



Test Report: **XLG-100-12**

100W 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

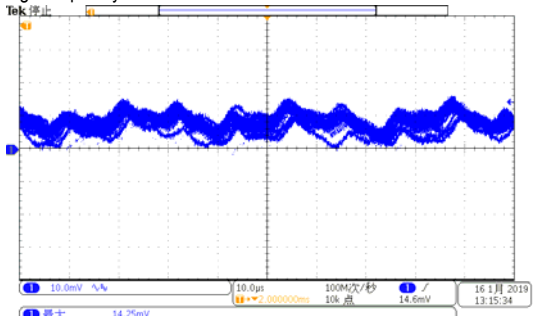
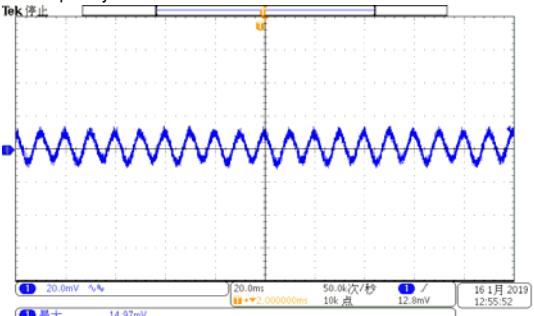
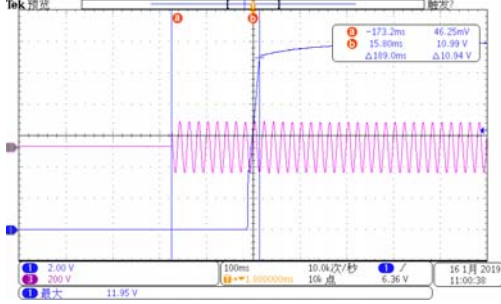
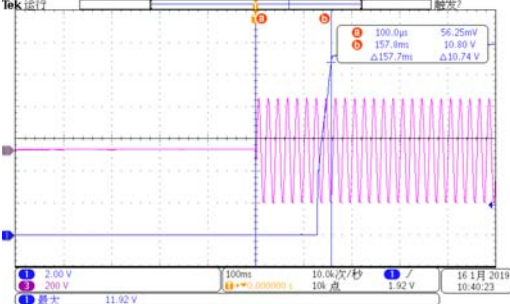
E.M.C. Test

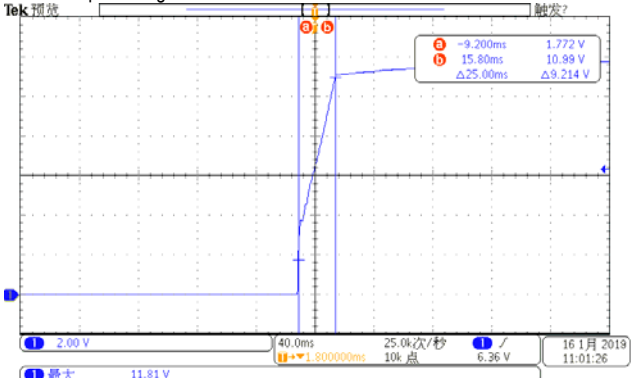
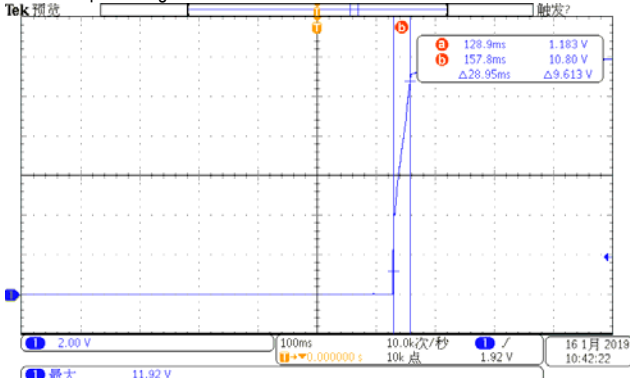
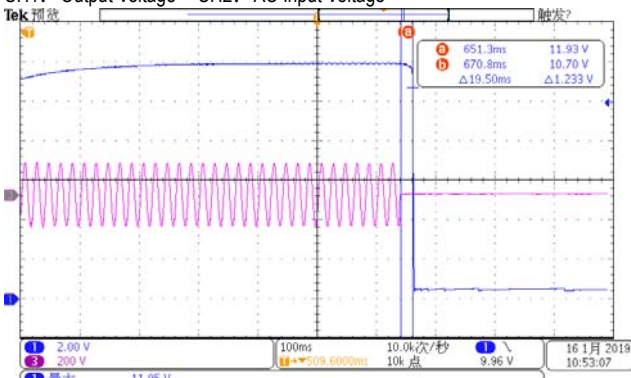
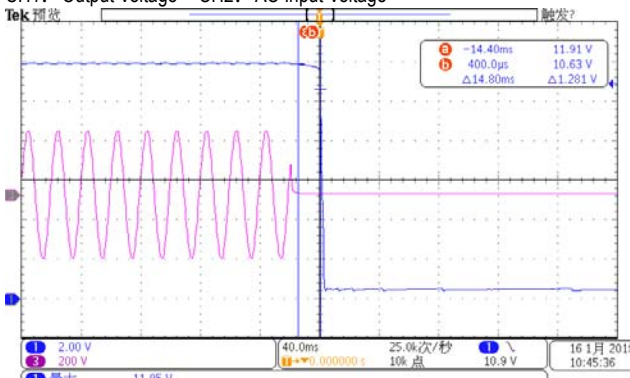
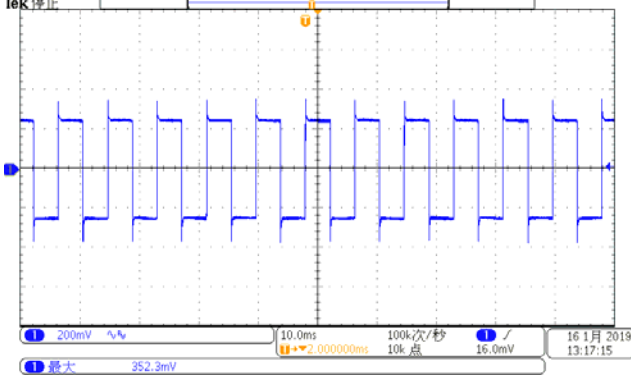
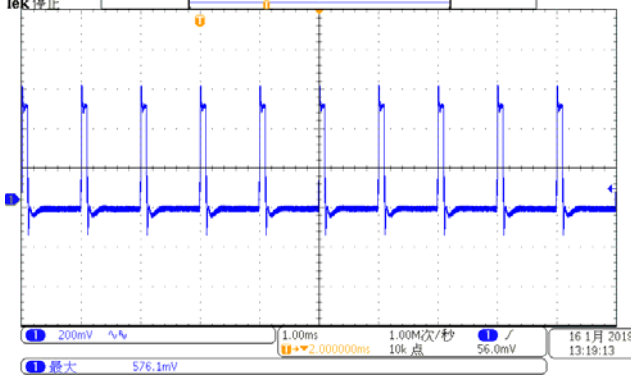
■ RELIABILITY TEST

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	4A~8A	I/P: 230VAC O/P: SETTING Ta: 25°C	3.8A~9.6A
3	VOLTAGE TOLERANCE	-3%~+3%	I/P: 90VAC / 305VAC O/P: FULL/ NO LOAD Ta: 25°C	-0.17%~ 0.75%
4	LINE REGULATION	-0.5%~+0.5%	I/P: 90VAC ~ 305VAC O/P: FULL LOAD Ta: 25°C	0%~0.08%
5	LOAD REGULATION	-2%~+2%	I/P: 230VAC O/P: FULL ~NO LOAD Ta: 25°C	-0.25%~ 0.335%
6	OVER/UNDERSHOOT TEST	<± 5 %	I/P: 230VAC O/P: FULL LOAD Ta: 25°C	± 0.6%
7	CONSTANT POWER	O/P: 96W	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	14.97mVp-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/ 189 ms 230VAC/ 157 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 				

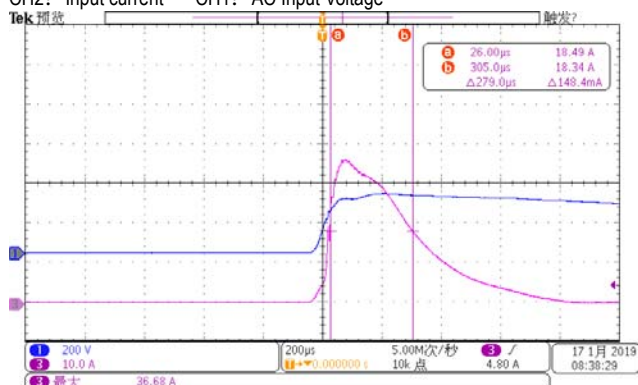
10	RISE TIME (Max)	115VAC/ 100ms 230VAC/ 100ms	I/P: 115 VAC I/P: 230 VAC O/P: FULL LOAD Ta: 25°C	115VAC/ 25 ms 230VAC/ 29 ms
	INPUT=115VAC/50HZ @ FULL LOAD CH1: Output Voltage 		INPUT=230VAC/50HZ @ FULL LOAD CH1: Output Voltage 	
11	HOLD UP TIME(Typ)	115VAC/ 12ms 230VAC/ 12ms	I/P: 115 VAC I/P: 230 VAC O/P: FULL LOAD Ta: 25°C	120VAC/ 19.5 ms 230VAC/ 14.8 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) 352mVp-p (2) 576mVp-p
	FULL /50% LOAD 50%DUTY / 120HZ 		FULL /50% LOAD 50%DUTY / 1KHZ 	

