



# Test Report: ELP-75-12

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75W Single Output with PFC Function

## ■ DESIGN VERIFY TEST

Output Function Test

Input Function Test

Protection Function Test

Component Stress Test

## ■ SAFETY & E.M.C. TEST

Safety Test

E.M.C. Test

## ■ RELIABILITY TEST

ENVIRONMENT TEST

## DESIGN VERIFY TEST

### OUTPUT FUNCTION TEST

| NO | TEST ITEM                      | SPECIFICATION                                   | TEST CONDITION                                                      | RESULT                                                       | VERDICT |
|----|--------------------------------|-------------------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------|---------|
| 1  | RIPPLE & NOISE                 | V1 : 120 mVp-p (Max )                           | I/P : 230VAC<br>O/P : FULL LOAD<br>Ta : 25°C                        | V1 : 20.4 mVp-p (Max )                                       | P       |
| 2  | OUTPUT VOLTAGE<br>ADJUST RANGE | CH1 : 10.8 V ~13.2 V                            | I/P : 230 VAC<br>I/P : 115 VAC<br>O/P : MIN LOAD<br>Ta : 25°C       | 10.505 V ~ 13.503 V/ 230 VAC<br>10.505 V ~ 13.502 V/ 115 VAC | P       |
| 3  | OUTPUT VOLTAGE<br>TOLERANCE    | V1 : 2 %~ -2 % (Max)                            | I/P : 100 VAC / 264 VAC<br>O/P : FULL/ MIN LOAD<br>Ta : 25°C        | V1 : 0.11 %~ -0.11 %                                         | P       |
| 4  | LINE REGULATION                | V1 : 0.5 %~ -0.5 % (Max)                        | I/P : 100 VAC ~ 264 VAC<br>O/P : FULL LOAD<br>Ta : 25°C             | V1 : 0.05 %~ -0.05 %                                         | P       |
| 5  | LOAD REGULATION                | V1 : 1 %~ -1 % (Max)                            | I/P : 230 VAC<br>O/P : FULL ~MIN LOAD<br>Ta : 25°C                  | V1 : 0.1 %~ -0.1 %                                           | P       |
| 6  | SET UP TIME                    | 230VAC : 2500 ms (Max)<br>115VAC : 2500 ms(Max) | I/P : 230 VAC<br>I/P : 115 VAC<br>O/P : FULL LOAD<br>Ta : 25°C      | 230VAC/ 644 ms<br>115VAC/ 1288 ms                            | P       |
| 7  | RISE TIME                      | 230VAC : 50 ms (Max)<br>115VAC : 50 ms (Max)    | I/P : 230 VAC<br>I/P : 115 VAC<br>O/P : FULL LOAD<br>Ta : 25°C      | 230VAC/ 15 ms<br>115VAC/ 14 ms                               | P       |
| 8  | HOLD UP TIME                   | 230VAC : 20 ms (TYP)<br>115VAC : 20 ms (TYP)    | I/P : 230 VAC<br>I/P : 115 VAC<br>O/P : FULL LOAD<br>Ta : 25°C      | 230VAC/ 88 ms<br>115VAC/ 31 ms                               | P       |
| 9  | OVER/UNDERSHOOT<br>TEST        | < ±5%                                           | I/P : 230 VAC<br>O/P : FULL LOAD<br>Ta : 25°C                       | TEST : <5 %                                                  | P       |
| 10 | DYNAMIC LOAD                   | V1 : 1200 mVp-p                                 | I/P : 230 VAC<br>O/P : FULL /Min LOAD 90%DUTY/<br>1KHZ<br>Ta : 25°C | 399 mVp-p                                                    | P       |

## INPUT FUNCTION TEST

| NO | TEST ITEM             | SPECIFICATION                              | TEST CONDITION                                                                                                                                                                                 | RESULT                                     | VERDICT |
|----|-----------------------|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|---------|
| 1  | INPUT VOLTAGE RANGE   | 90VAC~264 VAC                              | I/P : TESTING<br>O/P : FULL LOAD<br>Ta : 25°C<br>I/P :<br>LOW-LINE-3V= 87 V<br>HIGH-LINE+15%=300 V<br>O/P : FULL/MIN LOAD<br>ON : 30 Sec . OFF : 30 Sec 10MIN<br>( AC POWER ON/OFF NO DAMAGE ) | 79 V~264V<br><br>TEST : OK                 | P       |
| 2  | INPUT FREQUENCY RANGE | 47HZ ~63 HZ<br>NO DAMAGE OSC               | I/P : 100 VAC ~ 264 VAC<br>O/P : FULL~MIN LOAD<br>Ta : 25°C                                                                                                                                    | TEST : OK                                  | P       |
| 3  | POWER FACTOR          | 0.95 / 230 VAC(TYP)<br>0.98 / 115 VAC(TYP) | I/P : 230 VAC<br>I/P : 115 VAC<br>O/P : FULL LOAD<br>Ta : 25°C                                                                                                                                 | PF= 0.97 / 230 VAC<br>PF= 0.99 / 115 VAC   | P       |
| 4  | EFFICIENCY            | 89% (TYP)                                  | I/P : 230 VAC<br>O/P : FULL LOAD<br>Ta : 25°C                                                                                                                                                  | 90.68 %                                    | P       |
| 5  | INPUT CURRENT         | 230V/ 1 A (TYP)<br>115V/ 1.8 A (TYP)       | I/P : 230 VAC<br>I/P : 115 VAC<br>O/P : FULL LOAD<br>Ta : 25°C                                                                                                                                 | I = 0.37 A/ 230 VAC<br>I = 0.73 A/ 115 VAC | P       |
| 6  | INRUSH CURRENT        | 230V/ 60 A (TYP)<br><br>COLD START         | I/P : 230 VAC<br>I<br>O/P : FULL LOAD<br>Ta : 25°C                                                                                                                                             | I = 34 A/ 230 VAC                          | P       |
| 7  | LEAKAGE CURRENT       | < 1 mA / 240 VAC                           | I/P : 264 VAC<br>O/P : Min LOAD<br>Ta : 25°C                                                                                                                                                   | L-FG : 0.46 mA<br>N-FG : 0.44 mA           | P       |
| 8  | NO LOAD CONSUMPTION   | < 0.5W /230V<br>< 0.5W /115V               | I/P : 230VAC<br>I/P : 115VAC<br>O/P : Min LOAD<br>Ta : 25°C                                                                                                                                    | < 0.38 W<br>< 0.31 W                       | P       |

## PROTECTION FUNCTION TEST

| NO | TEST ITEM               | SPECIFICATION                          | TEST CONDITION                                                | RESULT                                                       | VERDICT |
|----|-------------------------|----------------------------------------|---------------------------------------------------------------|--------------------------------------------------------------|---------|
| 1  | OVER LOAD PROTECTION    | 105% ~ 135 %                           | I/P : 230 VAC<br>I/P : 115 VAC<br>O/P : TESTING<br>Ta : 25°C  | 124%/ 230 VAC<br>124%/ 115 VAC<br>Hiccup Mode                | P       |
| 2  | OVER VOLTAGE PROTECTION | CH1 : 13.8 V ~ 16.2 V                  | I/P : 230 VAC<br>I/P : 115 VAC<br>O/P : MIN LOAD<br>Ta : 25°C | 15.37V/ 230 VAC<br>15.37V/ 115 VAC<br>Shut down Re- power ON | P       |
| 3  | SHORT PROTECTION        | SHORT EVERY OUTPUT<br>1 HOUR NO DAMAGE | I/P : 264 VAC<br>O/P : FULL LOAD<br>Ta : 25°C                 | NO DAMAGE<br>Hiccup Mode                                     | P       |

## COMPONENT STRESS TEST

| NO | TEST ITEM                                              | SPECIFICATION                           | TEST CONDITION                                                                                                                               | RESULT                                    | VERDICT |
|----|--------------------------------------------------------|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|---------|
| 1  | Power Transistor<br>( D to S) or (C to E) Peak Voltage | Q 3 Rated :<br>STP10NK70ZFP 10A/700V    | I/P : High-Line +3V = 267 V<br>O/P : (1)Full Load Turn on<br>(2) Output Short<br>(3)Full load continue<br>Ta : 25°C                          | (1) 616 V<br>(2) 492 V<br>(3) 612 V       | P       |
| 2  | Diode Peak Voltage                                     | Q101 Rated :<br>IRFB3607PBF 80A/75V     | I/P : High-Line +3V = 267 V<br>O/P : (1)Full Load Turn on<br>(2)Output Short<br>(3)Full load continue<br>Ta : 25°C                           | (1) 74 V<br>(2) 74 V<br>(3) 66.4 V        | P       |
| 3  | Clamp Diode Peak Voltage                               | D 2 Rated :<br>3A/600V GP30J            | I/P : High-Line +3V = 267 V<br>O/P : (1) Dynamic Load<br>90%Duty/1KHz<br>(2)Full load continue<br>Ta : 25°C                                  | (1) 518 V<br>(2) 520 V                    | P       |
| 4  | Input Capacitor Voltage                                | C5 Rated :<br>100u/420V 105°C 18*30 PAG | I/P : High-Line +3V = 267 V<br>O/P : (1)Full Load Turn on /Off<br>(2) Min load Turn on /Off<br>(3)Full Load /Min load<br>Change<br>Ta : 25°C | (1) 386.8 V<br>(2) 380.9 V<br>(3) 380.6 V | P       |
| 5  | Control IC Voltage Test                                | U1 Rated :<br>PFC FAN6921MR 11V~30V     | I/P : High-Line +3V = 267 V<br>O/P : (1)Full Load Turn on /Off<br>(2) Min load Turn on /Off<br>(3)Full Load /Min load<br>Change<br>Ta : 25°C | (1) 20.86 V<br>(2) 20.75 V<br>(3) 20.77 V | P       |
| 6  | Power Transistor<br>( D to S) or (C to E) Peak Voltage | Q1 Rated :<br>2SK4106 12A/500V          | I/P : High-Line +3V = 267 V<br>O/P : (1)Full Load Turn on<br>(2) Output Short<br>(3)Full load continue<br>Ta : 25°C                          | (1) 468 V<br>(2) 396 V<br>(3) 428 V       | P       |

