



# Test Report: XLG-50

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50W Constant Current 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

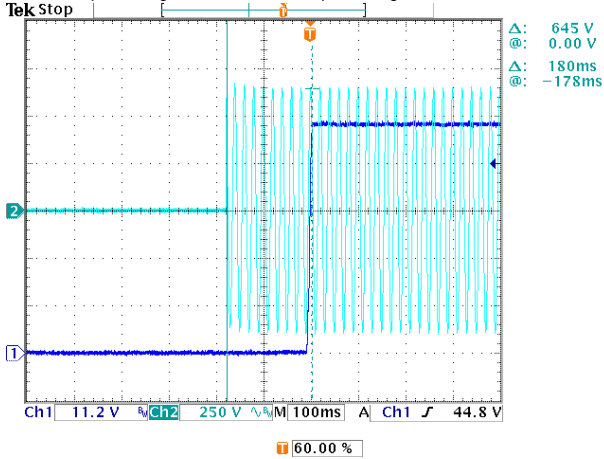
## DESIGN VERIFY TEST

### OUTPUT FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	CONSTANT CURRENT REGION	22V-54V	I/P: 230VAC O/P: LED MODE Ta: 25°C	12.3V-56.2V
2	OUTPUT CURRENT ADJUST RANGE	0.53-2.1A	I/P: 230VAC O/P: SETTING Ta: 25°C	0.461 A- 2.232 A
3	CURRENT RIPPLE	5.0% max.@rated current	I/P: 230VAC O/P: FULL/MIN LOAD Ta: 25°C	2.26%
4	OPEN CIRCUIT VOLTAGE (max)	57V	I/P: 230VAC O/P: NO LOAD Ta: 25°C	56.4V
5	SET UP TIME	500ms/230VAC 500ms/115VAC	I/P: 230 VAC I/P: 115 VAC O/P: FULL LOAD Ta: 25°C	180ms/230VAC 258ms/115VAC

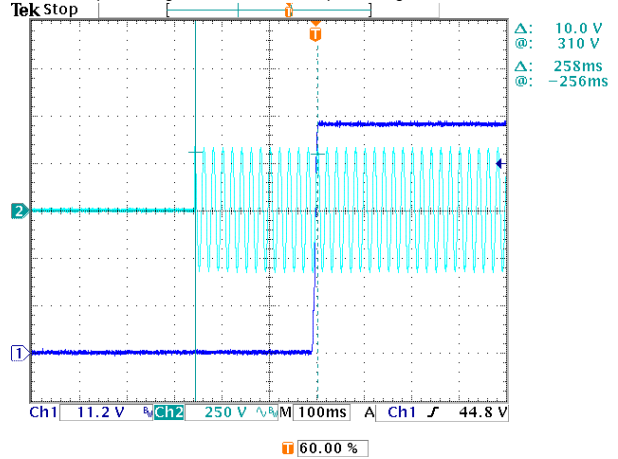
INPUT=230VAC/50HZ @ FULL LOAD

CH1: Output Voltage CH2: AC Input Voltage

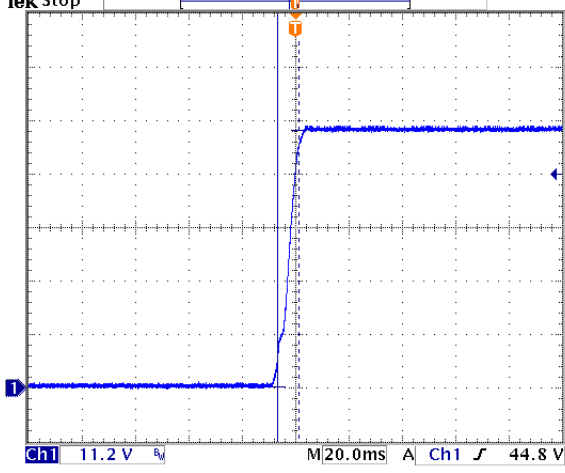
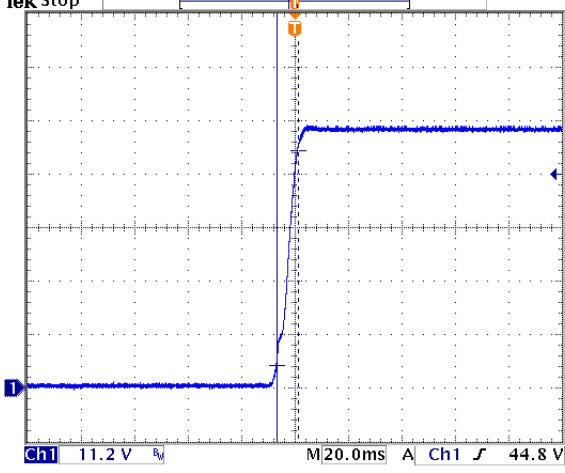


