



Test Report: HRP-75-48

75W Single Output with PFC Function

■ DESIGN VERIFY TEST

Output Function Test
Input Function Test
Protection Function Test
Control 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 : 240 mVp-p (Max)	I/P : 230VAC O/P : FULL LOAD Ta : 25°C	V1 : 155 mVp-p (Max)	P
2	OUTPUT VOLTAGE ADJUST RANGE	CH1 : 45 V ~ 55.2 V	I/P : 230 VAC I/P : 115 VAC O/P : MIN LOAD Ta : 25°C	43.76 V~ 58.74 V/ 230 VAC 43.47 V~ 58.74 V/ 115 VAC	P
3	OUTPUT VOLTAGE TOLERANCE	V1 : 1.5 % ~ -1.5 % (Max)	I/P : 100 VAC / 264 VAC O/P : FULL/ MIN LOAD Ta : 25°C	V1 : 0.09 % ~ -0.09 %	P
4	LINE REGULATION	V1 : 0.2 % ~ -0.2 % (Max)	I/P : 100 VAC ~ 264 VAC O/P : FULL LOAD Ta : 25°C	V1 : 0 % ~ 0 %	P
5	LOAD REGULATION	V1 : 0.5 % ~ -0.5 % (Max)	I/P : 230 VAC O/P : FULL ~ MIN LOAD Ta : 25°C	V1 : 0.09 % ~ -0.09 %	P
6	SET UP TIME	230VAC : 1800 ms (Max) 115 VAC : 1800 ms (Max)	I/P : 230 VAC I/P : 115 VAC O/P : FULL LOAD Ta : 25°C	230VAC/ 781 ms 115VAC/ 781 ms	P
7	RISE TIME	230VAC : 25 ms (Max) 115VAC : 25 ms (Max)	I/P : 230 VAC I/P : 115 VAC O/P : FULL LOAD Ta : 25°C	230VAC/ 13 ms 115VAC/ 14 ms	P
8	HOLD UP TIME	230VAC : 50 ms (TYP) 115VAC : 20 ms (TYP)	I/P : 230 VAC I/P : 115 VAC O/P : FULL LOAD Ta : 25°C	230VAC/ 94 ms 115VAC/ 41 ms	P
9	OVER/UNDERSHOOT TEST	< ±5%	I/P : 230 VAC O/P : FULL LOAD Ta : 25°C	TEST : < 5 %	P
10	DYNAMIC LOAD	V1 : 4800 mVp-p	I/P : 230 VAC O/P : FULL /Min LOAD 90%DUTY/ 1KHZ Ta : 25°C	177 mVp-p	P

INPUT FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT	VERDICT
1	INPUT VOLTAGE RANGE	85VAC~264 VAC	I/P : TESTING O/P : FULL LOAD Ta : 25°C	74 V~264V	P
			I/P : LOW-LINE-3V= 97 V HIGH-LINE+15%=300 V O/P : FULL/MIN LOAD ON : 30 Sec . OFF : 30 Sec 10MIN (AC POWER ON/OFF NO DAMAGE)	TEST : OK	
2	INPUT FREQUENCY RANGE	47HZ ~63 HZ NO DAMAGE OSC	I/P : 100 VAC ~ 264 VAC O/P : FULL~MIN LOAD Ta : 25°C	TEST : OK	P
3	POWER FACTOR	0.9 / 230 VAC(TYP) 0.95 / 115 VAC(TYP)	I/P : 230 VAC I/P : 115 VAC O/P : FULL LOAD Ta : 25°C	PF= 0.923 / 230 VAC PF= 0.98 / 115 VAC	P
4	EFFICIENCY	89% (TYP)	I/P : 230 VAC O/P : FULL LOAD Ta : 25°C	90.5 %	P
5	INPUT CURRENT	230V/ 0.7 A (TYP) 115V/ 1.2 A (TYP)	I/P : 230 VAC I/P : 115 VAC O/P : FULL LOAD Ta : 25°C	I = 0.4 A/ 230 VAC I = 0.75 A/ 115 VAC	P
6	INRUSH CURRENT	230V/ 65 A (TYP) 115V/ 35 A (TYP) COLD START	I/P : 230 VAC I/P : 115 VAC O/P : FULL LOAD Ta : 25°C	I = 54 A/ 230 VAC I = 27 A/ 115 VAC	P
7	LEAKAGE CURRENT	< 1 mA / 240 VAC	I/P : 264 VAC O/P : Min LOAD Ta : 25°C	L-FG : 0.56 mA N-FG : 0.42 mA	P