## ■ SAFETY & E.M.C. TEST

### SAFETY TEST

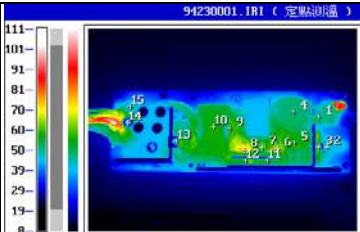
| NO | TEST ITEM            | SPECIFICATION                                                            | TEST CONDITION                                                                        | RESULT                                                                  | VERDICT |
|----|----------------------|--------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------|---------|
| 1  | WITHSTAND VOLTAGE    | I/P-O/P : 3 KVAC/min<br>I/P-FG : 1.5 KVAC/min<br>O/P-FG : 0.5 KVAC/min   | I/P-O/P : 3.6 KVAC/min<br>I/P-FG : 1.8 KVAC/min<br>O/P-FG : 0.6 KVAC/min<br>Ta : 25°C | I/P-O/P : 5.12 mA<br>I/P-FG : 1.801 mA<br>O/P-FG : 8.04 mA<br>NO DAMAGE | P       |
| 2  | ISOLATION RESISTANCE | I/P-O/P : 500VDC>100MΩ<br>I/P-FG : 500VDC>100MΩ<br>O/P-FG : 500VDC>100MΩ | I/P-O/P : 500 VDC<br>I/P-FG : 500 VDC<br>O/P-FG : 500 VDC<br>Ta : 25°C / 70%RH        | I/P-O/P : 30 GΩ<br>I/P-FG : 30 GΩ<br>O/P-FG : 30 GΩ<br>NO DAMAGE        | P       |
| 3  | GROUNDING CONTINUITY | FG(PE) TO CHASSIS<br>OR TRACE < 100 mΩ                                   | 40 A / 2min<br>Ta : 25°C / 70%RH                                                      | 11 mΩ                                                                   | P       |
| 4  | APPROVAL             | TUV : Certificate NO : R50175193<br>UL : File NO : E183223               |                                                                                       |                                                                         | P       |

### E.M.C TEST

| NO | TEST ITEM                                   | SPECIFICATION                                         | TEST CONDITION                                                      | RESULT                        | VERDICT |
|----|---------------------------------------------|-------------------------------------------------------|---------------------------------------------------------------------|-------------------------------|---------|
| 1  | HARMONIC                                    | EN61000-3-2<br>CLASS A<br>CLASS D                     | I/P : 230/240/220 VAC/50HZ<br>O/P : 100/75/50/25% LOAD<br>Ta : 25°C | PASS                          | P       |
| 2  | CONDUCTION                                  | EN55022<br>CLASS B                                    | I/P : 230 V (50HZ)/115V(60HZ)<br>O/P : FULL/50% LOAD<br>Ta : 25°C   | PASS<br>Test by certified Lab | P       |
| 3  | RADIATION                                   | EN55022<br>CLASS B                                    | I/P : 230 V (50HZ)/115V(60HZ)<br>O/P : FULL LOAD<br>Ta : 25°C       | PASS<br>Test by certified Lab | P       |
| 4  | E.S.D                                       | EN61000-4-2<br>INDUSTRY<br>AIR : 8KV / Contact : 4KV  | I/P : 230 VAC/50HZ<br>O/P : FULL LOAD<br>Ta : 25°C                  | CRITERIA A                    | P       |
| 5  | E.F.T                                       | EN61000-4-4<br>INDUSTRY<br>INPUT : 2KV                | I/P : 230 VAC/50HZ<br>O/P : FULL LOAD<br>Ta : 25°C                  | CRITERIA A                    | P       |
| 6  | SURGE                                       | IEC61000-4-5<br>INDUSTRY<br>L-N : 2KV<br>L,N-PE : 4KV | I/P : 230 VAC/50HZ<br>O/P : FULL LOAD<br>Ta : 25°C                  | CRITERIA A                    | P       |
| 7  | Test by certified Lab & Test Report Prepare |                                                       |                                                                     |                               |         |

