



Test Report: **XLG-200-12**

200W Constant Power MODE LED Driver

■ DESIGN VERIFY TEST

Output Function Test

Input Function Test

Protection Function Test

Component Stress Test

■ SAFETY & E.M.C. TEST

Safety Test

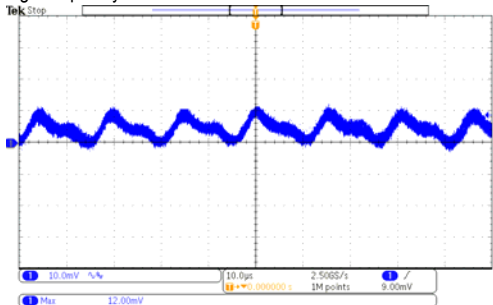
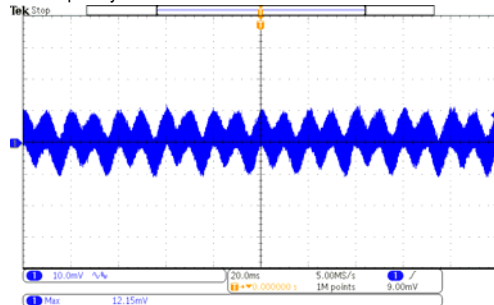
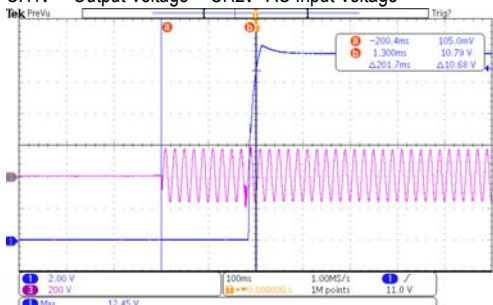
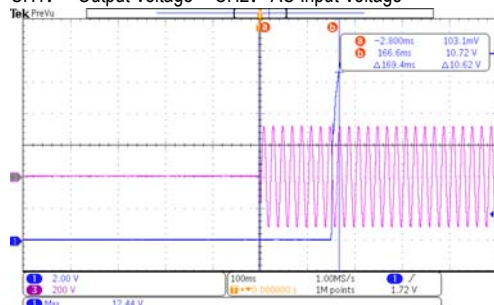
E.M.C. Test

■ RELIABILITY TEST

Environment Test

DESIGN VERIFY TEST

OUTPUT FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	CONSTANT CURRENT REGION	8.4V~12V	I/P: 230VAC O/P: LED MODE Ta: 25°C	7.5V~ 12 V
2	CURRENT ADJ. RANGE	8A~16A	I/P: 230VAC O/P: SETTING Ta: 25°C	6.9A~17.9A
3	VOLTAGE TOLERANCE	-3%~+3%	I/P: 90VAC / 305VAC O/P: FULL/ NO LOAD Ta: 25°C	-0.83%~ 0.83%
4	LINE REGULATION	-0.5%~+0.5%	I/P: 90VAC ~ 305VAC O/P: FULL LOAD Ta: 25°C	0%~0.34%
5	LOAD REGULATION	-2%~+2%	I/P: 230VAC O/P: FULL ~NO LOAD Ta: 25°C	-0.75%~ 0.92%
6	OVER/UNDERSHOOT TEST	<± 5 %	I/P: 230VAC O/P: FULL LOAD Ta: 25°C	± 3.83%
7	CONSTANT POWER	O/P: 192W	I/P: 230 VAC O/P: Vo×Io	TEST: OK
8	RIPPLE & NOISE (Max)	150mVp-p	I/P: 230VAC O/P: FULL LOAD Ta: 25°C	12.15mVp-p
high frequency :  low frequency : 				
9	SET UP TIME(Max)	115VAC/1200ms 230VAC/ 500ms	I/P: 115 VAC I/P: 230 VAC O/P: FULL LOAD Ta: 25°C	115VAC/ 201.7 ms 230VAC/ 169.4 ms
INPUT=115VAC/50HZ @ FULL LOAD CH1: Output Voltage CH2: AC Input Voltage  INPUT=230VAC/50HZ @ FULL LOAD CH1: Output Voltage CH2: AC Input Voltage 				

