



# Test Report: XLG-320-H

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315W 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	CURRENT TOLERANCE	±5%	I/P:230VAC O/P:LEDmax CP: 5.57 A & 7.42A Ta:25°C	CP:5.57 A 5.574A/230VAC@CV MAX-1V 5.415A/230VAC@CV MIN -3.01%~0.1% CP:7.42 A 7.463A/230VAC@CV MAX-1V 7.341A/230VAC@CV MIN -0.46%~0.91%
2	FULL POWER CURRENT RANGE	5570~7420 mA	I/P: 230VAC O/P:LEDmax CP: 5.57A & 7.42A Ta:25°C	56V/5.572A/230VAC 42V/7.458A/230VAC
3	OPEN CIRCUIT VOLTAGE (max)	60V	I/P: 230VAC O/P:NO LOAD CP: OPEN Ta:25°C	58.72V
4	CONSTANT CURRENT REGION	CP 5.57A: CH1: 30V~56 V  CP 7.42 A: CH1: 30V~42 V	I/P: 230VAC O/P:LEDmax CP: 5.57A & 7.42A Ta:25°C	CP 5.57A: 16.2V~56.9 V/230VAC  CP 7.42A: 17.9V~49.8 V/230VAC
5	CURRENT ADJ. RANGE	CH1: 2800mA~7420mA	I/P: 230VAC O/P:CVmin& CVmax-1V CP: 5.57A & 7A Ta:25°C	2582mA~5572mA/230VAC@CV MAX-1V 2511mA~7604mA/230VAC@CV MIN
6	CURRENT RIPPLE	5.0% max. @rated current	I/P: 230VAC O/P:LEDmax CP: 5.57A & 7.42A Ta:25°C	CP:5.57 A 2.87%  CP:7.42A 3.57%

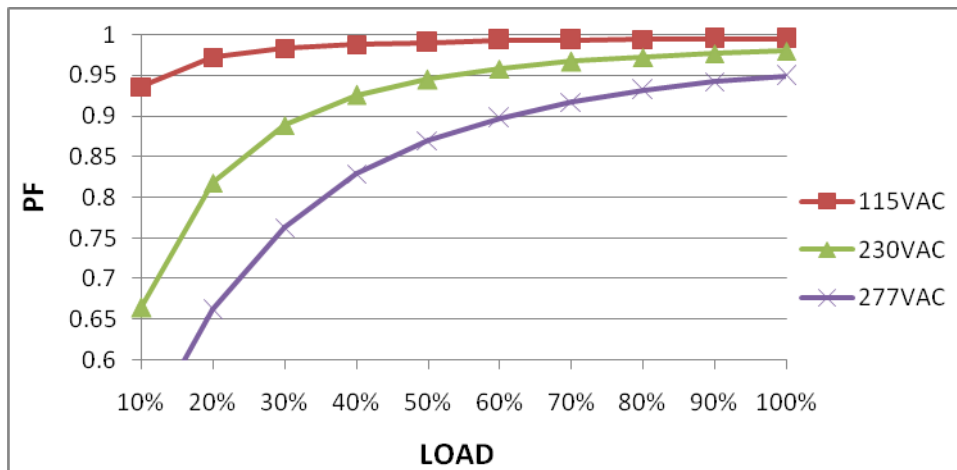
7	SET UP TIME	230VAC/500 ms (Max) 115VAC/ 1200ms (Max)	I/P: 230VAC I/P: 115VAC  O/P:LEDmax CP 5.57A Ta:25°C	230VAC/231.6ms 115VAC/ 271.6ms
INPUT=230VAC/50HZ @ LEDMAX@ CP 5.57A CH1 : Output Voltage CH2 : AC Input Voltage		INPUT=230VAC/60HZ @ LEDMAX@ CP5.57 A CH1 : Output Voltage CH2 : AC Input Voltage		