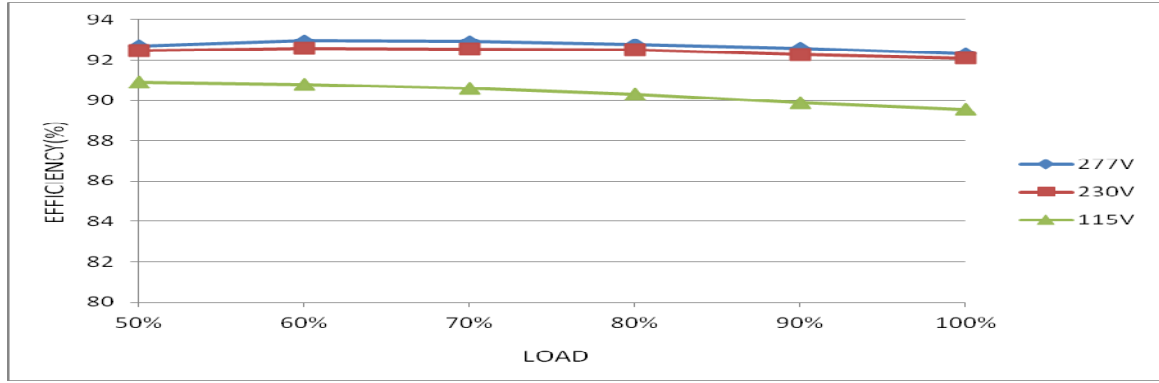
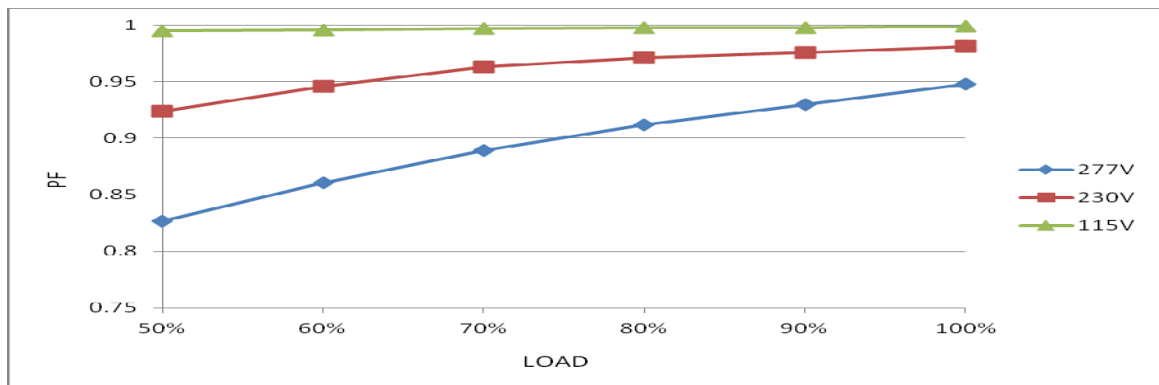
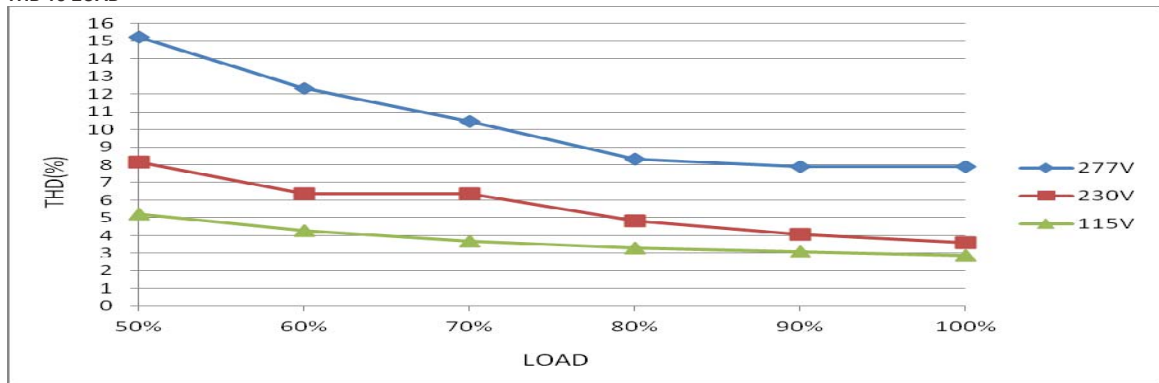
INPUT FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	INPUT VOLTAGE RANGE	100VAC~305VAC	I/P: TESTING O/P: FULL LOAD Ta: 25°C	97 V~ 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	0.42A/277VAC 0.5A/230VAC 1.1A/115VAC	I/P: 277 VAC I/P: 230 VAC I/P: 115 VAC O/P: FULL LOAD Ta: 25°C	I=0.37 A/ 277VAC I=0.43 A/ 230VAC I=0.86 A/ 115VAC
4	LEAKAGE CURRENT	< 0.75mA / 277VAC	I/P: 277 VAC O/P: NO LOAD Ta: 25°C	L-FG: 0.435 mA N-FG: 0.434 mA
5	NO LOAD CONSUMPTION	<0.5W	I/P: 230VAC O/P: NO LOAD Ta: 25°C	0.37W
6	INRUSH CURRENT(Typ)	230VAC/ 50A COLD START (twidth=300us measured at 50% Ipeak) COLD START at 230V	I/P: 230 VAC O/P: FULL LOAD Ta: 25°C	I = 36.68A/ 277VAC Twidth =279 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	92.64%																												
EFFICIENCY vs LOAD  <table><thead><tr><th>LOAD</th><th>277V</th><th>230V</th><th>115V</th></tr></thead><tbody><tr><td>50%</td><td>92.8</td><td>92.6</td><td>91.0</td></tr><tr><td>60%</td><td>93.0</td><td>92.8</td><td>90.8</td></tr><tr><td>70%</td><td>93.0</td><td>92.8</td><td>90.6</td></tr><tr><td>80%</td><td>92.8</td><td>92.6</td><td>90.4</td></tr><tr><td>90%</td><td>92.6</td><td>92.4</td><td>90.0</td></tr><tr><td>100%</td><td>92.4</td><td>92.2</td><td>89.6</td></tr></tbody></table>					LOAD	277V	230V	115V	50%	92.8	92.6	91.0	60%	93.0	92.8	90.8	70%	93.0	92.8	90.6	80%	92.8	92.6	90.4	90%	92.6	92.4	90.0	100%	92.4	92.2	89.6
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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= 0.951 / 277VAC PF= 0.975 / 230VAC PF= 0.998 / 115VAC																												