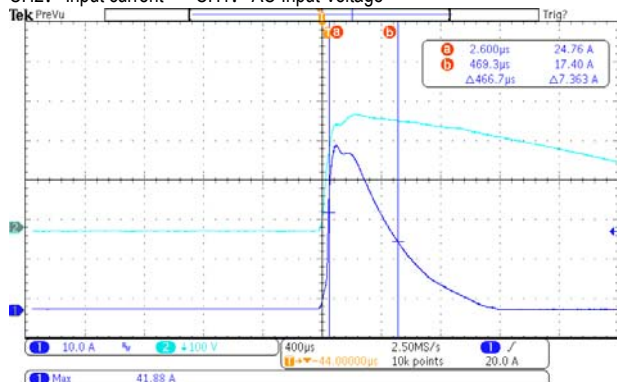
10	RISE TIME (Max)	115VAC/ 100ms 230VAC/ 100ms	I/P: 115 VAC I/P: 230 VAC O/P: FULL LOAD Ta: 25°C	115VAC/ 15.7 ms 230VAC/ 15.4 ms
INPUT=115VAC/50HZ @ FULL LOAD CH1: Output Voltage		INPUT=230VAC/50HZ @ FULL LOAD CH1: Output Voltage		
11	HOLD UP TIME(Typ)	115VAC/ 10ms 230VAC/ 10ms	I/P: 115 VAC I/P: 230 VAC O/P: FULL LOAD Ta: 25°C	115VAC/ 21.85 ms 230VAC/ 23.4 ms
INPUT=115VAC/50HZ @ FULL LOAD CH1: Output Voltage CH2: AC Input Voltage		INPUT=230VAC/50HZ @ FULL LOAD CH1: Output Voltage CH2: AC Input Voltage		
12	DYNAMIC LOAD	V1: 1200 mVp-p	I/P: 230VAC O/P: (1)FULL /50% LOAD 50%DUTY / 120HZ (2)FULL /50% LOAD 50%DUTY / 1KHZ Ta: 25°C	(1) 591.7mVp-p (2) 870.2mVp-p
FULL /50% LOAD 50%DUTY / 120HZ		FULL /50% LOAD 50%DUTY / 1KHZ		