## INPUT FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	INPUT VOLTAGE RANGE	100VAC~305 VAC 142VDC ~ 431VDC	(1) I/P:TESTING O/P:LEDmax (2) I/P:DC TESTING(L:+ N:-) O/P:LEDmax (3) I/P:DC TESTING(L:- N:+) O/P:LEDmax  Ta:25°C	(1) 97VAC~308VAC (2) 142VDC ~ 431VDC (3) 142VDC ~ 431VDC
			I/P: LOW-LINE-3V=97 V HIGH-LINE+10V=315 V O/P: LEDmax / LEDmin CP 5.57A (PLEASE CHECK DERATING CURVE) ON: 30 Sec OFF: 30 Sec 10MIN ( POWER ON/OFF NO DAMAGE )	(1).TEST:OK (2).TEST:OK
2	INPUT FREQUENCY RANGE	47HZ ~63 HZ NO DAMAGE	I/P: 100 VAC ~305VAC O/P: LEDmax ~ LEDmin CP :5.57A Ta:25°C	TEST:OK

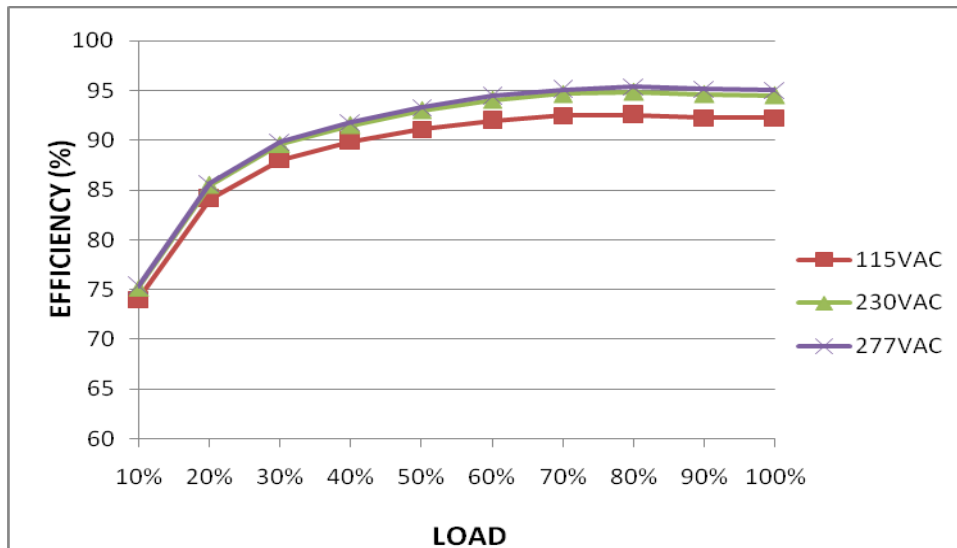
3	INPUT CURRENT (TYP)	230VAC / 1.6 A 277VAC / 1.3 A 115VAC / 3A	I/P: 230VAC/277VAC/115VAC O/P: LEDmax CP: 5.57A Ta: 25°C	I = 1.467A / 230VAC I = 1.25A / 277VAC I = 2.663A / 115VAC
4	LEAKAGE CURRENT	EN61230-1 < 0.75mA / 277VAC	I/P: 277 VAC O/P: Min LOAD Ta: 25°C	L-FG: 0.286 mA N-FG: 0.315mA
5	POWER FACTOR(TYP)	0.95/230VAC LEDMAX 0.92/277 VAC LEDMAX 0.98/115 VAC LEDMAX	I/P: 115VAC/230VAC/277VAC O/P: LEDmax CP: 5.57A Ta: 25°C	PF=0.98 /230V/100%LOAD PF=0.949/277V/100%LOAD PF=0.995/115V/100%LOAD