## RELIABILITY TEST

### ENVIRONMENT TEST

| NO  | TEST ITEM                            | SPECIFICATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | TEST CONDITION              | RESULT                      | VERDICT |          |     |                             |                             |    |     |       |        |        |    |     |        |        |        |    |     |        |        |        |    |    |        |        |        |    |    |                  |        |        |    |    |                       |        |        |    |     |                |        |        |    |    |               |        |         |    |    |              |        |        |     |    |                           |        |        |     |     |                        |        |        |     |     |                      |        |        |     |      |                            |        |        |     |      |                            |        |        |     |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                         |        |        |    |      |                     |        |        |    |     |                      |        |        |    |    |               |        |        |   |
|-----|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------------------------|---------|----------|-----|-----------------------------|-----------------------------|----|-----|-------|--------|--------|----|-----|--------|--------|--------|----|-----|--------|--------|--------|----|----|--------|--------|--------|----|----|------------------|--------|--------|----|----|-----------------------|--------|--------|----|-----|----------------|--------|--------|----|----|---------------|--------|---------|----|----|--------------|--------|--------|-----|----|---------------------------|--------|--------|-----|-----|------------------------|--------|--------|-----|-----|----------------------|--------|--------|-----|------|----------------------------|--------|--------|-----|------|----------------------------|--------|--------|-----|------|---------------------------|--------|--------|----|------|---------------------------|--------|--------|----|------|---------------------------|--------|--------|----|------|---------------------------|--------|--------|----|------|---------------------------|--------|--------|----|------|-------------------------|--------|--------|----|------|---------------------|--------|--------|----|-----|----------------------|--------|--------|----|----|---------------|--------|--------|---|
| 1.  | THERMO TRACER TEST<br>(ROOM AMBIENT) | <div>MODEL:ELP-75-12    TEST CONDITION: 85V FULL LOAD    ROOM AMBIENT = 26.3 °C</div> <div><div><div><div>94230001.1R1 ( 定點測溫 )</div><div></div><div><div>p 1: 55.2°C 274x,104y</div><div>p 2: 51.6°C 204x,140y</div><div>p 3: 63.3°C 274x,140y</div><div>p 4: 55.9°C 244x, 98y</div><div>p 5: 61.1°C 245x,135y</div><div>p 6: 68.2°C 225x,142y</div><div>p 7: 64.9°C 207x,140y</div><div>p 8: 77.8°C 185x,143y</div><div>p 9: 66.3°C 168x,118y</div><div>p10: 60.9°C 149x,116y</div><div>p11: 57.7°C 213x,156y</div><div>p12: 65.2°C 187x,156y</div><div>p13: 51.2°C 105x,133y</div><div>p14: 55.6°C 47x,111y</div><div>p15: 51.2°C 50x, 92y</div></div></div></div><table><thead><tr><th></th><th>Position</th><th>P/N</th><th>Temp</th><th>VERDICT</th></tr></thead><tbody><tr><td>1.</td><td>LF1</td><td>TR790</td><td>55.2</td><td>PASS</td></tr><tr><td>2.</td><td>LF2</td><td>TR929</td><td>51.6</td><td>PASS</td></tr><tr><td>3.</td><td>BD1</td><td>GBU408</td><td>63.3</td><td>PASS</td></tr><tr><td>4.</td><td>L3</td><td>TF2083</td><td>55.9</td><td>PASS</td></tr><tr><td>5.</td><td>L1</td><td>TR928</td><td>61.1</td><td>PASS</td></tr><tr><td>6.</td><td>D1</td><td>MUR460</td><td>68.2</td><td>PASS</td></tr><tr><td>7.</td><td>R28</td><td>0.27R</td><td>64.9</td><td>PASS</td></tr><tr><td>8.</td><td>D2</td><td>GP20K</td><td>77.8</td><td>PASS</td></tr><tr><td>9.</td><td>T1</td><td>TF2086</td><td>66.3</td><td>PASS</td></tr><tr><td>10.</td><td>T1</td><td>TF2086</td><td>60.9</td><td>PASS</td></tr><tr><td>11.</td><td>Q1</td><td>2SK4106</td><td>57.7</td><td>PASS</td></tr><tr><td>12.</td><td>Q3</td><td>STP10NK70ZFP</td><td>65.2</td><td>PASS</td></tr><tr><td>13.</td><td>Q101</td><td>IRFB3607</td><td>51.6</td><td>PASS</td></tr><tr><td>14.</td><td>C111</td><td>470U/25V</td><td>55.6</td><td>PASS</td></tr><tr><td>15.</td><td>L100</td><td>RB019</td><td>51.2</td><td>PASS</td></tr></tbody></table></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                             |                             |         | Position | P/N | Temp                        | VERDICT                     | 1. | LF1 | TR790 | 55.2   | PASS   | 2. | LF2 | TR929  | 51.6   | PASS   | 3. | BD1 | GBU408 | 63.3   | PASS   | 4. | L3 | TF2083 | 55.9   | PASS   | 5. | L1 | TR928            | 61.1   | PASS   | 6. | D1 | MUR460                | 68.2   | PASS   | 7. | R28 | 0.27R          | 64.9   | PASS   | 8. | D2 | GP20K         | 77.8   | PASS    | 9. | T1 | TF2086       | 66.3   | PASS   | 10. | T1 | TF2086                    | 60.9   | PASS   | 11. | Q1  | 2SK4106                | 57.7   | PASS   | 12. | Q3  | STP10NK70ZFP         | 65.2   | PASS   | 13. | Q101 | IRFB3607                   | 51.6   | PASS   | 14. | C111 | 470U/25V                   | 55.6   | PASS   | 15. | L100 | RB019                     | 51.2   | PASS   | P  |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                         |        |        |    |      |                     |        |        |    |     |                      |        |        |    |    |               |        |        |   |
|     | Position                             | P/N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Temp                        | VERDICT                     |         |          |     |                             |                             |    |     |       |        |        |    |     |        |        |        |    |     |        |        |        |    |    |        |        |        |    |    |                  |        |        |    |    |                       |        |        |    |     |                |        |        |    |    |               |        |         |    |    |              |        |        |     |    |                           |        |        |     |     |                        |        |        |     |     |                      |        |        |     |      |                            |        |        |     |      |                            |        |        |     |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                         |        |        |    |      |                     |        |        |    |     |                      |        |        |    |    |               |        |        |   |
| 1.  | LF1                                  | TR790                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 55.2                        | PASS                        |         |          |     |                             |                             |    |     |       |        |        |    |     |        |        |        |    |     |        |        |        |    |    |        |        |        |    |    |                  |        |        |    |    |                       |        |        |    |     |                |        |        |    |    |               |        |         |    |    |              |        |        |     |    |                           |        |        |     |     |                        |        |        |     |     |                      |        |        |     |      |                            |        |        |     |      |                            |        |        |     |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                         |        |        |    |      |                     |        |        |    |     |                      |        |        |    |    |               |        |        |   |
| 2.  | LF2                                  | TR929                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 51.6                        | PASS                        |         |          |     |                             |                             |    |     |       |        |        |    |     |        |        |        |    |     |        |        |        |    |    |        |        |        |    |    |                  |        |        |    |    |                       |        |        |    |     |                |        |        |    |    |               |        |         |    |    |              |        |        |     |    |                           |        |        |     |     |                        |        |        |     |     |                      |        |        |     |      |                            |        |        |     |      |                            |        |        |     |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                         |        |        |    |      |                     |        |        |    |     |                      |        |        |    |    |               |        |        |   |
| 3.  | BD1                                  | GBU408                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 63.3                        | PASS                        |         |          |     |                             |                             |    |     |       |        |        |    |     |        |        |        |    |     |        |        |        |    |    |        |        |        |    |    |                  |        |        |    |    |                       |        |        |    |     |                |        |        |    |    |               |        |         |    |    |              |        |        |     |    |                           |        |        |     |     |                        |        |        |     |     |                      |        |        |     |      |                            |        |        |     |      |                            |        |        |     |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                         |        |        |    |      |                     |        |        |    |     |                      |        |        |    |    |               |        |        |   |
| 4.  | L3                                   | TF2083                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 55.9                        | PASS                        |         |          |     |                             |                             |    |     |       |        |        |    |     |        |        |        |    |     |        |        |        |    |    |        |        |        |    |    |                  |        |        |    |    |                       |        |        |    |     |                |        |        |    |    |               |        |         |    |    |              |        |        |     |    |                           |        |        |     |     |                        |        |        |     |     |                      |        |        |     |      |                            |        |        |     |      |                            |        |        |     |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                         |        |        |    |      |                     |        |        |    |     |                      |        |        |    |    |               |        |        |   |
| 5.  | L1                                   | TR928                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 61.1                        | PASS                        |         |          |     |                             |                             |    |     |       |        |        |    |     |        |        |        |    |     |        |        |        |    |    |        |        |        |    |    |                  |        |        |    |    |                       |        |        |    |     |                |        |        |    |    |               |        |         |    |    |              |        |        |     |    |                           |        |        |     |     |                        |        |        |     |     |                      |        |        |     |      |                            |        |        |     |      |                            |        |        |     |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                         |        |        |    |      |                     |        |        |    |     |                      |        |        |    |    |               |        |        |   |
| 6.  | D1                                   | MUR460                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 68.2                        | PASS                        |         |          |     |                             |                             |    |     |       |        |        |    |     |        |        |        |    |     |        |        |        |    |    |        |        |        |    |    |                  |        |        |    |    |                       |        |        |    |     |                |        |        |    |    |               |        |         |    |    |              |        |        |     |    |                           |        |        |     |     |                        |        |        |     |     |                      |        |        |     |      |                            |        |        |     |      |                            |        |        |     |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                         |        |        |    |      |                     |        |        |    |     |                      |        |        |    |    |               |        |        |   |
| 7.  | R28                                  | 0.27R                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 64.9                        | PASS                        |         |          |     |                             |                             |    |     |       |        |        |    |     |        |        |        |    |     |        |        |        |    |    |        |        |        |    |    |                  |        |        |    |    |                       |        |        |    |     |                |        |        |    |    |               |        |         |    |    |              |        |        |     |    |                           |        |        |     |     |                        |        |        |     |     |                      |        |        |     |      |                            |        |        |     |      |                            |        |        |     |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                         |        |        |    |      |                     |        |        |    |     |                      |        |        |    |    |               |        |        |   |
| 8.  | D2                                   | GP20K                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 77.8                        | PASS                        |         |          |     |                             |                             |    |     |       |        |        |    |     |        |        |        |    |     |        |        |        |    |    |        |        |        |    |    |                  |        |        |    |    |                       |        |        |    |     |                |        |        |    |    |               |        |         |    |    |              |        |        |     |    |                           |        |        |     |     |                        |        |        |     |     |                      |        |        |     |      |                            |        |        |     |      |                            |        |        |     |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                         |        |        |    |      |                     |        |        |    |     |                      |        |        |    |    |               |        |        |   |
| 9.  | T1                                   | TF2086                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 66.3                        | PASS                        |         |          |     |                             |                             |    |     |       |        |        |    |     |        |        |        |    |     |        |        |        |    |    |        |        |        |    |    |                  |        |        |    |    |                       |        |        |    |     |                |        |        |    |    |               |        |         |    |    |              |        |        |     |    |                           |        |        |     |     |                        |        |        |     |     |                      |        |        |     |      |                            |        |        |     |      |                            |        |        |     |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                         |        |        |    |      |                     |        |        |    |     |                      |        |        |    |    |               |        |        |   |
| 10. | T1                                   | TF2086                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 60.9                        | PASS                        |         |          |     |                             |                             |    |     |       |        |        |    |     |        |        |        |    |     |        |        |        |    |    |        |        |        |    |    |                  |        |        |    |    |                       |        |        |    |     |                |        |        |    |    |               |        |         |    |    |              |        |        |     |    |                           |        |        |     |     |                        |        |        |     |     |                      |        |        |     |      |                            |        |        |     |      |                            |        |        |     |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                         |        |        |    |      |                     |        |        |    |     |                      |        |        |    |    |               |        |        |   |