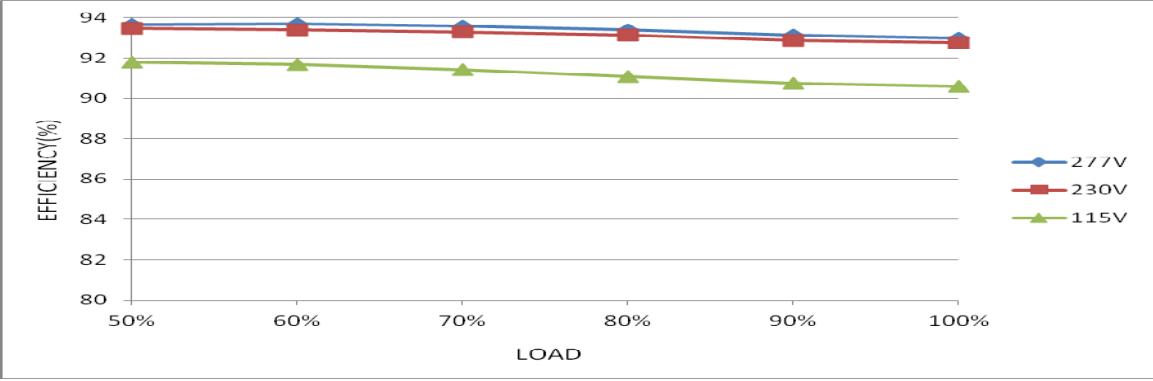
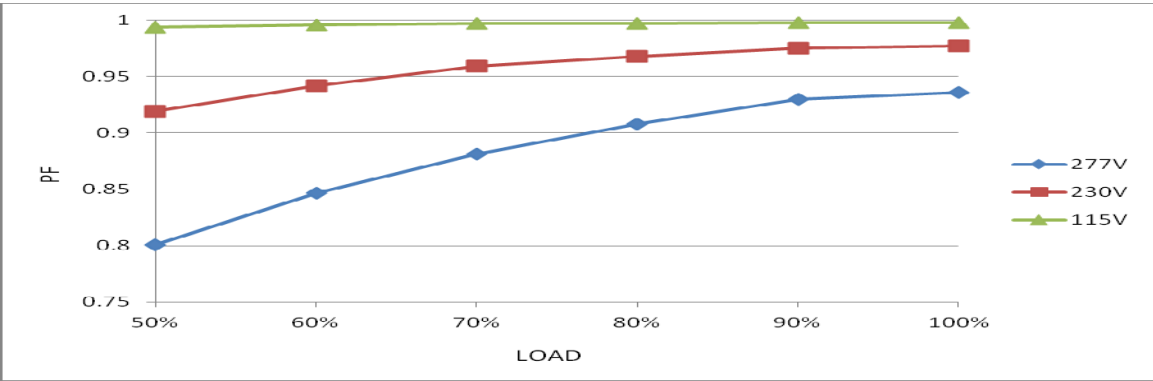
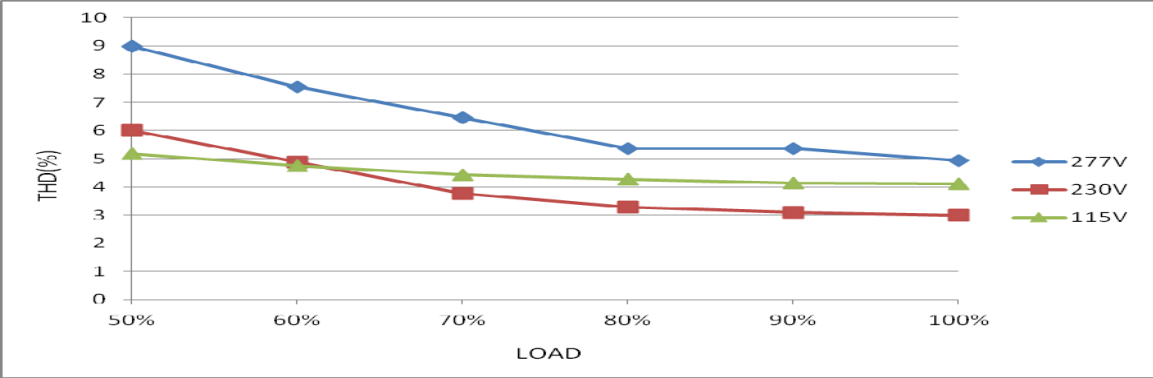
INPUT FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	INPUT VOLTAGE RANGE	100VAC~305VAC	I/P: TESTING O/P: FULL LOAD Ta: 25°C	90V~ 315 V
			I/P: (1)LOW-LINE-3V=97 V HIGH-LINE+10V=315 V O/P: FULL/MIN LOAD ON: 30 Sec OFF: 30 Sec 10MIN (2)230VAC ON: 0.5 Sec OFF: 0.5 Sec 20MIN (POWER ON/OFF NO DAMAGE)	TEST: OK
2	INPUT FREQUENCY RANGE	47HZ ~63 HZ NO DAMAGE	I/P: 100 VAC ~305 VAC O/P: FULL~NO LOAD Ta: 25°C	TEST: OK
3	AC CURRENT	0.9A/277VAC 1.1A/230VAC 2.2A/115VAC	I/P: 277 VAC I/P: 230 VAC I/P: 115 VAC O/P: FULL LOAD Ta: 25°C	I=0.72 A/ 277VAC I=0.85 A/ 230VAC I=1.72 A/ 115VAC
4	LEAKAGE CURRENT	< 0.75mA / 277VAC	I/P: 277 VAC O/P: NO LOAD Ta: 25°C	L-FG: 0.296 mA N-FG: 0.296 mA
5	NO LOAD CONSUMPTION	<0.5W	I/P: 230VAC O/P: NO LOAD Ta: 25°C	0.3814W
6	INRUSH CURRENT(Typ)	230VAC/ 65A COLD START (twidth=550us measured at 50% Ipeak) COLD START at 230V	I/P: 230 VAC O/P: FULL LOAD Ta: 25°C	I = 41.88A/ 277VAC Twidth =466.7 us/50% Ipeak