P.F vs LOAD

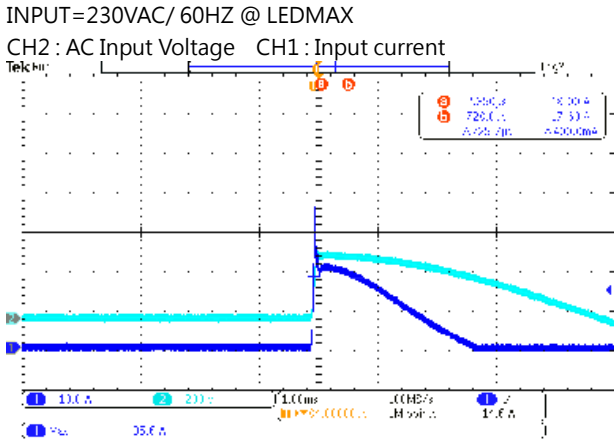


6	EFFICIENCY (TYP)	92.5%	I/P: 230VAC O/P: LEDmax CP: 5.57A Ta: 25°C	94.49%
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EFFICIENCY vs LOAD

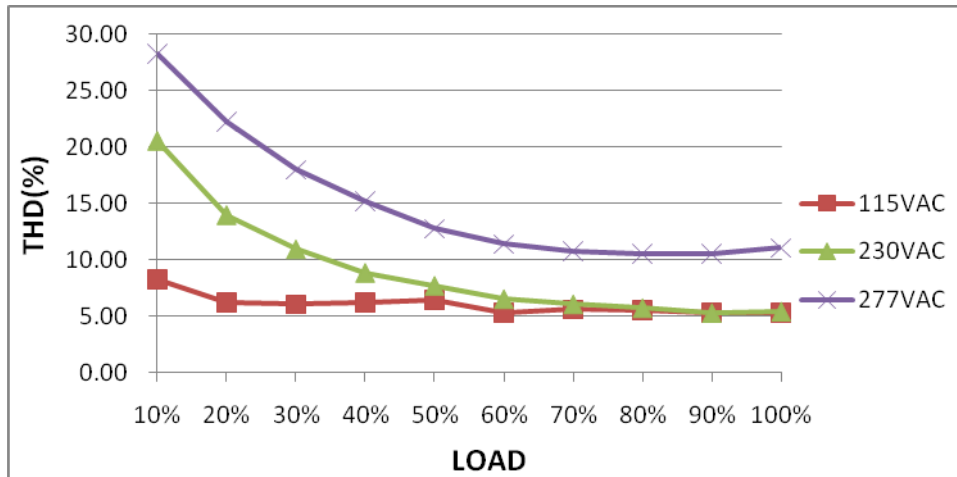


7	INRUSH CURRENT (TYP)	230V/ 45A COLD START  (twidth=1200 usmeasured at 50% Ipeak) COLD START	I/P: 230VAC O/P:LEDmax CP 5.57 A Ta:25°C	I =35.6A /230VAC  T50= 725.7 μ S
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8	TOTAL HARMONIC DISTORTION	THD < 10% @ 230VAC > 50% loading THD < 10% @ 115VAC > 50% loading THD < 15% @ 277VAC > 75% loading	I/P : 277/230/115VAC O/P : 75%/50% LOAD CP :5.57A Ta : 25°C	THD : 7.71 %230V 50% THD : 6.47 %115V50% THD : 10.65 %277V 75%
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THD vs LOAD



## ROTECTION FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	OVER VOLTAGE PROTECTION	V1: 63V~78V	I/P: 305VAC I/P: 230VAC I/P: 100VAC  O/P:MIN LOAD Ta:25°C	69.9V / 305VAC 69.6V/ 230VAC 70.2V/ 100VAC PROTECTION TYPE : Shut down output voltage, re-power on to recovery

2	OVER TEMPERATURE PROTECTION	NO DAMAGE	I/P: 305 VAC I/P: 100 VAC O/P: LEDmax CP: 5.57A & 7.42A Ta:25°C	O.T.P. Active PROTECTION TYPE : Tcase>85 °C ± 5 °C ,derate power automatically
3	SHORT PROTECTION	SHORT EVERY OUTPUT 1 HOUR NO DAMAGE	I/P: 305VAC I/P: 100 VAC O/P: LEDMAX CP: 5.57A & 7.42A Ta:25°C	CP:5.57 A NO DAMAGE PROTECTION TYPE : Hiccup mode or Constant current limiting, recovers automatically after fault condition is removed  CP: 7.42A NO DAMAGE PROTECTION TYPE : Hiccup mode or Constant current limiting, recovers automatically after fault condition is removed