INPUT=115VAC/60HZ @ 75% LOAD

CH1: Output Voltage CH2: AC Input Voltage





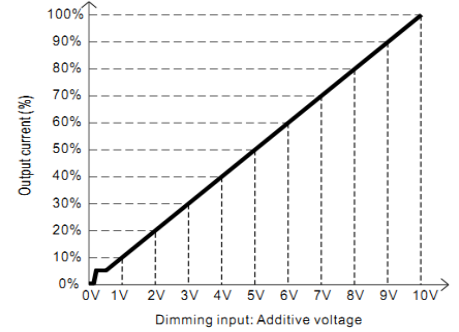
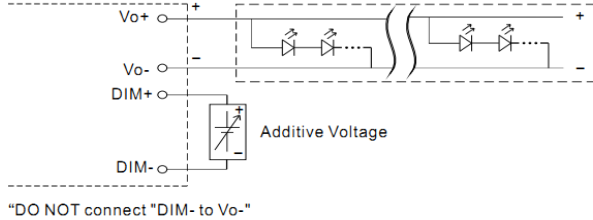
6	RISE TIME	100ms/230VAC 100ms/115VAC	I/P: 230 VAC I/P: 115 VAC O/P: FULL LOAD Ta: 25°C	8.0ms/230VAC 8.0ms/115VAC
<p>INPUT=230VAC/50HZ @ FULL LOAD</p> <p>CH1: Output Voltage    CH2: AC Input Voltage</p> <p>Tek Stop</p>  <p>Δ: 53.8 V @: 224mV Δ: 8.00ms @: -6.80ms</p> <p>Ch1 11.2 V    M20.0ms    A Ch1 44.8 V</p> <p>50.00 %</p>		<p>INPUT=115VAC/60HZ @ 75% LOAD</p> <p>CH1: Output Voltage    CH2: AC Input Voltage</p> <p>Tek Stop</p>  <p>Δ: 45.0 V @: 4.70 V Δ: 8.00ms @: -6.80ms</p> <p>Ch1 11.2 V    M20.0ms    A Ch1 44.8 V</p> <p>50.00 %</p>		
7	CONSTANT POWER	O/P: 50W	I/P: 230 VAC O/P: $V_o \times I_o$	TEST: OK

8 DIMMING OPERATION

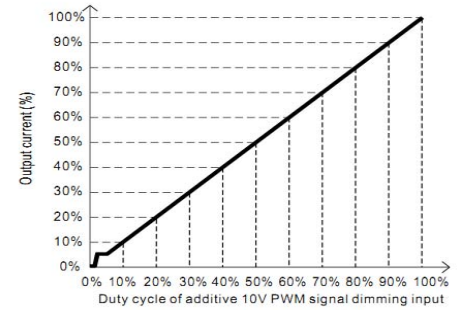
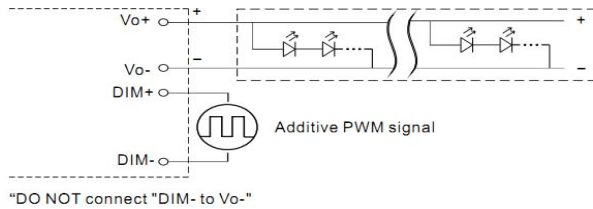
※ 3 in 1 dimming function (for AB-Type)

- Output constant current level can be adjusted by applying one of the three methodologies between DIM+ and DIM-: 0 ~ 10Vdc, or 10V PWM signal or resistance.
- Direct connecting to LEDs is suggested. It is not suitable to be used with additional drivers.
- Dimming source current from power supply: 100uA (typ.)