INPUT=230VAC/50HZ @ FULL LOAD

CH2: Input current CH1: AC Input Voltage



7	EFFICIENCY(Typ)	92%	I/P: 230VAC O/P: FULL LOAD Ta: 25°C	92.76%																												
EFFICIENCY vs LOAD  <table border="1"><caption>Efficiency vs Load Data (Approximate)</caption><thead><tr><th>Load (%)</th><th>277V (%)</th><th>230V (%)</th><th>115V (%)</th></tr></thead><tbody><tr><td>50%</td><td>93.5</td><td>93.5</td><td>92.0</td></tr><tr><td>60%</td><td>93.5</td><td>93.5</td><td>92.0</td></tr><tr><td>70%</td><td>93.5</td><td>93.5</td><td>91.5</td></tr><tr><td>80%</td><td>93.5</td><td>93.5</td><td>91.0</td></tr><tr><td>90%</td><td>93.0</td><td>93.0</td><td>90.5</td></tr><tr><td>100%</td><td>93.0</td><td>93.0</td><td>90.5</td></tr></tbody></table>					Load (%)	277V (%)	230V (%)	115V (%)	50%	93.5	93.5	92.0	60%	93.5	93.5	92.0	70%	93.5	93.5	91.5	80%	93.5	93.5	91.0	90%	93.0	93.0	90.5	100%	93.0	93.0	90.5
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8	POWER FACTOR	0.92/ 277VAC 0.95/ 230VAC 0.97/ 115VAC	I/P: 277 VAC I/P: 230 VAC I/P: 115 VAC O/P: FULL LOAD Ta: 25°C	PF= 0.936 / 277VAC PF= 0.977 / 230VAC PF= 0.998 / 115VAC																												
P.F vs LOAD  <table border="1"><caption>P.F vs Load Data (Approximate)</caption><thead><tr><th>Load (%)</th><th>277V</th><th>230V</th><th>115V</th></tr></thead><tbody><tr><td>50%</td><td>0.80</td><td>0.92</td><td>1.00</td></tr><tr><td>60%</td><td>0.85</td><td>0.94</td><td>1.00</td></tr><tr><td>70%</td><td>0.88</td><td>0.96</td><td>1.00</td></tr><tr><td>80%</td><td>0.91</td><td>0.97</td><td>1.00</td></tr><tr><td>90%</td><td>0.93</td><td>0.98</td><td>1.00</td></tr><tr><td>100%</td><td>0.94</td><td>0.98</td><td>1.00</td></tr></tbody></table>					Load (%)	277V	230V	115V	50%	0.80	0.92	1.00	60%	0.85	0.94	1.00	70%	0.88	0.96	1.00	80%	0.91	0.97	1.00	90%	0.93	0.98	1.00	100%	0.94	0.98	1.00
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9	TOTAL HARMONIC DISTORTION	THD<10% (@load≥50%/115VAC, @load≥50%/230VAC, @load≥75%/277VAC)	I/P: 115 VAC/50% LOAD I/P: 230 VAC/50% LOAD I/P: 277 VAC/75% LOAD Ta: 25°C	THD=5.17% @50% load /115VAC THD=6.01% @50% load /230VAC THD=5.84% @75% load /277VAC																												
THD vs LOAD  <table border="1"><caption>THD vs Load Data (Approximate)</caption><thead><tr><th>Load (%)</th><th>277V (%)</th><th>230V (%)</th><th>115V (%)</th></tr></thead><tbody><tr><td>50%</td><td>9.5</td><td>6.0</td><td>5.2</td></tr><tr><td>60%</td><td>7.5</td><td>5.0</td><td>4.8</td></tr><tr><td>70%</td><td>6.5</td><td>4.0</td><td>4.5</td></tr><tr><td>80%</td><td>5.5</td><td>3.5</td><td>4.2</td></tr><tr><td>90%</td><td>5.5</td><td>3.0</td><td>4.1</td></tr><tr><td>100%</td><td>5.0</td><td>3.0</td><td>4.0</td></tr></tbody></table>					Load (%)	277V (%)	230V (%)	115V (%)	50%	9.5	6.0	5.2	60%	7.5	5.0	4.8	70%	6.5	4.0	4.5	80%	5.5	3.5	4.2	90%	5.5	3.0	4.1	100%	5.0	3.0	4.0
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PROTECTION FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	OVER CURRENT PROTECTION	95%~108%	I/P: 100VAC I/P: 230VAC I/P: 305VAC O/P: TESTING Ta: 25°C	100.8 %/ 100VAC 100.4 %/ 230VAC 100.6 %/ 305VAC Hiccup mode or Constant Current Limiting, recovers automatically after fault condition is removed
2	OVER VOLTAGE PROTECTION	13.5V~18V	I/P: 100VAC I/P: 230VAC I/P: 305VAC O/P: NO LOAD Ta: 25°C	17.07V/ 100VAC 16.98V/ 230VAC 17.03V/ 305VAC Shut down output voltage, re-power on to recovery
3	OVER TEMPERATURE PROTECTION	NO DAMAGE	I/P: 100VAC I/P: 230VAC I/P: 305VAC O/P: FULL LOAD	O.T.P. Active Shut down output voltage, re-power on to recovery
4	SHORT CIRCUIT PROTECTION	SHORT EVERY OUTPUT 1 HOUR NO DAMAGE	I/P: 100VAC I/P: 305VAC O/P: FULL LOAD Ta: 25°C	NO DAMAGE Hiccup mode, recovers automatically after fault condition is removed
5	INPUT OVER VOLTAGE (for XLG-200I only)	320 ~ 390VAC (Shut down output voltage when the input voltage exceeds protection voltage Can survive input voltage stress of 440Vac for 48 hours	I/P: TESTING O/P: FULL LOAD Ta:25°C	PASS