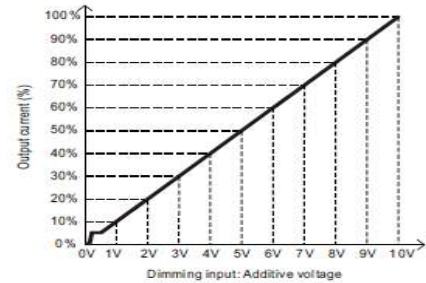
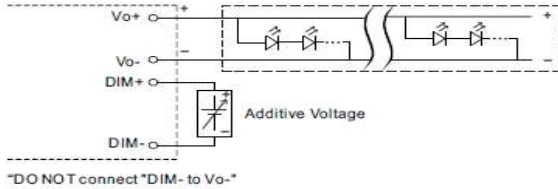
## DIMMING OPERATION TEST

1 DIMMING OPERATION (for AB-Type)

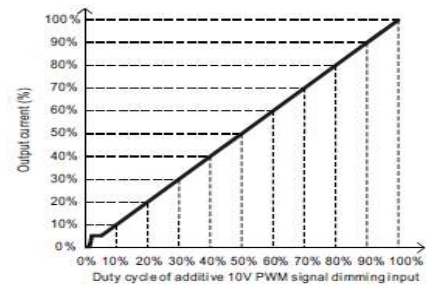
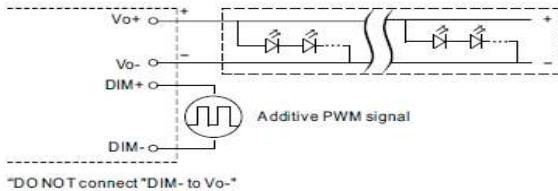
※ **3 in 1 dimming function (for AB-Type)**

- 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: 100  $\mu$  A (typ.)

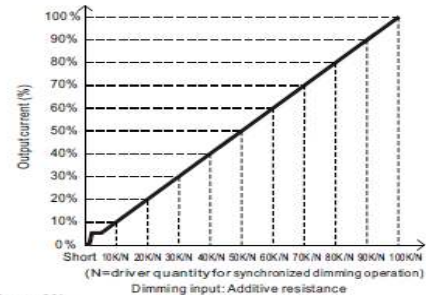
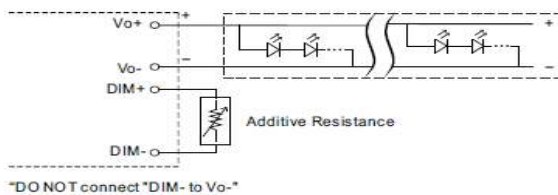
Ⓒ Applying additive 0 ~ 10VDC



Ⓒ 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  $0\Omega$  or 0Vdc, or 10V PWM signal with 0% duty cycle.  
 3. When PWM frequency > 2K HZ, the lighting will be triggered at 10~15% PWM duty.