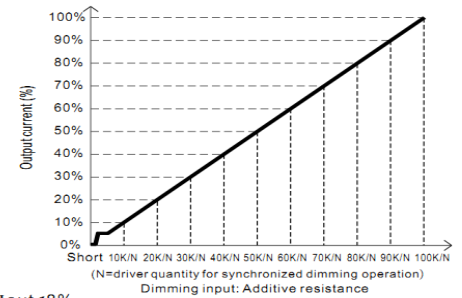
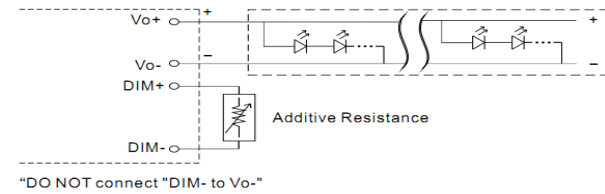
◎ Applying additive 0 ~ 10VDC



◎ Applying additive 10V PWM signal (frequency range 100Hz ~ 3KHz):



◎ Applying additive resistance:



Note : 1. Min. dimming level is about 8% and the output current is not defined when  $0\% < I_{out} < 8\%$ .  
 2. The output current could drop down to 0% when dimming input is about  $0k\ \Omega$  or 0Vdc, or 10V PWM signal with 0% duty cycle.

I/P: 230 VAC

O/P: DIMMING TEST

Ta: 25°C

	v	Short	1V	2V	3V	4V	5V	6V	7V	8V	9V	10V	OPEN
1	Output Current	0	0.096 A	0.194A	0.282A	0.373A	0.482A	0.579A	0.678A	0.799A	0.914A	1.000A	1.000A
	%	0%	9.60%	19.40%	28.20%	37.30%	48.20%	57.90%	67.80%	79.90%	91.40%	100.00%	100.00%
2	PWM(100Hz)	0V	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	OPEN
	Output Current	0	0.095 A	0.187A	0.280A	0.377A	0.478A	0.582A	0.690A	0.806A	0.927A	1.023A	1.024A
	%	0%	9.50%	18.70%	28.00%	37.70%	47.80%	58.20%	69.00%	80.60%	92.70%	102.30%	102.40%
3	R	0%	10K	20K	30K	40K	50K	60K	70K	80K	90K	100K	OPEN
	Output Current	0	0.094 A	0.191A	0.278A	0.368A	0.476A	0.573A	0.689A	0.793A	0.901A	0.999A	1.001A
	%	0%	9.40%	19.10%	27.80%	36.80%	47.60%	57.30%	68.90%	79.30%	90.10%	99.90%	100.10%