PROTECTION FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT	VERDICT
1	OVER LOAD PROTECTION	105 %~ 135 %	I/P : 230 VAC I/P : 115 VAC O/P : TESTING Ta : 25°C	121%/ 230 VAC 121%/ 115 VAC Constant current limiting, switch to hiccup mode for Vo<50% of rated voltage, recovers automatically after fault condition is removed	P
2	OVER VOLTAGE PROTECTION	CH1 : 57.6 V~ 67.2 V	I/P : 230 VAC I/P : 115 VAC O/P : MIN LOAD Ta : 25°C	64.52V/ 230 VAC 64.5V/ 115 VAC Shut down Re- power ON	P
3	SHORT PROTECTION	SHORT EVERY OUTPUT 1 HOUR NO DAMAGE	I/P : 264 VAC O/P : FULL LOAD Ta : 25°C	NO DAMAGE Constant current limiting, switch to hiccup mode for Vo<50% of rated voltage, recovers automatically after fault condition is removed	P

CONTROL FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT	VERDICT
1	REMOTE CONTROL	Rc+ / Rc- 0 V~ 0.8 V POWER ON 4 V~ 10 V POWER OFF	I/P : 230 VAC O/P : FULL LOAD Ta : 25°C	0 V~ 1.7 V POWER ON 1.8 V~ 10 V POWER OFF	P
2	NO LOAD POWER CONSUMPTION	<0.5 W / 240VAC	I/P : 240 VAC O/P : NO LOAD Ta : 25°C	0.48 W	P

COMPONENT STRESS TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT	VERDICT
1	Power Transistor (D to S) or (C to E) Peak Voltage	Q3 Rated SPA11N65C3 11A/650V	I/P : High-Line +3V = 267 V O/P : (1)Full Load Turn on (2) Output Short Ta : 25°C	(1) 622 V (2) 600 V	P
2	Diode Peak Voltage	Q101 Rated STTH2003CT 20A/300V	I/P : High-Line +3V = 267 V O/P : (1)Full Load Turn on (2)Output Short Ta : 25°C	(1) 262 V (2) 258 V	P
3	PFC Transistor (D to S) or (C to E) Peak Voltage	Q1 Rated : 2SK4106 12A/500V	I/P : High-Line +3V = 267 V O/P : (1)Full Load (2)Output Short Ta : 25°C	(1) 494 V (2) 436 V	P
4	Input Capacitor Voltage	C5 Rated 100u/400V 105°C KMG	I/P : High-Line +3V = 267 V O/P : (1)Full Load Turn on /Off (2) Min load Turn on /Off (3)Full Load /Min load Change Ta : 25°C	(1) 400 V (2) 376 V (3) 385 V	P
5	Control IC Voltage Test	U2 Rated TEA 1751 14V~38V	I/P : High-Line +3V = 267 V O/P : (1)Full Load Turn on /Off (2) Min load Turn on /Off (3)Full Load /Min load Change Ta : 25°C	(1) 29.48 V (2) 23.53 V (3) 29.5 V	P

SAFETY & E.M.C. TEST

SAFETY TEST

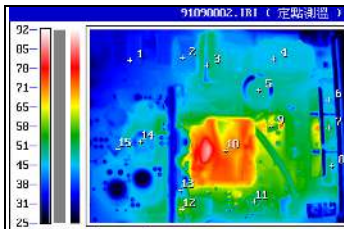
NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT	VERDICT
1	WITHSTAND VOLTAGE	I/P-O/P : 3 KVAC/min I/P-FG : 2 KVAC/min O/P-FG : 0.5 KVAC/min	I/P-O/P : 3.6 KVAC/min I/P-FG : 2.4 KVAC/min O/P-FG : 0.6 KVAC/min Ta : 25°C	I/P-O/P : 4.79 mA I/P-FG : 3.61 mA O/P-FG : 2.231 mA NO DAMAGE	P
2	ISOLATION RESISTANCE	I/P-O/P : 500VDC>100MΩ I/P-FG : 500VDC>100MΩ O/P-FG : 500VDC>100MΩ	I/P-O/P : 500 VDC I/P-FG : 500 VDC O/P-FG : 500 VDC Ta : 25°C /70%RH	I/P-O/P : 30 GΩ I/P-FG : 27.3 GΩ O/P-FG : 30 GΩ NO DAMAGE	P
3	GROUNDING CONTINUITY	FG(PE) TO CHASSIS OR TRACE < 100 mΩ	40 A / 2min Ta : 25°C / 70%RH	7 mΩ	P
4	APPROVAL	TUV : Certificate NO : R50163746 UL : File NO : E183223			P