P.F vs LOAD  <table><thead><tr><th>LOAD</th><th>277V</th><th>230V</th><th>115V</th></tr></thead><tbody><tr><td>50%</td><td>0.83</td><td>0.92</td><td>1.00</td></tr><tr><td>60%</td><td>0.86</td><td>0.94</td><td>1.00</td></tr><tr><td>70%</td><td>0.89</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>0.975</td><td>1.00</td></tr><tr><td>100%</td><td>0.95</td><td>0.98</td><td>1.00</td></tr></tbody></table>					LOAD	277V	230V	115V	50%	0.83	0.92	1.00	60%	0.86	0.94	1.00	70%	0.89	0.96	1.00	80%	0.91	0.97	1.00	90%	0.93	0.975	1.00	100%	0.95	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=5.19% @50% load /115VAC THD=8.17% @50% load /230VAC THD=9.12% @75% load /277VAC																												
THD vs LOAD  <table><thead><tr><th>LOAD</th><th>277V</th><th>230V</th><th>115V</th></tr></thead><tbody><tr><td>50%</td><td>15.5</td><td>8.2</td><td>5.2</td></tr><tr><td>60%</td><td>12.5</td><td>6.5</td><td>4.5</td></tr><tr><td>70%</td><td>10.5</td><td>6.5</td><td>3.8</td></tr><tr><td>80%</td><td>8.5</td><td>5.0</td><td>3.5</td></tr><tr><td>90%</td><td>8.0</td><td>4.2</td><td>3.2</td></tr><tr><td>100%</td><td>8.0</td><td>3.8</td><td>3.0</td></tr></tbody></table>					LOAD	277V	230V	115V	50%	15.5	8.2	5.2	60%	12.5	6.5	4.5	70%	10.5	6.5	3.8	80%	8.5	5.0	3.5	90%	8.0	4.2	3.2	100%	8.0	3.8	3.0
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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	101.5 %/ 100VAC 101.2 %/ 230VAC 101.5 %/ 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	15.11V/ 100VAC 15.06V/ 230VAC 15.0V/ 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 or Constant Current Limiting, recovers automatically after fault condition is removed
5	INPUT OVER VOLTAGE (for XLG-75I 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 6A/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) 443 V (2) 453 V (3) 440 V