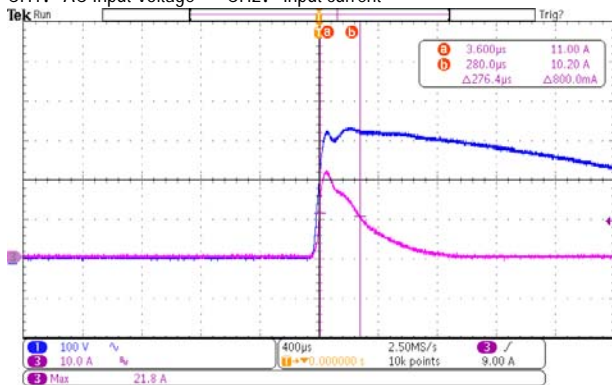
TEST RESULT: OK

## INPUT FUNCTION TEST

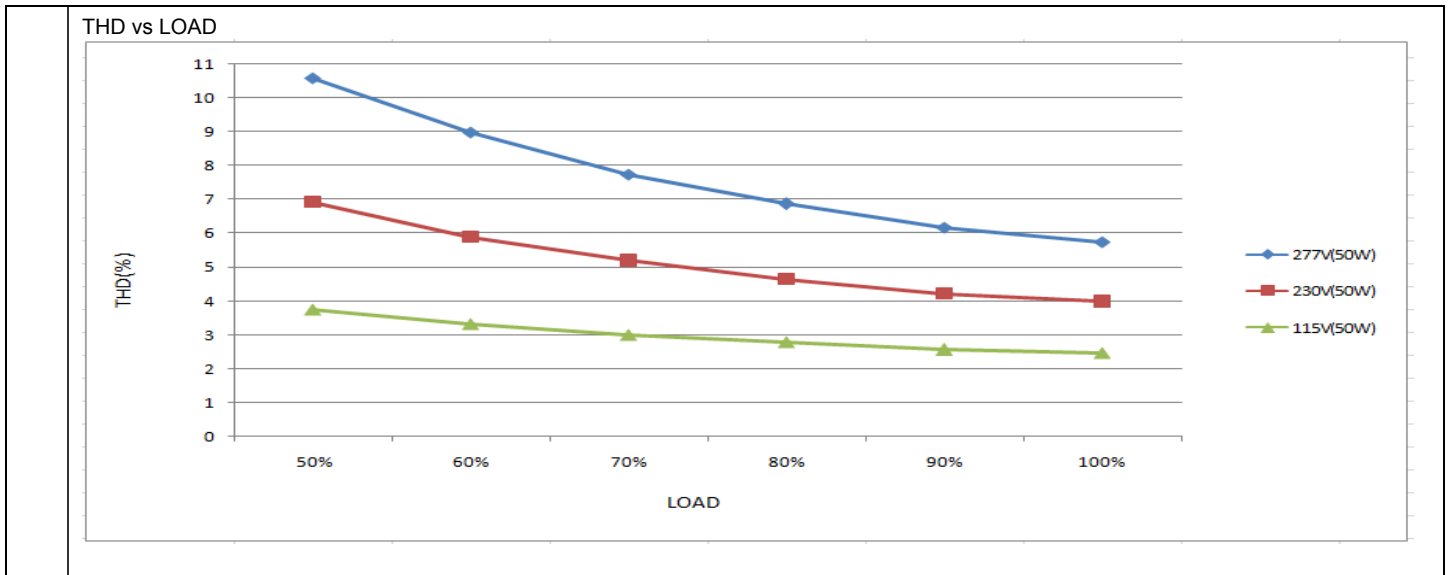
NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	INPUT VOLTAGE RANGE	90VAC-305VAC	I/P: TESTING O/P: FULL LOAD Ta: 25°C	90V-305V
			I/P: (1)LOW-LINE-3V=87 V HIGH-LINE+10V=315 V O/P: FULL/MIN LOAD ON: 30 Sec OFF: 30 Sec 10MIN (2)230VAC ON: 0.5 Sec OFF: 0.5 Sec 20MIN ( POWER ON/OFF NO DAMAGE )	TEST: OK
2	INPUT FREQUENCY RANGE	47HZ -63 HZ NO DAMAGE	I/P: 90 VAC -305 VAC O/P: FULL-MIN LOAD Ta: 25°C	TEST: OK
3	AC CURRENT	0.57A/115VAC 0.29A/230VAC 0.24A/277VAC	I/P: 115 VAC I/P: 230 VAC I/P: 277 VAC O/P: FULL LOAD Ta: 25°C	I =0.533A/ 115VAC I =0.264A/ 230VAC I =0.224A/ 277VAC
4	LEAKAGE CURRENT	< 0.75mA / 277VAC	I/P: 277 VAC O/P: NO LOAD Ta: 25°C	L-CASE: 0.320 mA N-CASE: 0.320 mA
5	NO LOAD/STANDBY POWER CONSUMPTION	NO LOAD POWER CONSUMPTION <0.5W for A, <0.75W for I series STANDBY POWER CONSUMPTION <0.5W for AB	I/P: 230VAC O/P: NO LOAD/STANDBY Ta: 25°C	0.431W for A 0.513W for I 0.242W for AB
6	INRUSH CURRENT(Typ)	50A/230VAC Twidth =350 us measured at 50% Ipeak COLD START	I/P: 230 VAC O/P: FULL LOAD Ta: 25°C	I =21.8A/ 230VAC Twidth =276.4us