E.M.C TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT	VERDICT
1	HARMONIC	EN61000-3-2,-3 CLASS A	I/P : 230 VAC/50HZ O/P : FULL LOAD Ta : 25°C	PASS	P
2	CONDUCTION	EN55022 CLASS B	I/P : 230 VAC/50HZ O/P : FULL LOAD Ta : 25°C	PASS Test by certified Lab	P
3	RADIATION	EN55022 CLASS B	I/P : 230 VAC/50HZ O/P : FULL LOAD Ta : 25°C	PASS Test by certified Lab	P
4	E.S.D	EN61000-4-2 LIGHT INDUSTRY AIR : 8KV / Contact : 4KV	I/P : 230 VAC/50HZ O/P : FULL LOAD Ta : 25°C	CRITERIA A	P
5	E.F.T	EN61000-4-4 LIGHT INDUSTRY INPUT : 2KV	I/P : 230 VAC/50HZ O/P : FULL LOAD Ta : 25°C	CRITERIA A	P
6	SURGE	IEC61000-4-5 LIGHT INDUSTRY L-N : 2KV L,N-PE : 4KV	I/P : 230 VAC/50HZ O/P : FULL LOAD 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 (ROOM AMBIENT)	MODEL:HRP-75-12  91090002.TRI (定點測溫) p 1: 35.8℃ 50x, 38y p 2: 41.5℃ 115x, 35y p 3: 45.3℃ 146x, 44y p 4: 46.1℃ 229x, 36y p 5: 48.4℃ 210x, 75y p 6: 43.7℃ 297x, 87y p 7: 51.2℃ 297x, 122y p 8: 45.4℃ 301x, 169y p 9: 61.1℃ 225x, 120y p10: 70.4℃ 165x, 150y p11: 52.1℃ 205x, 213y p12: 59.6℃ 115x, 223y p13: 42.9℃ 113x, 199y p14: 43.5℃ 63x, 139y p15: 41.1℃ 35x, 140y 座 標: 107, 106 座標溫度: 42.4℃ (BD.94) 材料率: 0.94 修正後溫度: 42.4℃ (BD.94) 最高溫度: 91.5℃ 最低溫度: 24.7℃ 最高溫度 (H): 87.2℃ 座標: 147, 149 最低溫度 (L): 25.1℃ 座標: 319, 5 全球材料率: 0.940 日 期: 2009/ 1/ 9 時 間: 10:59:21	<table><tr><th></th><th>Position</th><th>P/N</th><th>Temp</th><th>VERDICT</th></tr><tr><td>P1</td><td>LF1</td><td>TR733-R3</td><td>35.8℃</td><td>PASS</td></tr><tr><td>P2</td><td>LF2</td><td>TR653-R2</td><td>41.5℃</td><td>PASS</td></tr><tr><td>P3</td><td>BD1</td><td>D3SB80</td><td>45.3℃</td><td>PASS</td></tr><tr><td>P4</td><td>L3-CORE</td><td>TF1906</td><td>46.1℃</td><td>PASS</td></tr><tr><td>P5</td><td>C5</td><td>100u/400V 105℃</td><td>48.4℃</td><td>PASS</td></tr><tr><td>P6</td><td>D1</td><td>BYV29X-600</td><td>43.7℃</td><td>PASS</td></tr><tr><td>P7</td><td>Q1</td><td>FET 2SK4106</td><td>51.2℃</td><td>PASS</td></tr><tr><td>P8</td><td>Q3</td><td>SPA11N65C3</td><td>45.4℃</td><td>PASS</td></tr><tr><td>P9</td><td>D2</td><td>1N5406</td><td>61.1℃</td><td>PASS</td></tr><tr><td>P10</td><td>T1-core</td><td>TF1901-R1</td><td>70.4℃</td><td>PASS</td></tr><tr><td>P11</td><td>C18</td><td>47u/50V</td><td>52.1℃</td><td>PASS</td></tr><tr><td>P12</td><td>C150</td><td>47u/50V</td><td>59.6℃</td><td>PASS</td></tr><tr><td>P13</td><td>Q101</td><td>IRFB3607PBF</td><td>42.9℃</td><td>PASS</td></tr><tr><td>P14</td><td>C105</td><td>1200u/16V</td><td>43.5℃</td><td>PASS</td></tr><tr><td>P15</td><td>L100</td><td>RB010E-R2</td><td>41.1℃</td><td>PASS</td></tr></table>		Position	P/N	Temp	VERDICT	P1	LF1	TR733-R3	35.8℃	PASS	P2	LF2	TR653-R2	41.5℃	PASS	P3	BD1	D3SB80	45.3℃	PASS	P4	L3-CORE	TF1906	46.1℃	PASS	P5	C5	100u/400V 105℃	48.4℃	PASS	P6	D1	BYV29X-600	43.7℃	PASS	P7	Q1	FET 2SK4106	51.2℃	PASS	P8	Q3	SPA11N65C3	45.4℃	PASS	P9	D2	1N5406	61.1℃	PASS	P10	T1-core	TF1901-R1	70.4℃	PASS	P11	C18	47u/50V	52.1℃	PASS	P12	C150	47u/50V	59.6℃	PASS	P13	Q101	IRFB3607PBF	42.9℃	PASS	P14	C105	1200u/16V	43.5℃	PASS	P15	L100	RB010E-R2	41.1℃	PASS	P																			