COMPONENT STRESS TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	PWM Power Transistor	Q 2 Rated 9A/600V	I/P: High-Line +3V =308V O/P: (1) Full Load Turn on (2) Output Short (3) Full load continue Ta: 25°C	(1) 452 V (2) 512 V (3) 456 V
2	Diode Peak Voltage	Q100 Rated 100A/40V	I/P: High-Line +3V =308V O/P: (1) Full Load Turn on (2) Output Short (3) Full load continue Ta: 25°C	(1) 23.3 V (2) 1.0 V (3) 23.4 V
3	PFC Transistor	Q1 Rated 20A/600V	I/P: High-Line +3V =308V O/P: (1) Full Load Turn on (2) Output Short (3) Full load continue Ta: 25°C	(1) 472 V (2) 480 V (3) 476 V
4	P.F.C DIODE	D1 Rated 9A/ 600V	I/P: High-Line +3V =308V O/P: (1) Full Load Turn on (2) Output Short (3) Full load continue Ta: 25°C	(1)484V (2)472V (3)464V

5	Control IC	U1 Rated 27V (MAX.)	I/P: High-Line +3V =308 V O/P: ((1) FULL LOAD (2) Output Short (3) O.L.P (4) O.V.P (5) Low Line No Load Vo(min) Ta: 25°C	(1) 11.9 V (2) 11.9 V (3) 11.9 V (4) 11.9 V (5) 11.9 V
6	Input Capacitor Voltage	C5 Rated: 100 μ / 450 V	I/P: High-Line +3V =308 V O/P: (1)Full Load input on/off (2) Min load input on /Off (3)Full Load /Min load Change (4)Full load continue Ta: 25°C	(1)441V (2)441V (3)454V (4)436V

SAFETY TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	WITHSTAND VOLTAGE	I/P-O/P: 3.75KVAC/min I/P-FG: 2 KVAC/min O/P-FG: 1.5KVAC/min	I/P-O/P: 4.125KVAC/min I/P-FG: 2.4 KVAC/min O/P-FG: 1.8 KVAC/min Ta: 25°C	I/P-O/P: 2.666 mA I/P-FG: 2.649 mA O/P-FG: 2.435 mA NO DAMAGE
2	ISOLATION RESISTANCE	I/P-O/P: 500VDC>100M Ω I/P-FG: 500VDC>100M Ω O/P-FG: 500VDC>100M Ω	I/P-O/P: 500 VDC I/P-FG: 500 VDC O/P-FG: 500 VDC Ta: 25°C	I/P-O/P: >9999 M Ω I/P-FG: >9999 M Ω O/P-FG: >9999 M Ω
3	GROUNDING CONTINUITY	FG(PE) TO CHASSIS OR TRACE < 100 m Ω	40A / 2min Ta:25°C	15 m Ω

E.M.C TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	HARMONIC	EN61000-3-2 CLASS C	I/P: 230 VAC/50HZ O/P: FULL/50% LOAD Ta: 25°C	PASS
2	CONDUCTION	EN55015	I/P: 230 VAC/50HZ O/P: FULL LOAD Ta: 25°C	PASS Test by certified Lab
3	RADIATION	EN55015	I/P: 230 VAC/50HZ O/P: FULL LOAD Ta: 25°C	PASS Test by certified Lab
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
5	E.F.T	EN61000-4-4 LIGHT INDUSTRY INPUT: 2KV	I/P: 230VAC/50HZ O/P: FULL LOAD Ta: 25°C	CRITERIA A

6	SURGE	EN61000-4-5 LIGHT INDUSTRY L-N: 4KV L,N-PE: 6KV	I/P: 230VAC/50HZ O/P: FULL LOAD Ta: 25°C	CRITERIA A
7	Test by certified Lab & Test Report Prepare. Any contradictions of the test results please refer to the latest EMC test report.			