| 11. | Q1                                   | 2SK4106                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 57.7                        | PASS                        |         |          |     |                             |                             |    |     |       |        |        |    |     |        |        |        |    |     |        |        |        |    |    |        |        |        |    |    |                  |        |        |    |    |                       |        |        |    |     |                |        |        |    |    |               |        |         |    |    |              |        |        |     |    |                           |        |        |     |     |                        |        |        |     |     |                      |        |        |     |      |                            |        |        |     |      |                            |        |        |     |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                         |        |        |    |      |                     |        |        |    |     |                      |        |        |    |    |               |        |        |   |
| 12. | Q3                                   | STP10NK70ZFP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 65.2                        | PASS                        |         |          |     |                             |                             |    |     |       |        |        |    |     |        |        |        |    |     |        |        |        |    |    |        |        |        |    |    |                  |        |        |    |    |                       |        |        |    |     |                |        |        |    |    |               |        |         |    |    |              |        |        |     |    |                           |        |        |     |     |                        |        |        |     |     |                      |        |        |     |      |                            |        |        |     |      |                            |        |        |     |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                         |        |        |    |      |                     |        |        |    |     |                      |        |        |    |    |               |        |        |   |
| 13. | Q101                                 | IRFB3607                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 51.6                        | PASS                        |         |          |     |                             |                             |    |     |       |        |        |    |     |        |        |        |    |     |        |        |        |    |    |        |        |        |    |    |                  |        |        |    |    |                       |        |        |    |     |                |        |        |    |    |               |        |         |    |    |              |        |        |     |    |                           |        |        |     |     |                        |        |        |     |     |                      |        |        |     |      |                            |        |        |     |      |                            |        |        |     |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                         |        |        |    |      |                     |        |        |    |     |                      |        |        |    |    |               |        |        |   |
| 14. | C111                                 | 470U/25V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 55.6                        | PASS                        |         |          |     |                             |                             |    |     |       |        |        |    |     |        |        |        |    |     |        |        |        |    |    |        |        |        |    |    |                  |        |        |    |    |                       |        |        |    |     |                |        |        |    |    |               |        |         |    |    |              |        |        |     |    |                           |        |        |     |     |                        |        |        |     |     |                      |        |        |     |      |                            |        |        |     |      |                            |        |        |     |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                         |        |        |    |      |                     |        |        |    |     |                      |        |        |    |    |               |        |        |   |
| 15. | L100                                 | RB019                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 51.2                        | PASS                        |         |          |     |                             |                             |    |     |       |        |        |    |     |        |        |        |    |     |        |        |        |    |    |        |        |        |    |    |                  |        |        |    |    |                       |        |        |    |     |                |        |        |    |    |               |        |         |    |    |              |        |        |     |    |                           |        |        |     |     |                        |        |        |     |     |                      |        |        |     |      |                            |        |        |     |      |                            |        |        |     |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                         |        |        |    |      |                     |        |        |    |     |                      |        |        |    |    |               |        |        |   |
| 2   | TEMPERATURE RISE TEST                | <div>MODEL : ELP-75-12    PCB ONLY</div> <div>1. ROOM AMBIENT    BURN-IN : 1.5 HRS<br/>I/P : 230VAC    O/P : FULL LOAD    Ta= 28.9 °C</div> <div>2. HIGH AMBIENT    BURN-IN : 2.5 HRS<br/>I/P : 230VAC    O/P : FULL LOAD    Ta= 53.6 °C</div> <table><thead><tr><th>NO</th><th>Position</th><th>P/N</th><th>ROOM AMBIENT<br/>Ta= 28.9 °C</th><th>HIGH AMBIENT<br/>Ta= 53.6 °C</th></tr></thead><tbody><tr><td>1</td><td>LF2</td><td>TR929</td><td>41.0°C</td><td>62.5°C</td></tr><tr><td>2</td><td>L3</td><td>TF2083</td><td>51.0°C</td><td>72.6°C</td></tr><tr><td>3</td><td>L1</td><td>TR928</td><td>52.5°C</td><td>73.8°C</td></tr><tr><td>4</td><td>T1</td><td>TF2086</td><td>66.3°C</td><td>87.9°C</td></tr><tr><td>5</td><td>Q1</td><td>2SK4106 12A/500V</td><td>56.8°C</td><td>77.3°C</td></tr><tr><td>6</td><td>Q3</td><td>STP10NK70ZFP 10A/700V</td><td>59.0°C</td><td>80.4°C</td></tr><tr><td>7</td><td>D1</td><td>MUR460 4A/600V</td><td>64.7°C</td><td>84.4°C</td></tr><tr><td>8</td><td>D2</td><td>2A/800V GP20K</td><td>84.8°C</td><td>107.9°C</td></tr><tr><td>9</td><td>R9</td><td>TVS P6KE300A</td><td>68.7°C</td><td>90.2°C</td></tr><tr><td>10</td><td>C5</td><td>100u/420V 105°C 18*30 PAG</td><td>51.8°C</td><td>76.8°C</td></tr><tr><td>11</td><td>C61</td><td>33u/50V L5Kh 6.3*11 KY</td><td>56.4°C</td><td>80.7°C</td></tr><tr><td>12</td><td>C18</td><td>22u/50V L5Kh 5*11 KY</td><td>54.9°C</td><td>79.9°C</td></tr><tr><td>13</td><td>C150</td><td>100u/25V UL10Kh 6.3*11 YXM</td><td>43.8°C</td><td>68.3°C</td></tr><tr><td>14</td><td>C151</td><td>100u/25V UL10Kh 6.3*11 YXM</td><td>41.4°C</td><td>65.4°C</td></tr><tr><td>15</td><td>C105</td><td>820u/25V UL10Kh 10*20 ZLH</td><td>50.3°C</td><td>70.7°C</td></tr><tr><td>16</td><td>C106</td><td>820u/25V UL10Kh 10*20 ZLH</td><td>49.6°C</td><td>70.1°C</td></tr><tr><td>17</td><td>C107</td><td>820u/25V UL10Kh 10*20 ZLH</td><td>44.8°C</td><td>67.2°C</td></tr><tr><td>18</td><td>C109</td><td>820u/25V UL10Kh 10*20 ZLH</td><td>49.5°C</td><td>67.0°C</td></tr><tr><td>19</td><td>C110</td><td>820u/25V UL10Kh 10*20 ZLH</td><td>48.6°C</td><td>66.7°C</td></tr><tr><td>20</td><td>C111</td><td>470u/25V L7Kh 10*16 YXG</td><td>53.4°C</td><td>67.5°C</td></tr><tr><td>21</td><td>Q102</td><td>IRFB3607PBF 80A/75V</td><td>53.4°C</td><td>77.1°C</td></tr><tr><td>22</td><td>BD1</td><td>4A/800V GLASS GBU408</td><td>52.0°C</td><td>72.9°C</td></tr><tr><td>23</td><td>U1</td><td>PFC FAN6921MR</td><td>67.4°C</td><td>90.7°C</td></tr></tbody></table> |                             |                             | NO      | Position | P/N | ROOM AMBIENT<br>Ta= 28.9 °C | HIGH AMBIENT<br>Ta= 53.6 °C | 1  | LF2 | TR929 | 41.0°C | 62.5°C | 2  | L3  | TF2083 | 51.0°C | 72.6°C | 3  | L1  | TR928  | 52.5°C | 73.8°C | 4  | T1 | TF2086 | 66.3°C | 87.9°C | 5  | Q1 | 2SK4106 12A/500V | 56.8°C | 77.3°C | 6  | Q3 | STP10NK70ZFP 10A/700V | 59.0°C | 80.4°C | 7  | D1  | MUR460 4A/600V | 64.7°C | 84.4°C | 8  | D2 | 2A/800V GP20K | 84.8°C | 107.9°C | 9  | R9 | TVS P6KE300A | 68.7°C | 90.2°C | 10  | C5 | 100u/420V 105°C 18*30 PAG | 51.8°C | 76.8°C | 11  | C61 | 33u/50V L5Kh 6.3*11 KY | 56.4°C | 80.7°C | 12  | C18 | 22u/50V L5Kh 5*11 KY | 54.9°C | 79.9°C | 13  | C150 | 100u/25V UL10Kh 6.3*11 YXM | 43.8°C | 68.3°C | 14  | C151 | 100u/25V UL10Kh 6.3*11 YXM | 41.4°C | 65.4°C | 15  | C105 | 820u/25V UL10Kh 10*20 ZLH | 50.3°C | 70.7°C | 16 | C106 | 820u/25V UL10Kh 10*20 ZLH | 49.6°C | 70.1°C | 17 | C107 | 820u/25V UL10Kh 10*20 ZLH | 44.8°C | 67.2°C | 18 | C109 | 820u/25V UL10Kh 10*20 ZLH | 49.5°C | 67.0°C | 19 | C110 | 820u/25V UL10Kh 10*20 ZLH | 48.6°C | 66.7°C | 20 | C111 | 470u/25V L7Kh 10*16 YXG | 53.4°C | 67.5°C | 21 | Q102 | IRFB3607PBF 80A/75V | 53.4°C | 77.1°C | 22 | BD1 | 4A/800V GLASS GBU408 | 52.0°C | 72.9°C | 23 | U1 | PFC FAN6921MR | 67.4°C | 90.7°C | P |
| NO  | Position                             | P/N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ROOM AMBIENT<br>Ta= 28.9 °C | HIGH AMBIENT<br>Ta= 53.6 °C |         |          |     |                             |                             |    |     |       |        |        |    |     |        |        |        |    |     |        |        |        |    |    |        |        |        |    |    |                  |        |        |    |    |                       |        |        |    |     |                |        |        |    |    |               |        |         |    |    |              |        |        |     |    |                           |        |        |     |     |                        |        |        |     |     |                      |        |        |     |      |                            |        |        |     |      |                            |        |        |     |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                         |        |        |    |      |                     |        |        |    |     |                      |        |        |    |    |               |        |        |   |
| 1   | LF2                                  | TR929                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 41.0°C                      | 62.5°C                      |         |          |     |                             |                             |    |     |       |        |        |    |     |        |        |        |    |     |        |        |        |    |    |        |        |        |    |    |                  |        |        |    |    |                       |        |        |    |     |                |        |        |    |    |               |        |         |    |    |              |        |        |     |    |                           |        |        |     |     |                        |        |        |     |     |                      |        |        |     |      |                            |        |        |     |      |                            |        |        |     |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                         |        |        |    |      |                     |        |        |    |     |                      |        |        |    |    |               |        |        |   |
| 2   | L3                                   | TF2083                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 51.0°C                      | 72.6°C                      |         |          |     |                             |                             |    |     |       |        |        |    |     |        |        |        |    |     |        |        |        |    |    |        |        |        |    |    |                  |        |        |    |    |                       |        |        |    |     |                |        |        |    |    |               |        |         |    |    |              |        |        |     |    |                           |        |        |     |     |                        |        |        |     |     |                      |        |        |     |      |                            |        |        |     |      |                            |        |        |     |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                         |        |        |    |      |                     |        |        |    |     |                      |        |        |    |    |               |        |        |   |
| 3   | L1                                   | TR928                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 52.5°C                      | 73.8°C                      |         |          |     |                             |                             |    |     |       |        |        |    |     |        |        |        |    |     |        |        |        |    |    |        |        |        |    |    |                  |        |        |    |    |                       |        |        |    |     |                |        |        |    |    |               |        |         |    |    |              |        |        |     |    |                           |        |        |     |     |                        |        |        |     |     |                      |        |        |     |      |                            |        |        |     |      |                            |        |        |     |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                         |        |        |    |      |                     |        |        |    |     |                      |        |        |    |    |               |        |        |   |
| 4   | T1                                   | TF2086                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 66.3°C                      | 87.9°C                      |         |          |     |                             |                             |    |     |       |        |        |    |     |        |        |        |    |     |        |        |        |    |    |        |        |        |    |    |                  |        |        |    |    |                       |        |        |    |     |                |        |        |    |    |               |        |         |    |    |              |        |        |     |    |                           |        |        |     |     |                        |        |        |     |     |                      |        |        |     |      |                            |        |        |     |      |                            |        |        |     |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                         |        |        |    |      |                     |        |        |    |     |                      |        |        |    |    |               |        |        |   |
| 5   | Q1                                   | 2SK4106 12A/500V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 56.8°C                      | 77.3°C                      |         |          |     |                             |                             |    |     |       |        |        |    |     |        |        |        |    |     |        |        |        |    |    |        |        |        |    |    |                  |        |        |    |    |                       |        |        |    |     |                |        |        |    |    |               |        |         |    |    |              |        |        |     |    |                           |        |        |     |     |                        |        |        |     |     |                      |        |        |     |      |                            |        |        |     |      |                            |        |        |     |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                         |        |        |    |      |                     |        |        |    |     |                      |        |        |    |    |               |        |        |   |
| 6   | Q3                                   | STP10NK70ZFP 10A/700V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 59.0°C                      | 80.4°C                      |         |          |     |                             |                             |    |     |       |        |        |    |     |        |        |        |    |     |        |        |        |    |    |        |        |        |    |    |                  |        |        |    |    |                       |        |        |    |     |                |        |        |    |    |               |        |         |    |    |              |        |        |     |    |                           |        |        |     |     |                        |        |        |     |     |                      |        |        |     |      |                            |        |        |     |      |                            |        |        |     |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                         |        |        |    |      |                     |        |        |    |     |                      |        |        |    |    |               |        |        |   |
| 7   | D1                                   | MUR460 4A/600V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 64.7°C                      | 84.4°C                      |         |          |     |                             |                             |    |     |       |        |        |    |     |        |        |        |    |     |        |        |        |    |    |        |        |        |    |    |                  |        |        |    |    |                       |        |        |    |     |                |        |        |    |    |               |        |         |    |    |              |        |        |     |    |                           |        |        |     |     |                        |        |        |     |     |                      |        |        |     |      |                            |        |        |     |      |                            |        |        |     |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                         |        |        |    |      |                     |        |        |    |     |                      |        |        |    |    |               |        |        |   |