INPUT=230VAC/50HZ @ FULL LOAD

CH1: AC Input Voltage CH2: Input current



7	EFFICIENCY(Typ)	90%	I/P: 230VAC O/P: FULL LOAD Ta: 25°C	90.81%																																												
<p><b>EFFICIENCY vs LOAD</b></p> <table border="1"> <caption>Efficiency vs Load Data</caption> <thead> <tr> <th>LOAD (%)</th> <th>277V (50W) (%)</th> <th>230V (50W) (%)</th> <th>115V (50W) (%)</th> </tr> </thead> <tbody> <tr><td>10%</td><td>72.5</td><td>74.5</td><td>72.5</td></tr> <tr><td>20%</td><td>81.5</td><td>81.5</td><td>81.5</td></tr> <tr><td>30%</td><td>85.5</td><td>85.5</td><td>85.5</td></tr> <tr><td>40%</td><td>87.5</td><td>87.5</td><td>86.5</td></tr> <tr><td>50%</td><td>88.0</td><td>88.0</td><td>86.5</td></tr> <tr><td>60%</td><td>89.5</td><td>89.5</td><td>88.0</td></tr> <tr><td>70%</td><td>89.5</td><td>89.5</td><td>87.8</td></tr> <tr><td>80%</td><td>90.5</td><td>90.5</td><td>88.2</td></tr> <tr><td>90%</td><td>91.0</td><td>91.0</td><td>88.5</td></tr> <tr><td>100%</td><td>91.0</td><td>91.0</td><td>88.5</td></tr> </tbody> </table>					LOAD (%)	277V (50W) (%)	230V (50W) (%)	115V (50W) (%)	10%	72.5	74.5	72.5	20%	81.5	81.5	81.5	30%	85.5	85.5	85.5	40%	87.5	87.5	86.5	50%	88.0	88.0	86.5	60%	89.5	89.5	88.0	70%	89.5	89.5	87.8	80%	90.5	90.5	88.2	90%	91.0	91.0	88.5	100%	91.0	91.0	88.5
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8	POWER FACTOR	0.92/277 VAC 0.95/230 VAC 0.97/115 VAC	I/P: 115 VAC I/P: 230 VAC I/P: 277 VAC O/P: FULL LOAD Ta: 25°C	PF=0.998 /115VAC PF=0.983 /230VAC PF=0.955 /277VAC																																												
<p><b>P.F vs LOAD</b></p> <table border="1"> <caption>P.F vs Load Data</caption> <thead> <tr> <th>LOAD (%)</th> <th>277V (50W)</th> <th>230V (50W)</th> <th>115V (50W)</th> </tr> </thead> <tbody> <tr><td>10%</td><td>0.45</td><td>0.60</td><td>0.88</td></tr> <tr><td>20%</td><td>0.60</td><td>0.80</td><td>0.95</td></tr> <tr><td>30%</td><td>0.75</td><td>0.88</td><td>0.97</td></tr> <tr><td>40%</td><td>0.82</td><td>0.92</td><td>0.98</td></tr> <tr><td>50%</td><td>0.87</td><td>0.94</td><td>0.98</td></tr> <tr><td>60%</td><td>0.90</td><td>0.95</td><td>0.98</td></tr> <tr><td>70%</td><td>0.92</td><td>0.96</td><td>0.98</td></tr> <tr><td>80%</td><td>0.94</td><td>0.97</td><td>0.98</td></tr> <tr><td>90%</td><td>0.95</td><td>0.97</td><td>0.98</td></tr> <tr><td>100%</td><td>0.95</td><td>0.97</td><td>0.98</td></tr> </tbody> </table>					LOAD (%)	277V (50W)	230V (50W)	115V (50W)	10%	0.45	0.60	0.88	20%	0.60	0.80	0.95	30%	0.75	0.88	0.97	40%	0.82	0.92	0.98	50%	0.87	0.94	0.98	60%	0.90	0.95	0.98	70%	0.92	0.96	0.98	80%	0.94	0.97	0.98	90%	0.95	0.97	0.98	100%	0.95	0.97	0.98
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9	TOTAL HARMONIC DISTORTION	THD<10% (@load≥50%/115VAC, 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=3.74% @50% load /115VAC THD=6.91% @50% load /230VAC THD=7.29% @75% load /277VAC																																												