■ RELIABILITY TEST

ENVIRONMENT TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT																																																																																																																				
1	TEMPERATURE RISE TEST	MODEL: XLG-200-12A 1. ROOM AMBIENT BURN-IN: 2 HRS I/P: 230VAC O/P: FULL LOAD Ta=28.4℃ 2. HIGH AMBIENT BURN-IN: 2 HRS I/P: 230VAC O/P: FULL LOAD Ta=53.0℃ <table><tr><th>NO</th><th>Position</th><th>ROOM AMBIENT Ta=28.4 ℃</th><th>HIGH AMBIENT Ta=53.0 ℃</th></tr><tr><td>1</td><td>ZNR3</td><td>67.6℃</td><td>87.5℃</td></tr><tr><td>2</td><td>ZNR2</td><td>55.9℃</td><td>79.9℃</td></tr><tr><td>3</td><td>ZNR3</td><td>57.9℃</td><td>82.8℃</td></tr><tr><td>4</td><td>LF2</td><td>57.8℃</td><td>82.6℃</td></tr><tr><td>5</td><td>C9</td><td>59.0℃</td><td>83.7℃</td></tr><tr><td>6</td><td>BD1</td><td>60.8℃</td><td>85.3℃</td></tr><tr><td>7</td><td>L2</td><td>59.4℃</td><td>84.7℃</td></tr><tr><td>8</td><td>Q1</td><td>58.8℃</td><td>83.5℃</td></tr><tr><td>9</td><td>D1</td><td>60.9℃</td><td>86.8℃</td></tr><tr><td>10</td><td>C5</td><td>57.4℃</td><td>82.2℃</td></tr><tr><td>11</td><td>C51</td><td>61.1℃</td><td>86.8℃</td></tr><tr><td>12</td><td>C15</td><td>60.5℃</td><td>86.2℃</td></tr><tr><td>13</td><td>C10</td><td>58.7℃</td><td>83.7℃</td></tr><tr><td>14</td><td>D15</td><td>60.5℃</td><td>86.2℃</td></tr><tr><td>15</td><td>R7</td><td>59.6℃</td><td>84.8℃</td></tr><tr><td>16</td><td>Q2</td><td>62.6℃</td><td>87.7℃</td></tr><tr><td>17</td><td>Q3</td><td>62.1℃</td><td>87.0℃</td></tr><tr><td>18</td><td>U1</td><td>57.7℃</td><td>82.3℃</td></tr><tr><td>19</td><td>U2</td><td>61.4℃</td><td>87.3℃</td></tr><tr><td>20</td><td>T1</td><td>67.0℃</td><td>94.4℃</td></tr><tr><td>21</td><td>U101</td><td>63.9℃</td><td>90.6℃</td></tr><tr><td>22</td><td>Q100</td><td>65.6℃</td><td>92.2℃</td></tr><tr><td>23</td><td>Q101</td><td>66.5℃</td><td>93.3℃</td></tr><tr><td>24</td><td>C106</td><td>64.6℃</td><td>91.5℃</td></tr><tr><td>25</td><td>C107</td><td>63.8℃</td><td>90.8℃</td></tr><tr><td>26</td><td>C109</td><td>61.1℃</td><td>87.3℃</td></tr><tr><td>27</td><td>RTH3</td><td>58.7℃</td><td>83.8℃</td></tr><tr><td>28</td><td>TC</td><td>55.3℃</td><td>80.1℃</td></tr></table>			NO	Position	ROOM AMBIENT Ta=28.4 ℃	HIGH AMBIENT Ta=53.0 ℃	1	ZNR3	67.6℃	87.5℃	2	ZNR2	55.9℃	79.9℃	3	ZNR3	57.9℃	82.8℃	4	LF2	57.8℃	82.6℃	5	C9	59.0℃	83.7℃	6	BD1	60.8℃	85.3℃	7	L2	59.4℃	84.7℃	8	Q1	58.8℃	83.5℃	9	D1	60.9℃	86.8℃	10	C5	57.4℃	82.2℃	11	C51	61.1℃	86.8℃	12	C15	60.5℃	86.2℃	13	C10	58.7℃	83.7℃	14	D15	60.5℃	86.2℃	15	R7	59.6℃	84.8℃	16	Q2	62.6℃	87.7℃	17	Q3	62.1℃	87.0℃	18	U1	57.7℃	82.3℃	19	U2	61.4℃	87.3℃	20	T1	67.0℃	94.4℃	21	U101	63.9℃	90.6℃	22	Q100	65.6℃	92.2℃	23	Q101	66.5℃	93.3℃	24	C106	64.6℃	91.5℃	25	C107	63.8℃	90.8℃	26	C109	61.1℃	87.3℃	27	RTH3	58.7℃	83.8℃	28	TC	55.3℃	80.1℃
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18	U1	57.7℃	82.3℃																																																																																																																					
19	U2	61.4℃	87.3℃																																																																																																																					
20	T1	67.0℃	94.4℃																																																																																																																					
21	U101	63.9℃	90.6℃																																																																																																																					
22	Q100	65.6℃	92.2℃																																																																																																																					
23	Q101	66.5℃	93.3℃																																																																																																																					
24	C106	64.6℃	91.5℃																																																																																																																					
25	C107	63.8℃	90.8℃																																																																																																																					
26	C109	61.1℃	87.3℃																																																																																																																					
27	RTH3	58.7℃	83.8℃																																																																																																																					
28	TC	55.3℃	80.1℃																																																																																																																					