| 8   | D2                                   | 2A/800V GP20K                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 84.8°C                      | 107.9°C                     |         |          |     |                             |                             |    |     |       |        |        |    |     |        |        |        |    |     |        |        |        |    |    |        |        |        |    |    |                  |        |        |    |    |                       |        |        |    |     |                |        |        |    |    |               |        |         |    |    |              |        |        |     |    |                           |        |        |     |     |                        |        |        |     |     |                      |        |        |     |      |                            |        |        |     |      |                            |        |        |     |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                         |        |        |    |      |                     |        |        |    |     |                      |        |        |    |    |               |        |        |   |
| 9   | R9                                   | TVS P6KE300A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 68.7°C                      | 90.2°C                      |         |          |     |                             |                             |    |     |       |        |        |    |     |        |        |        |    |     |        |        |        |    |    |        |        |        |    |    |                  |        |        |    |    |                       |        |        |    |     |                |        |        |    |    |               |        |         |    |    |              |        |        |     |    |                           |        |        |     |     |                        |        |        |     |     |                      |        |        |     |      |                            |        |        |     |      |                            |        |        |     |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                         |        |        |    |      |                     |        |        |    |     |                      |        |        |    |    |               |        |        |   |
| 10  | C5                                   | 100u/420V 105°C 18*30 PAG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 51.8°C                      | 76.8°C                      |         |          |     |                             |                             |    |     |       |        |        |    |     |        |        |        |    |     |        |        |        |    |    |        |        |        |    |    |                  |        |        |    |    |                       |        |        |    |     |                |        |        |    |    |               |        |         |    |    |              |        |        |     |    |                           |        |        |     |     |                        |        |        |     |     |                      |        |        |     |      |                            |        |        |     |      |                            |        |        |     |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                         |        |        |    |      |                     |        |        |    |     |                      |        |        |    |    |               |        |        |   |
| 11  | C61                                  | 33u/50V L5Kh 6.3*11 KY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 56.4°C                      | 80.7°C                      |         |          |     |                             |                             |    |     |       |        |        |    |     |        |        |        |    |     |        |        |        |    |    |        |        |        |    |    |                  |        |        |    |    |                       |        |        |    |     |                |        |        |    |    |               |        |         |    |    |              |        |        |     |    |                           |        |        |     |     |                        |        |        |     |     |                      |        |        |     |      |                            |        |        |     |      |                            |        |        |     |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                         |        |        |    |      |                     |        |        |    |     |                      |        |        |    |    |               |        |        |   |
| 12  | C18                                  | 22u/50V L5Kh 5*11 KY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 54.9°C                      | 79.9°C                      |         |          |     |                             |                             |    |     |       |        |        |    |     |        |        |        |    |     |        |        |        |    |    |        |        |        |    |    |                  |        |        |    |    |                       |        |        |    |     |                |        |        |    |    |               |        |         |    |    |              |        |        |     |    |                           |        |        |     |     |                        |        |        |     |     |                      |        |        |     |      |                            |        |        |     |      |                            |        |        |     |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                         |        |        |    |      |                     |        |        |    |     |                      |        |        |    |    |               |        |        |   |
| 13  | C150                                 | 100u/25V UL10Kh 6.3*11 YXM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 43.8°C                      | 68.3°C                      |         |          |     |                             |                             |    |     |       |        |        |    |     |        |        |        |    |     |        |        |        |    |    |        |        |        |    |    |                  |        |        |    |    |                       |        |        |    |     |                |        |        |    |    |               |        |         |    |    |              |        |        |     |    |                           |        |        |     |     |                        |        |        |     |     |                      |        |        |     |      |                            |        |        |     |      |                            |        |        |     |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                         |        |        |    |      |                     |        |        |    |     |                      |        |        |    |    |               |        |        |   |
| 14  | C151                                 | 100u/25V UL10Kh 6.3*11 YXM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 41.4°C                      | 65.4°C                      |         |          |     |                             |                             |    |     |       |        |        |    |     |        |        |        |    |     |        |        |        |    |    |        |        |        |    |    |                  |        |        |    |    |                       |        |        |    |     |                |        |        |    |    |               |        |         |    |    |              |        |        |     |    |                           |        |        |     |     |                        |        |        |     |     |                      |        |        |     |      |                            |        |        |     |      |                            |        |        |     |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                         |        |        |    |      |                     |        |        |    |     |                      |        |        |    |    |               |        |        |   |
| 15  | C105                                 | 820u/25V UL10Kh 10*20 ZLH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 50.3°C                      | 70.7°C                      |         |          |     |                             |                             |    |     |       |        |        |    |     |        |        |        |    |     |        |        |        |    |    |        |        |        |    |    |                  |        |        |    |    |                       |        |        |    |     |                |        |        |    |    |               |        |         |    |    |              |        |        |     |    |                           |        |        |     |     |                        |        |        |     |     |                      |        |        |     |      |                            |        |        |     |      |                            |        |        |     |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                         |        |        |    |      |                     |        |        |    |     |                      |        |        |    |    |               |        |        |   |
| 16  | C106                                 | 820u/25V UL10Kh 10*20 ZLH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 49.6°C                      | 70.1°C                      |         |          |     |                             |                             |    |     |       |        |        |    |     |        |        |        |    |     |        |        |        |    |    |        |        |        |    |    |                  |        |        |    |    |                       |        |        |    |     |                |        |        |    |    |               |        |         |    |    |              |        |        |     |    |                           |        |        |     |     |                        |        |        |     |     |                      |        |        |     |      |                            |        |        |     |      |                            |        |        |     |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                         |        |        |    |      |                     |        |        |    |     |                      |        |        |    |    |               |        |        |   |
| 17  | C107                                 | 820u/25V UL10Kh 10*20 ZLH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 44.8°C                      | 67.2°C                      |         |          |     |                             |                             |    |     |       |        |        |    |     |        |        |        |    |     |        |        |        |    |    |        |        |        |    |    |                  |        |        |    |    |                       |        |        |    |     |                |        |        |    |    |               |        |         |    |    |              |        |        |     |    |                           |        |        |     |     |                        |        |        |     |     |                      |        |        |     |      |                            |        |        |     |      |                            |        |        |     |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                         |        |        |    |      |                     |        |        |    |     |                      |        |        |    |    |               |        |        |   |
| 18  | C109                                 | 820u/25V UL10Kh 10*20 ZLH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 49.5°C                      | 67.0°C                      |         |          |     |                             |                             |    |     |       |        |        |    |     |        |        |        |    |     |        |        |        |    |    |        |        |        |    |    |                  |        |        |    |    |                       |        |        |    |     |                |        |        |    |    |               |        |         |    |    |              |        |        |     |    |                           |        |        |     |     |                        |        |        |     |     |                      |        |        |     |      |                            |        |        |     |      |                            |        |        |     |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                         |        |        |    |      |                     |        |        |    |     |                      |        |        |    |    |               |        |        |   |
| 19  | C110                                 | 820u/25V UL10Kh 10*20 ZLH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 48.6°C                      | 66.7°C                      |         |          |     |                             |                             |    |     |       |        |        |    |     |        |        |        |    |     |        |        |        |    |    |        |        |        |    |    |                  |        |        |    |    |                       |        |        |    |     |                |        |        |    |    |               |        |         |    |    |              |        |        |     |    |                           |        |        |     |     |                        |        |        |     |     |                      |        |        |     |      |                            |        |        |     |      |                            |        |        |     |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                         |        |        |    |      |                     |        |        |    |     |                      |        |        |    |    |               |        |        |   |
| 20  | C111                                 | 470u/25V L7Kh 10*16 YXG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 53.4°C                      | 67.5°C                      |         |          |     |                             |                             |    |     |       |        |        |    |     |        |        |        |    |     |        |        |        |    |    |        |        |        |    |    |                  |        |        |    |    |                       |        |        |    |     |                |        |        |    |    |               |        |         |    |    |              |        |        |     |    |                           |        |        |     |     |                        |        |        |     |     |                      |        |        |     |      |                            |        |        |     |      |                            |        |        |     |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                         |        |        |    |      |                     |        |        |    |     |                      |        |        |    |    |               |        |        |   |
| 21  | Q102                                 | IRFB3607PBF 80A/75V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 53.4°C                      | 77.1°C                      |         |          |     |                             |                             |    |     |       |        |        |    |     |        |        |        |    |     |        |        |        |    |    |        |        |        |    |    |                  |        |        |    |    |                       |        |        |    |     |                |        |        |    |    |               |        |         |    |    |              |        |        |     |    |                           |        |        |     |     |                        |        |        |     |     |                      |        |        |     |      |                            |        |        |     |      |                            |        |        |     |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                         |        |        |    |      |                     |        |        |    |     |                      |        |        |    |    |               |        |        |   |
| 22  | BD1                                  | 4A/800V GLASS GBU408                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 52.0°C                      | 72.9°C                      |         |          |     |                             |                             |    |     |       |        |        |    |     |        |        |        |    |     |        |        |        |    |    |        |        |        |    |    |                  |        |        |    |    |                       |        |        |    |     |                |        |        |    |    |               |        |         |    |    |              |        |        |     |    |                           |        |        |     |     |                        |        |        |     |     |                      |        |        |     |      |                            |        |        |     |      |                            |        |        |     |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                         |        |        |    |      |                     |        |        |    |     |                      |        |        |    |    |               |        |        |   |
| 23  | U1                                   | PFC FAN6921MR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 67.4°C                      | 90.7°C                      |         |          |     |                             |                             |    |     |       |        |        |    |     |        |        |        |    |     |        |        |        |    |    |        |        |        |    |    |                  |        |        |    |    |                       |        |        |    |     |                |        |        |    |    |               |        |         |    |    |              |        |        |     |    |                           |        |        |     |     |                        |        |        |     |     |                      |        |        |     |      |                            |        |        |     |      |                            |        |        |     |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                         |        |        |    |      |                     |        |        |    |     |                      |        |        |    |    |               |        |        |   |