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2	TEMPERATURE RISE TEST	MODEL : HRP-75-24 1. ROOM AMBIENT BURN-IN : 2 HRS I/P : 230VAC O/P : FULL LOAD Ta= 30 ℃ 2. HIGH AMBIENT BURN-IN : 2.5 HRS I/P : 230VAC O/P : FULL LOAD Ta= 40.7 ℃ <table><tr><th>NO</th><th>Position</th><th>P/N</th><th>ROOM AMBIENT Ta= 30 ℃</th><th>HIGH AMBIENT Ta= 40.7 ℃</th></tr><tr><td>1</td><td>LF1</td><td>TR733-R3</td><td>47.3℃</td><td>55.3℃</td></tr><tr><td>2</td><td>LF2</td><td>TR653-R1</td><td>52.5℃</td><td>60.1℃</td></tr><tr><td>3</td><td>BD1</td><td>4A/800V GLASS D3SB80</td><td>58.6℃</td><td>66.0℃</td></tr><tr><td>4</td><td>L1</td><td>TR623-R3</td><td>51.6℃</td><td>59.0℃</td></tr><tr><td>5</td><td>L3</td><td>TF-1906</td><td>58.2℃</td><td>65.9℃</td></tr><tr><td>6</td><td>C5</td><td>100u/400V 105℃ 18*25 KMG</td><td>65.6℃</td><td>72.8℃</td></tr><tr><td>7</td><td>D1</td><td>SFRD BYV29X-600 7A/600V</td><td>50.9℃</td><td>59.0℃</td></tr><tr><td>8</td><td>Q1</td><td>2SK4106 12A/500V</td><td>53.4℃</td><td>61.5℃</td></tr><tr><td>9</td><td>Q3</td><td>SPA11N65C3 11A/650V</td><td>53.6℃</td><td>61.8℃</td></tr><tr><td>10</td><td>C61</td><td>47u/50V L10Kh 6.3*11 YXM</td><td>61.2℃</td><td>69.5℃</td></tr><tr><td>11</td><td>T1</td><td>TF-1903</td><td>98.7℃</td><td>107.0℃</td></tr><tr><td>12</td><td>C18</td><td>47u/50V L5Kh 6.3*11 YXF</td><td>68.7℃</td><td>75.6℃</td></tr><tr><td>13</td><td>D2</td><td>3A/600V 1N5406</td><td>77.8℃</td><td>85.4℃</td></tr><tr><td>14</td><td>U1</td><td>TEA1751T</td><td>76.4℃</td><td>83.4℃</td></tr><tr><td>15</td><td>C150</td><td>47u/50V L5Kh 6.3*11 YXF</td><td>71.5℃</td><td>78.7℃</td></tr><tr><td>16</td><td>Q101</td><td>FMX-12SL 10A/200V</td><td>60.9℃</td><td>69.3℃</td></tr><tr><td>17</td><td>CN2</td><td>ST-22 80℃</td><td>51.5℃</td><td>59.8℃</td></tr><tr><td>18</td><td>C106</td><td>470u/35V UL7Kh 10*20 KY</td><td>47.9℃</td><td>57.3℃</td></tr><tr><td>19</td><td>L100</td><td>RB-COIL RB010E-R2 6*15 1.2Φ 0.5uH</td><td>44.5℃</td><td>53.6℃</td></tr></table>	NO	Position	P/N	ROOM AMBIENT Ta= 30 ℃	HIGH AMBIENT Ta= 40.7 ℃	1	LF1	TR733-R3	47.3℃	55.3℃	2	LF2	TR653-R1	52.5℃	60.1℃	3	BD1	4A/800V GLASS D3SB80	58.6℃	66.0℃	4	L1	TR623-R3	51.6℃	59.0℃	5	L3	TF-1906	58.2℃	65.9℃	6	C5	100u/400V 105℃ 18*25 KMG	65.6℃	72.8℃	7	D1	SFRD BYV29X-600 7A/600V	50.9℃	59.0℃	8	Q1	2SK4106 12A/500V	53.4℃	61.5℃	9	Q3	SPA11N65C3 11A/650V	53.6℃	61.8℃	10	C61	47u/50V L10Kh 6.3*11 YXM	61.2℃	69.5℃	11	T1	TF-1903	98.7℃	107.0℃	12	C18	47u/50V L5Kh 6.3*11 YXF	68.7℃	75.6℃	13	D2	3A/600V 1N5406	77.8℃	85.4℃	14	U1	TEA1751T	76.4℃	83.4℃	15	C150	47u/50V L5Kh 6.3*11 YXF	71.5℃	78.7℃	16	Q101	FMX-12SL 10A/200V	60.9℃	69.3℃	17	CN2	ST-22 80℃	51.5℃	59.8℃	18	C106	470u/35V UL7Kh 10*20 KY	47.9℃	57.3℃	19	L100	RB-COIL RB010E-R2 6*15 1.2Φ 0.5uH	44.5℃	53.6℃	P
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3	OVER LOAD BURN-IN TEST	NO DAMAGE 1 HOUR (MIN)	I/P : 230 VAC O/P : 121 % LOAD Ta : 25℃	TEST : OK	P																																																																																																		