## PROTECTION FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	OVER TEMPERATURE PROTECTION	NO DAMAGE	I/P: 90VAC I/P: 305VAC O/P: FULL LOAD	O.T.P. Active PROTECTION TYPE : Hiccup mode, recovers automatically after fault condition is removed
2	OVER POWER PROTECTION	110%-150%	I/P: 90VAC I/P: 230VAC I/P: 305VAC O/P: FULL LOAD Ta: 25°C	131.2%/ 305VAC 130.4%/ 230VAC 131%/ 90VAC PROTECTION TYPE: recovers automatically after fault condition is removed
3	SHORT PROTECTION	SHORT EVERY OUTPUT 1 HOUR NO DAMAGE	I/P: 305 VAC I/P: 90 VAC O/P: FULL LOAD Ta:25°C	NO DAMAGE PROTECTION TYPE : Constant current limiting, recovers automatically after fault condition is removed
4	INPUT OVP (for XLG-25I only)	320 ~ 370VAC (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 (D to S) or (C to E) Peak Voltage	Q2 Rated 4.5A 800V	I/P: High-Line +3V =308V O/P: (1) FULL LOAD Turn on (2) Output Short (3) FULL LOAD continue Ta: 25°C	(1) 700 V (2) 564 V (3) 695 V
2	P.F.C Transistor (D to S) or (C to E) Peak Voltage	Q1 Rated: 12.8A/700V	I/P: High-Line +3V =308V O/P: (1) FULL LOAD Turn on (2) Output Short (3) FULL LOAD continue Ta: 25°C	(1) 470 V (2) 478 V (3) 466 V

3	P.F.C DIODE	D4 Rated: 3A/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)476 V (3)472 V
4	Diode Peak Voltage	D100 Rated 10A/200V	I/P: High-Line +3V =308V O/P: (1) FULL LOAD Turn on (2) Output Short (3) FULL LOAD continue Ta: 25°C	(1) 184 V (2) 137 V (3) 180 V
5	Input Capacitor	C5 Rated 22u / 500V	I/P: High-Line +3V =308 V O/P: (1) FULL LOAD input on/off (2) NO LOAD input on /Off (3) FULL LOAD /NO LOAD Change Ta: 25°C	(1) 464 V (2) 484 V (3) 484 V
6	Control IC	U1 Rated 27V (MAX.)	I/P: High-Line +3V =308 V O/P: (1) FULL LOAD (2) Output Short (3) O.P.P Ta: 25°C	(1)12.5 V (2)13.7 V (3)12.3 V

## SAFETY TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	WITHSTAND VOLTAGE	I/P-O/P: 3.75KVAC/min I/P-FG: 2.0KVAC/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: 2.765 mA I/P-FG: 2.720 mA O/P-FG: 2.684 mA NO DAMAGE
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	I/P-O/P: >9999 MΩ I/P-FG: >9999 MΩ O/P-FG: >9999 MΩ
3	GROUNDING CONTINUITY	FG(PE) TO CHASSIS OR TRACE < 100 mΩ	40A / 2min Ta:25°C	10mΩ