|    |                                                                   | MODEL : ELP-75-12 WITH CASE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                    |                             |    |          |     |                             |                             |   |     |       |        |        |   |    |        |        |        |   |    |       |        |        |   |    |        |        |        |   |    |                  |        |        |   |    |                       |        |        |   |    |                |        |        |   |    |               |        |        |   |    |              |        |        |    |    |                           |        |        |    |     |                        |        |        |    |     |                      |        |        |    |      |                            |        |        |    |      |                            |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                         |        |        |    |      |                     |        |        |    |     |                      |        |        |    |    |               |        |        |  |
|----|-------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|-----------------------------|----|----------|-----|-----------------------------|-----------------------------|---|-----|-------|--------|--------|---|----|--------|--------|--------|---|----|-------|--------|--------|---|----|--------|--------|--------|---|----|------------------|--------|--------|---|----|-----------------------|--------|--------|---|----|----------------|--------|--------|---|----|---------------|--------|--------|---|----|--------------|--------|--------|----|----|---------------------------|--------|--------|----|-----|------------------------|--------|--------|----|-----|----------------------|--------|--------|----|------|----------------------------|--------|--------|----|------|----------------------------|--------|--------|----|------|---------------------------|--------|--------|----|------|---------------------------|--------|--------|----|------|---------------------------|--------|--------|----|------|---------------------------|--------|--------|----|------|---------------------------|--------|--------|----|------|-------------------------|--------|--------|----|------|---------------------|--------|--------|----|-----|----------------------|--------|--------|----|----|---------------|--------|--------|--|
|    |                                                                   | 1. ROOM AMBIENT BURN-IN : 12 HRS<br>I/P : 230VAC O/P : FULL LOAD Ta= 27.1 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                    |                             |    |          |     |                             |                             |   |     |       |        |        |   |    |        |        |        |   |    |       |        |        |   |    |        |        |        |   |    |                  |        |        |   |    |                       |        |        |   |    |                |        |        |   |    |               |        |        |   |    |              |        |        |    |    |                           |        |        |    |     |                        |        |        |    |     |                      |        |        |    |      |                            |        |        |    |      |                            |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                         |        |        |    |      |                     |        |        |    |     |                      |        |        |    |    |               |        |        |  |
|    |                                                                   | 2. HIGH AMBIENT BURN-IN : 2 HRS<br>I/P : 230VAC O/P : FULL LOAD Ta= 51.1 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                    |                             |    |          |     |                             |                             |   |     |       |        |        |   |    |        |        |        |   |    |       |        |        |   |    |        |        |        |   |    |                  |        |        |   |    |                       |        |        |   |    |                |        |        |   |    |               |        |        |   |    |              |        |        |    |    |                           |        |        |    |     |                        |        |        |    |     |                      |        |        |    |      |                            |        |        |    |      |                            |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                         |        |        |    |      |                     |        |        |    |     |                      |        |        |    |    |               |        |        |  |
|    |                                                                   | <table><tr><th>NO</th><th>Position</th><th>P/N</th><th>ROOM AMBIENT<br/>Ta= 27.1 °C</th><th>HIGH AMBIENT<br/>Ta= 51.1 °C</th></tr><tr><td>1</td><td>LF2</td><td>TR929</td><td>43.7°C</td><td>63.5°C</td></tr><tr><td>2</td><td>L3</td><td>TF2083</td><td>54.9°C</td><td>74.0°C</td></tr><tr><td>3</td><td>L1</td><td>TR928</td><td>51.8°C</td><td>71.6°C</td></tr><tr><td>4</td><td>T1</td><td>TF2086</td><td>68.9°C</td><td>88.4°C</td></tr><tr><td>5</td><td>Q1</td><td>2SK4106 12A/500V</td><td>51.5°C</td><td>72.4°C</td></tr><tr><td>6</td><td>Q3</td><td>STP10NK70ZFP 10A/700V</td><td>55.9°C</td><td>77.2°C</td></tr><tr><td>7</td><td>D1</td><td>MUR460 4A/600V</td><td>60.1°C</td><td>80.4°C</td></tr><tr><td>8</td><td>D2</td><td>2A/800V GP20K</td><td>74.8°C</td><td>97.1°C</td></tr><tr><td>9</td><td>R9</td><td>TVS P6KE300A</td><td>70.8°C</td><td>91.8°C</td></tr><tr><td>10</td><td>C5</td><td>100u/420V 105°C 18*30 PAG</td><td>54.9°C</td><td>75.6°C</td></tr><tr><td>11</td><td>C61</td><td>33u/50V L5Kh 6.3*11 KY</td><td>53.9°C</td><td>75.1°C</td></tr><tr><td>12</td><td>C18</td><td>22u/50V L5Kh 5*11 KY</td><td>54.6°C</td><td>75.9°C</td></tr><tr><td>13</td><td>C150</td><td>100u/25V UL10Kh 6.3*11 YXM</td><td>46.6°C</td><td>67.7°C</td></tr><tr><td>14</td><td>C151</td><td>100u/25V UL10Kh 6.3*11 YXM</td><td>44.1°C</td><td>66.0°C</td></tr><tr><td>15</td><td>C105</td><td>820u/25V UL10Kh 10*20 ZLH</td><td>47.6°C</td><td>69.3°C</td></tr><tr><td>16</td><td>C106</td><td>820u/25V UL10Kh 10*20 ZLH</td><td>48.5°C</td><td>69.9°C</td></tr><tr><td>17</td><td>C107</td><td>820u/25V UL10Kh 10*20 ZLH</td><td>47.1°C</td><td>69.1°C</td></tr><tr><td>18</td><td>C109</td><td>820u/25V UL10Kh 10*20 ZLH</td><td>46.6°C</td><td>68.1°C</td></tr><tr><td>19</td><td>C110</td><td>820u/25V UL10Kh 10*20 ZLH</td><td>45.8°C</td><td>67.6°C</td></tr><tr><td>20</td><td>C111</td><td>470u/25V L7Kh 10*16 YXG</td><td>44.4°C</td><td>66.4°C</td></tr><tr><td>21</td><td>Q102</td><td>IRFB3607PBF 80A/75V</td><td>53.8°C</td><td>74.9°C</td></tr><tr><td>22</td><td>BD1</td><td>4A/800V GLASS GBU408</td><td>48.2°C</td><td>68.4°C</td></tr><tr><td>23</td><td>U1</td><td>PFC FAN6921MR</td><td>67.3°C</td><td>88.1°C</td></tr></table> |                                                                    |                             | NO | Position | P/N | ROOM AMBIENT<br>Ta= 27.1 °C | HIGH AMBIENT<br>Ta= 51.1 °C | 1 | LF2 | TR929 | 43.7°C | 63.5°C | 2 | L3 | TF2083 | 54.9°C | 74.0°C | 3 | L1 | TR928 | 51.8°C | 71.6°C | 4 | T1 | TF2086 | 68.9°C | 88.4°C | 5 | Q1 | 2SK4106 12A/500V | 51.5°C | 72.4°C | 6 | Q3 | STP10NK70ZFP 10A/700V | 55.9°C | 77.2°C | 7 | D1 | MUR460 4A/600V | 60.1°C | 80.4°C | 8 | D2 | 2A/800V GP20K | 74.8°C | 97.1°C | 9 | R9 | TVS P6KE300A | 70.8°C | 91.8°C | 10 | C5 | 100u/420V 105°C 18*30 PAG | 54.9°C | 75.6°C | 11 | C61 | 33u/50V L5Kh 6.3*11 KY | 53.9°C | 75.1°C | 12 | C18 | 22u/50V L5Kh 5*11 KY | 54.6°C | 75.9°C | 13 | C150 | 100u/25V UL10Kh 6.3*11 YXM | 46.6°C | 67.7°C | 14 | C151 | 100u/25V UL10Kh 6.3*11 YXM | 44.1°C | 66.0°C | 15 | C105 | 820u/25V UL10Kh 10*20 ZLH | 47.6°C | 69.3°C | 16 | C106 | 820u/25V UL10Kh 10*20 ZLH | 48.5°C | 69.9°C | 17 | C107 | 820u/25V UL10Kh 10*20 ZLH | 47.1°C | 69.1°C | 18 | C109 | 820u/25V UL10Kh 10*20 ZLH | 46.6°C | 68.1°C | 19 | C110 | 820u/25V UL10Kh 10*20 ZLH | 45.8°C | 67.6°C | 20 | C111 | 470u/25V L7Kh 10*16 YXG | 44.4°C | 66.4°C | 21 | Q102 | IRFB3607PBF 80A/75V | 53.8°C | 74.9°C | 22 | BD1 | 4A/800V GLASS GBU408 | 48.2°C | 68.4°C | 23 | U1 | PFC FAN6921MR | 67.3°C | 88.1°C |  |
| NO | Position                                                          | P/N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ROOM AMBIENT<br>Ta= 27.1 °C                                        | HIGH AMBIENT<br>Ta= 51.1 °C |    |          |     |                             |                             |   |     |       |        |        |   |    |        |        |        |   |    |       |        |        |   |    |        |        |        |   |    |                  |        |        |   |    |                       |        |        |   |    |                |        |        |   |    |               |        |        |   |    |              |        |        |    |    |                           |        |        |    |     |                        |        |        |    |     |                      |        |        |    |      |                            |        |        |    |      |                            |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                         |        |        |    |      |                     |        |        |    |     |                      |        |        |    |    |               |        |        |  |
| 1  | LF2                                                               | TR929                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 43.7°C                                                             | 63.5°C                      |    |          |     |                             |                             |   |     |       |        |        |   |    |        |        |        |   |    |       |        |        |   |    |        |        |        |   |    |                  |        |        |   |    |                       |        |        |   |    |                |        |        |   |    |               |        |        |   |    |              |        |        |    |    |                           |        |        |    |     |                        |        |        |    |     |                      |        |        |    |      |                            |        |        |    |      |                            |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                         |        |        |    |      |                     |        |        |    |     |                      |        |        |    |    |               |        |        |  |
| 2  | L3                                                                | TF2083                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 54.9°C                                                             | 74.0°C                      |    |          |     |                             |                             |   |     |       |        |        |   |    |        |        |        |   |    |       |        |        |   |    |        |        |        |   |    |                  |        |        |   |    |                       |        |        |   |    |                |        |        |   |    |               |        |        |   |    |              |        |        |    |    |                           |        |        |    |     |                        |        |        |    |     |                      |        |        |    |      |                            |        |        |    |      |                            |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                         |        |        |    |      |                     |        |        |    |     |                      |        |        |    |    |               |        |        |  |
| 3  | L1                                                                | TR928                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 51.8°C                                                             | 71.6°C                      |    |          |     |                             |                             |   |     |       |        |        |   |    |        |        |        |   |    |       |        |        |   |    |        |        |        |   |    |                  |        |        |   |    |                       |        |        |   |    |                |        |        |   |    |               |        |        |   |    |              |        |        |    |    |                           |        |        |    |     |                        |        |        |    |     |                      |        |        |    |      |                            |        |        |    |      |                            |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                         |        |        |    |      |                     |        |        |    |     |                      |        |        |    |    |               |        |        |  |
| 4  | T1                                                                | TF2086                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 68.9°C                                                             | 88.4°C                      |    |          |     |                             |                             |   |     |       |        |        |   |    |        |        |        |   |    |       |        |        |   |    |        |        |        |   |    |                  |        |        |   |    |                       |        |        |   |    |                |        |        |   |    |               |        |        |   |    |              |        |        |    |    |                           |        |        |    |     |                        |        |        |    |     |                      |        |        |    |      |                            |        |        |    |      |                            |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                         |        |        |    |      |                     |        |        |    |     |                      |        |        |    |    |               |        |        |  |
| 5  | Q1                                                                | 2SK4106 12A/500V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 51.5°C                                                             | 72.4°C                      |    |          |     |                             |                             |   |     |       |        |        |   |    |        |        |        |   |    |       |        |        |   |    |        |        |        |   |    |                  |        |        |   |    |                       |        |        |   |    |                |        |        |   |    |               |        |        |   |    |              |        |        |    |    |                           |        |        |    |     |                        |        |        |    |     |                      |        |        |    |      |                            |        |        |    |      |                            |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                         |        |        |    |      |                     |        |        |    |     |                      |        |        |    |    |               |        |        |  |
| 6  | Q3                                                                | STP10NK70ZFP 10A/700V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 55.9°C                                                             | 77.2°C                      |    |          |     |                             |                             |   |     |       |        |        |   |    |        |        |        |   |    |       |        |        |   |    |        |        |        |   |    |                  |        |        |   |    |                       |        |        |   |    |                |        |        |   |    |               |        |        |   |    |              |        |        |    |    |                           |        |        |    |     |                        |        |        |    |     |                      |        |        |    |      |                            |        |        |    |      |                            |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                         |        |        |    |      |                     |        |        |    |     |                      |        |        |    |    |               |        |        |  |
| 7  | D1                                                                | MUR460 4A/600V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 60.1°C                                                             | 80.4°C                      |    |          |     |                             |                             |   |     |       |        |        |   |    |        |        |        |   |    |       |        |        |   |    |        |        |        |   |    |                  |        |        |   |    |                       |        |        |   |    |                |        |        |   |    |               |        |        |   |    |              |        |        |    |    |                           |        |        |    |     |                        |        |        |    |     |                      |        |        |    |      |                            |        |        |    |      |                            |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                         |        |        |    |      |                     |        |        |    |     |                      |        |        |    |    |               |        |        |  |
| 8  | D2                                                                | 2A/800V GP20K                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 74.8°C                                                             | 97.1°C                      |    |          |     |                             |                             |   |     |       |        |        |   |    |        |        |        |   |    |       |        |        |   |    |        |        |        |   |    |                  |        |        |   |    |                       |        |        |   |    |                |        |        |   |    |               |        |        |   |    |              |        |        |    |    |                           |        |        |    |     |                        |        |        |    |     |                      |        |        |    |      |                            |        |        |    |      |                            |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                         |        |        |    |      |                     |        |        |    |     |                      |        |        |    |    |               |        |        |  |
| 9  | R9                                                                | TVS P6KE300A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 70.8°C                                                             | 91.8°C                      |    |          |     |                             |                             |   |     |       |        |        |   |    |        |        |        |   |    |       |        |        |   |    |        |        |        |   |    |                  |        |        |   |    |                       |        |        |   |    |                |        |        |   |    |               |        |        |   |    |              |        |        |    |    |                           |        |        |    |     |                        |        |        |    |     |                      |        |        |    |      |                            |        |        |    |      |                            |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                         |        |        |    |      |                     |        |        |    |     |                      |        |        |    |    |               |        |        |  |
| 10 | C5                                                                | 100u/420V 105°C 18*30 PAG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 54.9°C                                                             | 75.6°C                      |    |          |     |                             |                             |   |     |       |        |        |   |    |        |        |        |   |    |       |        |        |   |    |        |        |        |   |    |                  |        |        |   |    |                       |        |        |   |    |                |        |        |   |    |               |        |        |   |    |              |        |        |    |    |                           |        |        |    |     |                        |        |        |    |     |                      |        |        |    |      |                            |        |        |    |      |                            |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                         |        |        |    |      |                     |        |        |    |     |                      |        |        |    |    |               |        |        |  |