2	Diode Peak Voltage	Q100 Rated 40V/70A	I/P: High-Line +3V =308V O/P: (1) Full Load Turn on (2) Output Short (3) Full load continue Ta: 25°C	(1) 29.2 V (2) 10.5 V (3) 28.2 V
3	PFC Transistor	Q1 Rated 700V/12.5A	I/P: High-Line +3V =308V O/P: (1) Full Load Turn on (2) Output Short (3) Full load continue Ta: 25°C	(1) 475 V (2) 470 V (3) 474 V
4	P.F.C DIODE	D5 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)442V (2)450V (3)422V

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: 47 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)446V (2)439V (3)445V (4)439V

SAFETY TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	WITHSTAND VOLTAGE	I/P-O/P: 3.75KVAC/min I/P-FG: 2KVAC/min O/P-FG: 1.5KVAC/min	I/P-O/P: 4.125 KVAC/min I/P-FG: 2.4 KVAC/min O/P-FG: 1.8 KVAC/min Ta: 25°C	I/P-O/P: 3.309 mA I/P-FG: 3.558 mA O/P-FG: 2.884 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	18 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-100-12A 1. ROOM AMBIENT BURN-IN: 2 HRS I/P: 230VAC O/P: FULL LOAD Ta=25.4℃ 2. HIGH AMBIENT BURN-IN: 2 HRS I/P: 230VAC O/P: FULL LOAD Ta=60.8℃ <table><thead><tr><th>NO</th><th>Position</th><th>ROOM AMBIENT Ta=25.4 ℃</th><th>HIGH AMBIENT Ta=60.8 ℃</th></tr></thead><tbody><tr><td>1</td><td>ZNR3</td><td>48.0℃</td><td>78.6℃</td></tr><tr><td>2</td><td>C1</td><td>45.5℃</td><td>76.5℃</td></tr><tr><td>3</td><td>RTH1</td><td>57.4℃</td><td>85.5℃</td></tr><tr><td>4</td><td>LF2</td><td>51.2℃</td><td>81.3℃</td></tr><tr><td>5</td><td>ZNR4</td><td>45.2℃</td><td>76.4℃</td></tr><tr><td>6</td><td>BD1</td><td>52.5℃</td><td>83.0℃</td></tr><tr><td>7</td><td>C10</td><td>51.6℃</td><td>81.9℃</td></tr><tr><td>8</td><td>L2</td><td>55.9℃</td