4	LOW TEMPERATURE TURN ON TEST	TURN ON AFTER 2 HOUR	I/P : 100VAC/230 VAC O/P : 100 % LOAD Ta= -25 °C / -40°C	TEST : OK	P
5	HIGH HUMIDITY HIGH TEMPERATURE HIGH VOLTAGE TURN ON TEST	AFTER 12 HOURS IN CHAMBER ON CONTROL 40 °C NO DAMAGE	I/P : 272 VAC O/P : FULL LOAD Ta= 40 °C HUMIDITY= 95 %R.H	TEST : OK	P
6	TEMPERATURE COEFFICIENT	± 0.03 %(0~50°C)	I/P : 230 VAC O/P : FULL LOAD	± 0 %(0~50°C)	P
7	STORAGE TEMPERATURE TEST	1. Thermal shock Temperature : -45°C ~ +90°C 2. Temperature change rate : 25°C / MIN 3. Dwell time low and high temperature : 30 MIN/EACH 4. Total test cycle : 5 CYCLE 5. Input/Output condition : STATIC		OK	P
8.	THERMAL SHOCK TEST	1. Thermal shock Temperature : -25°C ~ +45°C 2. Temperature change rate : 25°C / MIN 3. Dwell time low and high temperature : 30 MIN/EACH 4. Total test cycle : 10 CYCLE 5. Input/Output condition : 230VAC/Full Load		OK	P
9	VIBRATION TEST	1 Carton & 1 Set (1) Waveform : Sine Wave (2) Frequency : 10~500Hz (3) Sweep Time : 10min/sweep cycle (4) Acceleration : 5G (5) Test Time : 60min in each axis (X.Y.Z) (6) Ta : 25°C		TEST : OK	P
10	CAPACITOR LIFE CYCLE	HRP-75-24:SUPPOSE C106 IS THE MOST CRITICAL COMPONENT (1) I/P : 230VAC O/P : FULL LOAD Ta= 25 °C LIFE TIME (2) I/P : 230VAC O/P : FULL LOAD Ta= 40 °C LIFE TIME		(1) 637398.3HRS (2) 246590.4HRS	P
11	MTBF	MIL-HDBK-217F NOTICES2 PARTS COUNT TOTAL FAILURE RATE : 394.8K HRS			P

DATE	SAMPLE	TEST RESULT	TESTER	APPROVAL
2009/6/16	RD SAMPLE	PASS	SANFORD SU	VINCENT TSENG
2009/7/31	PRODUCT SAMPLE W0907C32	PASS	SANFORD SU	VINCENT TSENG
2009/10/5	PRODUCT SAMPLE W0909C38	PASS	SANFORD SU	VINCENT TSENG

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