## E.M.C TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	HARMONIC	EN61000-3-2 CLASS C	I/P: 230VAC/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	PASS
5	E.F.T	EN61000-4-4 LIGHT INDUSTRY INPUT: 1KV	I/P: 230VAC/50HZ O/P: FULL LOAD Ta: 25°C	PASS
6	SURGE	EN61000-4-5 INDUSTRY L-N: 4KV L,N-PE: 6KV	I/P: 230VAC/50HZ O/P: FULL LOAD L-N: 4KV L,N-PE: 6KV Ta: 25°C	PASS
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-50-A 1. ROOM AMBIENT BURN-IN: 2 HRS I/P: 230VAC O/P: FULL LOAD Ta=28.8 °C 2. HIGH AMBIENT BURN-IN: 2 HRS I/P: 230VAC O/P: FULL LOAD Ta=62.0 °C																																																																																						
				<table border="1"> <thead> <tr> <th>NO</th> <th>Position</th> <th>ROOM AMBIENT Ta=28.8 °C</th> <th>HIGH AMBIENT Ta=62.0 °C</th> </tr> </thead> <tbody> <tr><td>1</td><td>BD1</td><td>57.2°C</td><td>89.4°C</td></tr> <tr><td>2</td><td>ZNR2</td><td>53.7°C</td><td>85.7°C</td></tr> <tr><td>3</td><td>RTH1</td><td>60.9°C</td><td>91.2°C</td></tr> <tr><td>4</td><td>C1</td><td>57.6°C</td><td>89.2°C</td></tr> <tr><td>5</td><td>LF1</td><td>52.8°C</td><td>84.5°C</td></tr> <tr><td>6</td><td>C8</td><td>55.4°C</td><td>87.7°C</td></tr> <tr><td>7</td><td>C5</td><td>61.0°C</td><td>93.3°C</td></tr> <tr><td>8</td><td>C51</td><td>60.5°C</td><td>92.9°C</td></tr> <tr><td>9</td><td>Q1</td><td>58.6°C</td><td>91.8°C</td></tr> <tr><td>10</td><td>Q2</td><td>68.9°C</td><td>104.5°C</td></tr> <tr><td>11</td><td>U1</td><td>57.0°C</td><td>89.4°C</td></tr> <tr><td>12</td><td>U2</td><td>58.5°C</td><td>90.7°C</td></tr> <tr><td>13</td><td>D6</td><td>53.5°C</td><td>85.5°C</td></tr> <tr><td>14</td><td>Q50</td><td>61.5°C</td><td>93.9°C</td></tr> <tr><td>15</td><td>T1 初</td><td>65.7°C</td><td>98.4°C</td></tr> <tr><td>16</td><td>D100</td><td>62.1°C</td><td>94.2°C</td></tr> <tr><td>17</td><td>C101</td><td>58.8°C</td><td>90.8°C</td></tr> <tr><td>18</td><td>C102</td><td>56.8°C</td><td>88.7°C</td></tr> <tr><td>19</td><td>RTH2</td><td>56.7°C</td><td>88.6°C</td></tr> <tr><td>20</td><td>TC</td><td>52.5°C</td><td>84.0°C</td></tr> </tbody> </table>	NO	Position	ROOM AMBIENT Ta=28.8 °C	HIGH AMBIENT Ta=62.0 °C	1	BD1	57.2°C	89.4°C	2	ZNR2	53.7°C	85.7°C	3	RTH1	60.9°C	91.2°C	4	C1	57.6°C	89.2°C	5	LF1	52.8°C	84.5°C	6	C8	55.4°C	87.7°C	7	C5	61.0°C	93.3°C	8	C51	60.5°C	92.9°C	9	Q1	58.6°C	91.8°C	10	Q2	68.9°C	104.5°C	11	U1	57.0°C	89.4°C	12	U2	58.5°C	90.7°C	13	D6	53.5°C	85.5°C	14	Q50	61.5°C	93.9°C	15	T1 初	65.7°C	98.4°C	16	D100	62.1°C	94.2°C	17	C101	58.8°C	90.8°C	18	C102	56.8°C	88.7°C	19	RTH2	56.7°C	88.6°C	20	TC	52.5°C	84.0°C
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2	LOW TEMPERATURE TURN ON TEST	TURN ON AFTER 2 HOUR	I/P: 305VAC/100VAC O/P: FULL LOAD Ta= -45°C / -30°C	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	±0.014 %/°C (0-60°C)																																																																																				
5	STORAGE TEMPERATURE TEST	-40~+80°C	1. Thermal shock Temperature: -45°C ~ +85°C 2. Temperature change rate : 25°C / MIN 3. Dwell time low and high temperature : 30 MIN/EACH 4. Total test cycle: 100 CYCLE 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: 16 CYCLE 5. Input/Output condition: 230VAC/ FULL LOAD AC ON/OFF TEST AC on 3 sec/AC off 1 sec 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-50-A: SUPPOSE C101 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) 85334 HRS (2) 91170 HRS (3) 99372 HRS
9	MTBF	Conducted by Parts Stress Analysis Prediction 1252.69K hrs min. Telcordia SR-332 (Bellcore) 394.57K 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/ZHOUBIAO	WENFENG	LIUWY