><td>86.9℃</td></tr><tr><td>9</td><td>Q1</td><td>56.8℃</td><td>87.4℃</td></tr><tr><td>10</td><td>C5</td><td>56.0℃</td><td>86.1℃</td></tr><tr><td>11</td><td>D4</td><td>53.0℃</td><td>84.1℃</td></tr><tr><td>12</td><td>D5</td><td>54.1℃</td><td>85.3℃</td></tr><tr><td>13</td><td>Q2</td><td>58.1℃</td><td>90.9℃</td></tr><tr><td>14</td><td>Q3</td><td>57.6℃</td><td>90.3℃</td></tr><tr><td>15</td><td>R7</td><td>53.3℃</td><td>83.9℃</td></tr><tr><td>16</td><td>U1</td><td>55.7℃</td><td>86.4℃</td></tr><tr><td>17</td><td>U2</td><td>59.2℃</td><td>89.7℃</td></tr><tr><td>18</td><td>C15</td><td>54.5℃</td><td>85.1℃</td></tr><tr><td>19</td><td>T1</td><td>64.7℃</td><td>96.2℃</td></tr><tr><td>20</td><td>Q100</td><td>60.5℃</td><td>93.0℃</td></tr><tr><td>21</td><td>Q101</td><td>62.7℃</td><td>95.0℃</td></tr><tr><td>22</td><td>U101</td><td>58.1℃</td><td>90.1℃</td></tr><tr><td>23</td><td>C105</td><td>57.2℃</td><td>88.8℃</td></tr><tr><td>24</td><td>C106</td><td>56.7℃</td><td>88.3℃</td></tr><tr><td>25</td><td>RTH3</td><td>53.4℃</td><td>84.1℃</td></tr><tr><td>26</td><td>TC</td><td>49.9℃</td><td>80.6℃</td></tr></tbody></table>			NO	Position	ROOM AMBIENT Ta=25.4 ℃	HIGH AMBIENT Ta=60.8 ℃	1	ZNR3	48.0℃	78.6℃	2	C1	45.5℃	76.5℃	3	RTH1	57.4℃	85.5℃	4	LF2	51.2℃	81.3℃	5	ZNR4	45.2℃	76.4℃	6	BD1	52.5℃	83.0℃	7	C10	51.6℃	81.9℃	8	L2	55.9℃	86.9℃	9	Q1	56.8℃	87.4℃	10	C5	56.0℃	86.1℃	11	D4	53.0℃	84.1℃	12	D5	54.1℃	85.3℃	13	Q2	58.1℃	90.9℃	14	Q3	57.6℃	90.3℃	15	R7	53.3℃	83.9℃	16	U1	55.7℃	86.4℃	17	U2	59.2℃	89.7℃	18	C15	54.5℃	85.1℃	19	T1	64.7℃	96.2℃	20	Q100	60.5℃	93.0℃	21	Q101	62.7℃	95.0℃	22	U101	58.1℃	90.1℃	23	C105	57.2℃	88.8℃	24	C106	56.7℃	88.3℃	25	RTH3	53.4℃	84.1℃	26	TC	49.9℃	80.6℃