2	LOW TEMPERATURE TURN ON TEST	TURN ON AFTER 2 HOUR	I/P: 305VAC/110VAC O/P: 100% LOAD Ta= -45°C / -35°C	TEST: OK
3	HIGH HUMIDITY HIGH TEMPERATURE HIGH VOLTAGE TURN ON TEST	AFTER 12 HOURS IN CHAMBER ON CONTROL 50°C NO DAMAGE	I/P: 305VAC O/P: FULL LOAD Ta=50°C HUMIDITY= 95 %R.H	TEST: OK
4	TEMPERATURE COEFFICIENT	±0.03 %/°C (0~60°C)	I/P: 230 VAC O/P: FULL LOAD	±0.014 %/°C (0~60°C)
5	STORAGE TEMPERATURE TEST	-40°C ~ +90°C	1. Thermal shock Temperature: -50°C ~ +125°C 2. Temperature change rate : 25°C / MIN 3. Dwell time low and high temperature : 30 MIN/EACH 4. Total test cycle: 200CYCLE 5. Input/Output condition: STATIC TEST: OK	
6	THERMAL SHOCK TEST	-40~+50°C	1. Thermal shock Temperature: -45°C ~ +55°C 2. Temperature change rate : 25°C / MIN 3. Dwell time low and high temperature : 30 MIN/EACH 4. Total test cycle: 16CYCLE 5. Input/Output condition: 15cycle:230VAC/ FULL LOAD AC on 3 sec/AC off 1 sec TEST 1cycle:230VAC/ FULL LOAD Burn In Test TEST: OK	
7	VIBRATION TEST	10~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes	1 Carton & 1 Set (1) Waveform: Sine Wave (2) Frequency: 10~500Hz (3) Sweep Time: 12min/sweep cycle (4) Acceleration: 6G (5) Test Time: 72min in each axis (X.Y.Z) (6) Ta: 25°C TEST: OK	
8	CAPACITOR LIFE CYCLE	XLG-200-12: SUPPOSE C106 IS THE MOST CRITICAL COMPONENT (1) I/P: 230VAC O/P: FULL LOAD Tc= 70 °C LIFE TIME (2) I/P: 230VAC O/P: 75% LOAD Tc= 70 °C LIFE TIME (3) I/P: 230VAC O/P: 50% LOAD Tc= 70 °C LIFE TIME		(1) 33088 HRS (2) 66904 HRS (3) 108133 HRS
9	MTBF	Conducted by Parts Stress Analysis Prediction 749.06K hrs min. Telcordia SR-332 (Bellcore) 200.67K hrs min. MIL-HDBK-217F (25°C)		
10	Ongoing Reliability Test	I/P: 230VAC O/P: FULL LOAD TA=50°C Demonstration Mean Time Between Failure : 50,000 hours		

TEST RESULT	TESTER	REVIEW	APPROVAL
PASS	WUWQ/ZHOUB	WENF	LIUWY