I/P : 230 VAC O/P : DIMMING TEST

	V	Short	1V	2V	3V	4V	5V	6V	7V	8V	9V	10V	OPEN
1	Output Current	0.0000 0A	0.786 A	1.26 5A	1.762A	2.266A	2.783A	3.312A	3.852A	4.403A	4.972A	5.563A	5.563A
	%	0.00%	14.10 %	22.7 1%	31.64 %	40.69 %	49.97 %	59.46 %	69.15 %	79.05 %	89.26 %	99.87%	99.87%
2	PWM	0V	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	OPEN
	Output Current (100Hz)	0.0000 0A	0.866 A	1.35 3A	1.860A	2.379A	2.909A	3.455A	4.006A	4.572A	5.195A	5.563A	5.564A
	%	0.00%	15.55 %	24.2 9%	33.40 %	42.71 %	52.23 %	62.03 %	71.93 %	82.08 %	93.27 %	99.87%	99.90%
	Output Current (3KHz)	0.0000 0A	0.782 A	1.27 1A	1.777A	2.293A	2.819A	3.360A	3.911A	4.472A	5.062A	5.565A	5.563A
%	0.00%	14.04 %	22.8 2%	31.91 %	41.17 %	50.61 %	60.33 %	70.22 %	80.29 %	90.89 %	99.91%	99.88%	
3	R	0%	10K	20K	30K	40K	50K	60K	70K	80K	90K	100K	OPEN
	Output Current	0.0000 0A	0.861 A	1.34 8A	1.863A	2.387A	2.921A	3.465A	4.018A	4.585A	5.209A	5.566A	5.562A
	%	0.00%	15.46 %	24.2 0%	33.44 %	42.86 %	52.44 %	62.21 %	72.13 %	82.32 %	93.52 %	99.92%	99.86%

TEST RESULT : OK

**COMPONENT STRESS TEST**

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	PWM Transistor ( D to S) or (C to E) Peak Voltage	Q8 Rated 13 A/ 600V	I/P:High-Line +3V =308v AC ON/OFF CP: 5.57A & 7.42A VDS: O/P: (1)LEDmax (2) LEDmax continue (3) LEDmin (4) LEDmin continue (5) Output Short I/P:Low-Line -3V = 97V VDS: O/P: (1)LEDmax (2) LEDmax continue (3) LEDmin (4) LEDmin continue (5) Output Short  Ta:25°C	308V CP: 5.57A Q8 VDS: (1) 476V (2) 448V (3) 464V (4) 436V (5) 480V  CP: 7.42A VDS: (1) 496V (2) 452V (3) 504V (4) 456V (5) 496V  97V CP:5.57 A Q8 VDS: (1) 452V (2) 448V (3) 440V (4) 431V (5) 440V CP: 7.42A VDS: (1) 464V (2) 456V (3) 472V (4) 456V (5) 504V
2	P.F.C Transistor ( D to S) or (C to E) Peak Voltage	Q1 Rated 20 A/ 600V	I/P:High-Line +3V =308v AC ON/OFF CP: 5.57A VDS: O/P: (1)LEDmax (2) LEDmax continue (3) LEDmin (4) LEDmin continue (5) Output Short	CP: 5.57A Q1 VDS: (1) 484V (2) 464V (3) 460V (4) 448V (5) 476V

			<p>I/P:Low-Line -3V = 97V  VDS:  O/P: (1)LEDmax  (2) LEDmax continue  (3) LEDmin  (4) LEDmin continue  (5) Output Short  Ta:25°C</p>	<p>Q1  VDS:  (1) 468V  (2) 468V  (3) 468V  (4) 464V  (5) 472V</p>
3	P.F.C DIODE	D5 Rated 9 A/ 600 V	<p>I/P:High-Line +3V =308v  AC ON/OFF  <b>CP: 5.57A</b>  VDS:  O/P: (1)LEDmax  (2) LEDmax continue  (3) LEDmin  (4) LEDmin continue  (5) Output Short</p> <p>I/P:Low-Line -3V = 97V  O/P: (1)LEDmax  (2) LEDmax continue  (3) LEDmin  (4) LEDmin continue  (5) Output Short</p> <p>Ta:25°C</p>	<p>(1) 491V  (2) 443V  (3) 475V  (4)455V  (5)467V</p> <p>(1)463 V  (2) 459V  (3) 463V  (4)443V  (5)463V</p>
4	Diode Peak Voltage	Q100 Rated: 80A/150V	<p>I/P:High-Line +3V =308v  AC ON/OFF  <b>CP: 5.57A &amp; 7.42A</b>  VDS:  O/P: (1)LEDmax  (2) LEDmax continue  (3) Output Short</p> <p>Ta:25°C</p>	<p><b>CP: 5.57A</b>  Q100  VDS:  (1) 117.1V  (2) 114.7V  (3) 15.5V</p> <p><b>CP: 7.42A</b>  Q100  VDS:  (1) 99.1V  (2) 93.4V  (3) 17.1V</p>
5	Input Capacitor Voltage	C5 Rated: 180;μ /450 V	<p>I/P:High-Line +3V =308v  AC ON/OFF  <b>CP: 5.57A</b>  VDS:  O/P: (1)LEDmax  (2) LEDmax continue  (3) LEDmin  (4) LEDmin continue</p> <p>Ta:25°C</p>	<p>(1) 451V  (2)435 V  (3) 447V  (4) 431V</p>