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8	L2	55.9℃	86.9℃																																																																																																													
9	Q1	56.8℃	87.4℃																																																																																																													
10	C5	56.0℃	86.1℃																																																																																																													
11	D4	53.0℃	84.1℃																																																																																																													
12	D5	54.1℃	85.3℃																																																																																																													
13	Q2	58.1℃	90.9℃																																																																																																													
14	Q3	57.6℃	90.3℃																																																																																																													
15	R7	53.3℃	83.9℃																																																																																																													
16	U1	55.7℃	86.4℃																																																																																																													
17	U2	59.2℃	89.7℃																																																																																																													
18	C15	54.5℃	85.1℃																																																																																																													
19	T1	64.7℃	96.2℃																																																																																																													
20	Q100	60.5℃	93.0℃																																																																																																													
21	Q101	62.7℃	95.0℃																																																																																																													
22	U101	58.1℃	90.1℃																																																																																																													
23	C105	57.2℃	88.8℃																																																																																																													
24	C106	56.7℃	88.3℃																																																																																																													
25	RTH3	53.4℃	84.1℃																																																																																																													
26	TC	49.9℃	80.6℃																																																																																																													
2	LOW TEMPERATURE TURN ON TEST	TURN ON AFTER 2 HOUR	I/P: 305VAC/100VAC O/P: 100% LOAD Ta= -45℃ / -35℃	TEST: OK																																																																																																												



3	HIGH HUMIDITY HIGH TEMPERATURE HIGH VOLTAGE TURN ON TEST	AFTER 12 HOURS IN CHAMBER ON CONTROL 60°C NO DAMAGE	I/P: 305VAC O/P: FULL LOAD Ta=60°C HUMIDITY= 95 %R.H	TEST: OK
4	TEMPERATURE COEFFICIENT	±0.03 %/°C (0~60°C)	I/P: 230 VAC O/P: FULL LOAD	±0.003 %/°C (0~60°C)
5	STORAGE TEMPERATURE TEST	-40°C~ +80°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~+60°C	1. Thermal shock Temperature: -45°C~ +65°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-100-12: SUPPOSE C105 IS THE MOST CRITICAL COMPONENT (1) I/P: 230VAC O/P: FULL LOAD Tc= 80 °C LIFE TIME (2) I/P: 230VAC O/P: 75% LOAD Tc= 80 °C LIFE TIME (3) I/P: 230VAC O/P: 50% LOAD Tc= 80 °C LIFE TIME		(1) 32000 HRS (2) 49887 HRS (3) 65455 HRS
9	MTBF	Conducted by Parts Stress Analysis Prediction 1006.1K hrs min. Telcordia SR-332 (Bellcore) 276.37K 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