| 11 | C61                                                               | 33u/50V L5Kh 6.3*11 KY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 53.9°C                                                             | 75.1°C                      |    |          |     |                             |                             |   |     |       |        |        |   |    |        |        |        |   |    |       |        |        |   |    |        |        |        |   |    |                  |        |        |   |    |                       |        |        |   |    |                |        |        |   |    |               |        |        |   |    |              |        |        |    |    |                           |        |        |    |     |                        |        |        |    |     |                      |        |        |    |      |                            |        |        |    |      |                            |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                         |        |        |    |      |                     |        |        |    |     |                      |        |        |    |    |               |        |        |  |
| 12 | C18                                                               | 22u/50V L5Kh 5*11 KY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 54.6°C                                                             | 75.9°C                      |    |          |     |                             |                             |   |     |       |        |        |   |    |        |        |        |   |    |       |        |        |   |    |        |        |        |   |    |                  |        |        |   |    |                       |        |        |   |    |                |        |        |   |    |               |        |        |   |    |              |        |        |    |    |                           |        |        |    |     |                        |        |        |    |     |                      |        |        |    |      |                            |        |        |    |      |                            |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                         |        |        |    |      |                     |        |        |    |     |                      |        |        |    |    |               |        |        |  |
| 13 | C150                                                              | 100u/25V UL10Kh 6.3*11 YXM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 46.6°C                                                             | 67.7°C                      |    |          |     |                             |                             |   |     |       |        |        |   |    |        |        |        |   |    |       |        |        |   |    |        |        |        |   |    |                  |        |        |   |    |                       |        |        |   |    |                |        |        |   |    |               |        |        |   |    |              |        |        |    |    |                           |        |        |    |     |                        |        |        |    |     |                      |        |        |    |      |                            |        |        |    |      |                            |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                         |        |        |    |      |                     |        |        |    |     |                      |        |        |    |    |               |        |        |  |
| 14 | C151                                                              | 100u/25V UL10Kh 6.3*11 YXM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 44.1°C                                                             | 66.0°C                      |    |          |     |                             |                             |   |     |       |        |        |   |    |        |        |        |   |    |       |        |        |   |    |        |        |        |   |    |                  |        |        |   |    |                       |        |        |   |    |                |        |        |   |    |               |        |        |   |    |              |        |        |    |    |                           |        |        |    |     |                        |        |        |    |     |                      |        |        |    |      |                            |        |        |    |      |                            |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                         |        |        |    |      |                     |        |        |    |     |                      |        |        |    |    |               |        |        |  |
| 15 | C105                                                              | 820u/25V UL10Kh 10*20 ZLH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 47.6°C                                                             | 69.3°C                      |    |          |     |                             |                             |   |     |       |        |        |   |    |        |        |        |   |    |       |        |        |   |    |        |        |        |   |    |                  |        |        |   |    |                       |        |        |   |    |                |        |        |   |    |               |        |        |   |    |              |        |        |    |    |                           |        |        |    |     |                        |        |        |    |     |                      |        |        |    |      |                            |        |        |    |      |                            |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                         |        |        |    |      |                     |        |        |    |     |                      |        |        |    |    |               |        |        |  |
| 16 | C106                                                              | 820u/25V UL10Kh 10*20 ZLH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 48.5°C                                                             | 69.9°C                      |    |          |     |                             |                             |   |     |       |        |        |   |    |        |        |        |   |    |       |        |        |   |    |        |        |        |   |    |                  |        |        |   |    |                       |        |        |   |    |                |        |        |   |    |               |        |        |   |    |              |        |        |    |    |                           |        |        |    |     |                        |        |        |    |     |                      |        |        |    |      |                            |        |        |    |      |                            |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                         |        |        |    |      |                     |        |        |    |     |                      |        |        |    |    |               |        |        |  |
| 17 | C107                                                              | 820u/25V UL10Kh 10*20 ZLH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 47.1°C                                                             | 69.1°C                      |    |          |     |                             |                             |   |     |       |        |        |   |    |        |        |        |   |    |       |        |        |   |    |        |        |        |   |    |                  |        |        |   |    |                       |        |        |   |    |                |        |        |   |    |               |        |        |   |    |              |        |        |    |    |                           |        |        |    |     |                        |        |        |    |     |                      |        |        |    |      |                            |        |        |    |      |                            |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                         |        |        |    |      |                     |        |        |    |     |                      |        |        |    |    |               |        |        |  |
| 18 | C109                                                              | 820u/25V UL10Kh 10*20 ZLH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 46.6°C                                                             | 68.1°C                      |    |          |     |                             |                             |   |     |       |        |        |   |    |        |        |        |   |    |       |        |        |   |    |        |        |        |   |    |                  |        |        |   |    |                       |        |        |   |    |                |        |        |   |    |               |        |        |   |    |              |        |        |    |    |                           |        |        |    |     |                        |        |        |    |     |                      |        |        |    |      |                            |        |        |    |      |                            |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                         |        |        |    |      |                     |        |        |    |     |                      |        |        |    |    |               |        |        |  |
| 19 | C110                                                              | 820u/25V UL10Kh 10*20 ZLH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 45.8°C                                                             | 67.6°C                      |    |          |     |                             |                             |   |     |       |        |        |   |    |        |        |        |   |    |       |        |        |   |    |        |        |        |   |    |                  |        |        |   |    |                       |        |        |   |    |                |        |        |   |    |               |        |        |   |    |              |        |        |    |    |                           |        |        |    |     |                        |        |        |    |     |                      |        |        |    |      |                            |        |        |    |      |                            |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                         |        |        |    |      |                     |        |        |    |     |                      |        |        |    |    |               |        |        |  |
| 20 | C111                                                              | 470u/25V L7Kh 10*16 YXG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 44.4°C                                                             | 66.4°C                      |    |          |     |                             |                             |   |     |       |        |        |   |    |        |        |        |   |    |       |        |        |   |    |        |        |        |   |    |                  |        |        |   |    |                       |        |        |   |    |                |        |        |   |    |               |        |        |   |    |              |        |        |    |    |                           |        |        |    |     |                        |        |        |    |     |                      |        |        |    |      |                            |        |        |    |      |                            |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                         |        |        |    |      |                     |        |        |    |     |                      |        |        |    |    |               |        |        |  |
| 21 | Q102                                                              | IRFB3607PBF 80A/75V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 53.8°C                                                             | 74.9°C                      |    |          |     |                             |                             |   |     |       |        |        |   |    |        |        |        |   |    |       |        |        |   |    |        |        |        |   |    |                  |        |        |   |    |                       |        |        |   |    |                |        |        |   |    |               |        |        |   |    |              |        |        |    |    |                           |        |        |    |     |                        |        |        |    |     |                      |        |        |    |      |                            |        |        |    |      |                            |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                         |        |        |    |      |                     |        |        |    |     |                      |        |        |    |    |               |        |        |  |
| 22 | BD1                                                               | 4A/800V GLASS GBU408                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 48.2°C                                                             | 68.4°C                      |    |          |     |                             |                             |   |     |       |        |        |   |    |        |        |        |   |    |       |        |        |   |    |        |        |        |   |    |                  |        |        |   |    |                       |        |        |   |    |                |        |        |   |    |               |        |        |   |    |              |        |        |    |    |                           |        |        |    |     |                        |        |        |    |     |                      |        |        |    |      |                            |        |        |    |      |                            |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                         |        |        |    |      |                     |        |        |    |     |                      |        |        |    |    |               |        |        |  |
| 23 | U1                                                                | PFC FAN6921MR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 67.3°C                                                             | 88.1°C                      |    |          |     |                             |                             |   |     |       |        |        |   |    |        |        |        |   |    |       |        |        |   |    |        |        |        |   |    |                  |        |        |   |    |                       |        |        |   |    |                |        |        |   |    |               |        |        |   |    |              |        |        |    |    |                           |        |        |    |     |                        |        |        |    |     |                      |        |        |    |      |                            |        |        |    |      |                            |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                         |        |        |    |      |                     |        |        |    |     |                      |        |        |    |    |               |        |        |  |
| 3  | OVER LOAD BURN-IN TEST                                            | NO DAMAGE<br>1 HOUR ( MIN )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | I/P : 230 VAC<br>O/P : 123 % LOAD<br>Ta : 25°C                     | TEST : OK                   | P  |          |     |                             |                             |   |     |       |        |        |   |    |        |        |        |   |    |       |        |        |   |    |        |        |        |   |    |                  |        |        |   |    |                       |        |        |   |    |                |        |        |   |    |               |        |        |   |    |              |        |        |    |    |                           |        |        |    |     |                        |        |        |    |     |                      |        |        |    |      |                            |        |        |    |      |                            |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                         |        |        |    |      |                     |        |        |    |     |                      |        |        |    |    |               |        |        |  |
| 4  | LOW TEMPERATURE<br>TURN ON TEST                                   | TURN ON AFTER 2 HOUR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | I/P : 264VAC/100VAC<br>O/P : 100 % LOAD<br>Ta= -30 °C              | TEST : OK                   | P  |          |     |                             |                             |   |     |       |        |        |   |    |        |        |        |   |    |       |        |        |   |    |        |        |        |   |    |                  |        |        |   |    |                       |        |        |   |    |                |        |        |   |    |               |        |        |   |    |              |        |        |    |    |                           |        |        |    |     |                        |        |        |    |     |                      |        |        |    |      |                            |        |        |    |      |                            |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                         |        |        |    |      |                     |        |        |    |     |                      |        |        |    |    |               |        |        |  |
| 5  | HIGH HUMIDITY<br>HIGH TEMPERATURE<br>HIGH VOLTAGE<br>TURN ON TEST | AFTER 12 HOURS<br>IN CHAMBER ON<br>CONTROL 50 °C<br>NO DAMAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | I/P : 272 VAC<br>O/P : FULL LOAD<br>Ta= 50 °C<br>HUMIDITY= 95 %R.H | TEST : OK                   | P  |          |     |                             |                             |   |     |       |        |        |   |    |        |        |        |   |    |       |        |        |   |    |        |        |        |   |    |                  |        |        |   |    |                       |        |        |   |    |                |        |        |   |    |               |        |        |   |    |              |        |        |    |    |                           |        |        |    |     |                        |        |        |    |     |                      |        |        |    |      |                            |        |        |    |      |                            |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                         |        |        |    |      |                     |        |        |    |     |                      |        |        |    |    |               |        |        |  |
| 6  | TEMPERATURE<br>COEFFICIENT                                        | ± 0.03 % (0~50°C)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | I/P : 230 VAC<br>O/P : FULL LOAD                                   | ± 0.1 % (0~50°C)            | P  |          |     |                             |                             |   |     |       |        |        |   |    |        |        |        |   |    |       |        |        |   |    |        |        |        |   |    |                  |        |        |   |    |                       |        |        |   |    |                |        |        |   |    |               |        |        |   |    |              |        |        |    |    |                           |        |        |    |     |                        |        |        |    |     |                      |        |        |    |      |                            |        |        |    |      |                            |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                         |        |        |    |      |                     |        |        |    |     |                      |        |        |    |    |               |        |        |  |
| 7  | STORAGE TEMPERATURE TEST                                          | 1. Thermal shock Temperature : -45°C ~ +90°C<br>2. Temperature change rate : 25°C / MIN<br>3. Dwell time low and high temperature : 30 MIN/EACH<br>4. Total test cycle : 5 CYCLE<br>5. Input/Output condition : STATIC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                    | OK                          | P  |          |     |                             |                             |   |     |       |        |        |   |    |        |        |        |   |    |       |        |        |   |    |        |        |        |   |    |                  |        |        |   |    |                       |        |        |   |    |                |        |        |   |    |               |        |        |   |    |              |        |        |    |    |                           |        |        |    |     |                        |        |        |    |     |                      |        |        |    |      |                            |        |        |    |      |                            |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                           |        |        |    |      |                         |        |        |    |      |                     |        |        |    |     |                      |        |        |    |    |               |        |        |  |