6	Control IC Voltage Test	PWM IC U2 Rated 8.9 V~ 15.5V  PFC IC U1 Rated 11.85V~ 20V  O/P IC U101 Rated 8V~ 24V	I/P:High-Line +3V =308v AC ON/OFF CP: 5.57A VDS: O/P: (1)LEDmax (2) LEDmin (3) Output Short (4) NO LOAD VRmin.LOW LINE Ta:25°C	U1&U2 (1) 14.1V14 (2) 13.84V15 (3) 13.68V16 (4) 14.16V  U101 (1) 10.8V (2) 10.7V (3) 10.7V (4) 10.8V
7	VCC Diode Peak Voltage	D304 Rated 400 V2 A  D401 Rated 400 V2 A	AC ON/OFF  I/P : High-Line +3V = 308 V O/P : (1) Full load (2) Full load continue  Ta : 25°C	D304 (1) 143V (2) 139V  D401 (1) 127V (2) 123V
8	TOP SWITCHING STAND BY POWER	U300 Rated 1.5A/ 700V	AC ON/OFF CP: 5.57A I/P:High-Line +3V =308 V O/P: (1)LEDmax (2) LEDmin I/P:Low-Line -3V =97 V O/P: (1)LEDmax (2) LEDmin  Ta:25°C	CP: 5.57A (1) 528V (2) 520V  (1) 512V (2) 516V

## SAFETY & EMC TEST

### SAFETY TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	WITHSTAND VOLTAGE	EN61230-1 I/P-O/P: 3.75KVAC/min I/P-FG: 2 KVAC/min O/P-FG:1.5KVAC/min	I/P-O/P: 4.125 KVAC/min I/P-FG: 2.4KVAC/min O/P-FG: 1.8 KVAC/min Ta:25°C	I/P-O/P:2.969 mA I/P-FG:2.588 mA O/P-FG: 2.082mA 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: 9999MΩ I/P-FG:9999 M Ω O/P-FG: 9999M Ω NO DAMAGE

3	GROUNDING CONTINUITY	EN61230-1 FG(PE) TO CHASSIS OR TRACE < 100 mΩ	40A / 2min Ta:25°C	13mΩ
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## E.M.C TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	HARMONIC	EN61000-3-2 CLASS C	I/P: 230VAC/50HZ O/P: LEDmax Ta:25°C	PASS
2	CONDUCTION	EN 55015	I/P:230VAC (50HZ) O/P: LEDmax Ta:25°C	PASS Test by certified Lab
3	RADIATION	EN 55015	I/P: 230VAC (50HZ) O/P:LEDmax Ta:25°C	PASS Test by certified Lab
4	E.S.D	EN61000-4-2 AIR : 8KV / Contact : 4KV	I/P: 230VAC (50HZ) O/P:LEDmax Ta:25°C	CRITERIA A
5	E.F.T	EN61000-4-4 INPUT: 2KV	I/P: 230VAC (50HZ) O/P:LEDmax Ta:25°C	CRITERIA A
6	SURGE	IEC61000-4-5 L-N :4KV L,N-PE:6KV	I/P: 230VAC (50HZ) O/P:LEDmax Ta:25°C	CRITERIA B
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-320-H-AB 1. ROOM AMBIENT BURN-IN : 2 HRS I/P : 230VAC O/P : FULL LOAD Ta=30.3 °C 2. HIGH AMBIENT BURN-IN : 2 HRS I/P : 230VAC O/P : FULL LOAD Ta=47.3 °C																																																																																																																		
				<table border="1"> <thead> <tr> <th>NO</th> <th>Position</th> <th>ROOM AMBIENT Ta=30.3°C</th> <th>HIGH AMBIENT Ta=47.3°C</th> </tr> </thead> <tbody> <tr><td>1</td><td>LF1</td><td>63.2°C</td><td>76.3°C</td></tr> <tr><td>2</td><td>BD1</td><td>71.8°C</td><td>83.9°C</td></tr> <tr><td>3</td><td>Q1</td><td>69.6°C</td><td>81.6°C</td></tr> <tr><td>4</td><td>L2</td><td>73.1°C</td><td>84.7°C</td></tr> <tr><td>5</td><td>Q2</td><td>70.4°C</td><td>81.9°C</td></tr> <tr><td>6</td><td>D5</td><td>72.5°C</td><td>84.7°C</td></tr> <tr><td>7</td><td>C5</td><td>65.0°C</td><td>77.2°C</td></tr> <tr><td>8</td><td>R15</td><td>67.3°C</td><td>79.7°C</td></tr> <tr><td>9</td><td>RY1</td><td>69.5°C</td><td>81.5°C</td></tr> <tr><td>10</td><td>RTH1</td><td>70.8°C</td><td>82.6°C</td></tr> <tr><td>11</td><td>C16</td><td>72.4°C</td><td>84.1°C</td></tr> <tr><td>12</td><td>U1</td><td>63.4°C</td><td>76.1°C</td></tr> <tr><td>13</td><td>U2</td><td>65.3°C</td><td>78.1°C</td></tr> <tr><td>14</td><td>Q7</td><td>75.6°C</td><td>86.7°C</td></tr> <tr><td>15</td><td>Q8</td><td>75.3°C</td><td>86.4°C</td></tr> <tr><td>16</td><td>C88</td><td>70.1°C</td><td>81.6°C</td></tr> <tr><td>17</td><td>T1</td><td>79.4°C</td><td>90.6°C</td></tr> <tr><td>18</td><td>C142</td><td>64.3°C</td><td>76.5°C</td></tr> <tr><td>19</td><td>Q100</td><td>64.6°C</td><td>78.3°C</td></tr> <tr><td>20</td><td>Q101</td><td>63.9°C</td><td>77.6°C</td></tr> <tr><td>21</td><td>C104</td><td>65.4°C</td><td>77.6°C</td></tr> <tr><td>22</td><td>C105</td><td>62.3°C</td><td>75.6°C</td></tr> <tr><td>23</td><td>U101</td><td>65.4°C</td><td>78.8°C</td></tr> <tr><td>24</td><td>J101</td><td>63.2°C</td><td>78.1°C</td></tr> <tr><td>25</td><td>OTP1</td><td>63.2°C</td><td>76.1°C</td></tr> <tr><td>26</td><td>RTH2</td><td>63.1°C</td><td>75.9°C</td></tr> <tr><td>27</td><td>TC</td><td>59.8°C</td><td>73.4°C</td></tr> </tbody> </table>	NO	Position	ROOM AMBIENT Ta=30.3°C	HIGH AMBIENT Ta=47.3°C	1	LF1	63.2°C	76.3°C	2	BD1	71.8°C	83.9°C	3	Q1	69.6°C	81.6°C	4	L2	73.1°C	84.7°C	5	Q2	70.4°C	81.9°C	6	D5	72.5°C	84.7°C	7	C5	65.0°C	77.2°C	8	R15	67.3°C	79.7°C	9	RY1	69.5°C	81.5°C	10	RTH1	70.8°C	82.6°C	11	C16	72.4°C	84.1°C	12	U1	63.4°C	76.1°C	13	U2	65.3°C	78.1°C	14	Q7	75.6°C	86.7°C	15	Q8	75.3°C	86.4°C	16	C88	70.1°C	81.6°C	17	T1	79.4°C	90.6°C	18	C142	64.3°C	76.5°C	19	Q100	64.6°C	78.3°C	20	Q101	63.9°C	77.6°C	21	C104	65.4°C	77.6°C	22	C105	62.3°C	75.6°C	23	U101	65.4°C	78.8°C	24	J101	63.2°C	78.1°C	25	OTP1	63.2°C	76.1°C	26	RTH2	63.1°C	75.9°C	27	TC	59.8°C	73.4°C
NO	Position	ROOM AMBIENT Ta=30.3°C	HIGH AMBIENT Ta=47.3°C																																																																																																																	
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7	C5	65.0°C	77.2°C																																																																																																																	
8	R15	67.3°C	79.7°C																																																																																																																	