|    |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                              |   |
|----|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|---|
| 8. | THERMAL SHOCK TEST      | 1. Thermal shock Temperature : $-30^{\circ}\text{C} \sim +50^{\circ}\text{C}$<br>2. Temperature change rate : $25^{\circ}\text{C} / \text{MIN}$<br>3. Dwell time low and high temperature : 30 MIN/EACH<br>4. Total test cycle : 10 CYCLE<br>5. Input/Output condition : 230VAC/Full Load AC ON/OFF TEST<br>turn on 58sec ; turn off 2sec                                                                                                                                                                                                                                           | OK                                                                                                           | P |
| 9  | VIBRATION TEST          | 1 Carton & 1 Set<br>(1) Waveform : Sine Wave<br>(2) Frequency : 10~500Hz<br>(3) Sweep Time : 10min/sweep cycle<br>(4) Acceleration : 2G<br>(5) Test Time : 60min in each axis (X.Y.Z)<br>(6) Ta : $25^{\circ}\text{C}$                                                                                                                                                                                                                                                                                                                                                              | TEST : OK                                                                                                    | P |
| 10 | CAPACITOR<br>LIFE CYCLE | ELP-75-12 PCB ONLY<br>SUPPOSE C105 IS THE MOST CRITICAL COMPONENT<br>(1) I/P : 230VAC O/P : FULL LOAD Ta= $25^{\circ}\text{C}$ LIFE TIME<br>(2) I/P : 230VAC O/P : FULL LOAD Ta= $50^{\circ}\text{C}$ LIFE TIME<br>(3) I/P : 230VAC O/P : 75% LOAD Ta= $50^{\circ}\text{C}$ LIFE TIME<br><br>ELP-75-12 WITH CASE<br>SUPPOSE C105 IS THE MOST CRITICAL COMPONENT<br>(1) I/P : 230VAC O/P : FULL LOAD Ta= $25^{\circ}\text{C}$ LIFE TIME<br>(2) I/P : 230VAC O/P : FULL LOAD Ta= $50^{\circ}\text{C}$ LIFE TIME<br>(3) I/P : 230VAC O/P : 75% LOAD Ta= $50^{\circ}\text{C}$ LIFE TIME | (1) 685924.8HRS<br>(2) 163332.3HRS<br>(3) 187660.9HRS<br><br>(1) 685344HRS<br>(2) 145140HRS<br>(3) 183608HRS | P |
| 11 | MTBF                    | MIL-HDBK-217F NOTICES2 PARTS COUNT<br>TOTAL FAILURE RATE : 345.3K HRS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                              | P |

| DATE       | SAMPLE                     | TEST RESULT | TESTER     | APPROVAL      |
|------------|----------------------------|-------------|------------|---------------|
| 2009/12/17 | RD SAMPLE                  | PASS        | SANFORD SU | VINCENT TSENG |
| 2010/1/21  | PRODUCT SAMPLE<br>W1001A26 | PASS        | SANFORD SU | VINCENT TSENG |

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