9	RY1	69.5°C	81.5°C																																																																																																																	
10	RTH1	70.8°C	82.6°C																																																																																																																	
11	C16	72.4°C	84.1°C																																																																																																																	
12	U1	63.4°C	76.1°C																																																																																																																	
13	U2	65.3°C	78.1°C																																																																																																																	
14	Q7	75.6°C	86.7°C																																																																																																																	
15	Q8	75.3°C	86.4°C																																																																																																																	
16	C88	70.1°C	81.6°C																																																																																																																	
17	T1	79.4°C	90.6°C																																																																																																																	
18	C142	64.3°C	76.5°C																																																																																																																	
19	Q100	64.6°C	78.3°C																																																																																																																	
20	Q101	63.9°C	77.6°C																																																																																																																	
21	C104	65.4°C	77.6°C																																																																																																																	
22	C105	62.3°C	75.6°C																																																																																																																	
23	U101	65.4°C	78.8°C																																																																																																																	
24	J101	63.2°C	78.1°C																																																																																																																	
25	OTP1	63.2°C	76.1°C																																																																																																																	
26	RTH2	63.1°C	75.9°C																																																																																																																	
27	TC	59.8°C	73.4°C																																																																																																																	
2	LOW TEMPERATURE TURN ON TEST	TURN ON AFTER 2 HOUR	I/P : 305VAC/100VAC O/P : 100%LOAD Ta= -45/-35 °C	TEST : OK																																																																																																																
3	HIGH HUMIDITY HIGH TEMPERATURE HIGH VOLTAGE TURN ON TEST	AFTER 12 HOURS IN CHAMBER ON CONTROL 45 °C NO DAMAGE	I/P : 315 VAC O/P : FULL LOAD Ta=45 °C HUMIDITY= 95 %R.H	TEST : OK																																																																																																																

4	TEMPERATURE COEFFICIENT	$\pm 0.03 \%$ /(0°C~60°C)	I/P : 230 VAC O/P : FULL LOAD	$\pm 0.0087 \%$ /°C(0~60°C)
5	STORAGE TEMPERATURE TEST	-40~85°C	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 : 10CYCLE 5. Input/Output condition : STATIC TEST : OK	
6	THERMAL SHOCK TEST	-40~45°C	1. Thermal shock Temperature : -45°C~ +50°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 : 15cycle:230V/ FULL LOAD AC ON 3sec/AC OFF 1sec TEST 1cycle:230V/ FULL LOAD Burn In Test TEST : OK	
7	VIBRATION TEST	10 ~ 500Hz, 5G 10min./1cycle, 60min. 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 : 180min in each axis (X.Y.Z) (6) Ta : 25°C	
8	CAPACITOR LIFE CYCLE	SUPPOSE C104 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) 60311HRS (2) 58855HRS (3) 65054HRS
9	MTBF	Conducted by Parts Stress Analysis Prediction 1476.4K hrs min. Telcordia SR-332 (Bellcore); 168.1K 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/HUANGMK	WENF	LINKX