



# Test Report: XLG-75-H-DA2

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75W Constant Power Mode with DALI-2 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: 1.3A & 2.1A Ta:25°C	CP1.3A: 1.3092 A/230VAC@CV MAX-1V 1.3036A/230VAC@CV MIN 0.71%  CP 2.1A: 2.1092A/230VAC@CV MAX-1V 2.1094A/230VAC@CV MIN 0.45%
2	FULL POWER CURRENT RANGE	1300~2100mA	I/P: 230VAC O/P:LEDmax CP: 1.3A & 2.1A Ta:25°C	56V/1.3A/230VAC 36V/2.1A/230VAC
3	OPEN CIRCUIT VOLTAGE (max)	60V	I/P: 230VAC O/P:NO LOAD CP: OPEN Ta:25°C	58.84V
4	CONSTANT CURRENT REGION	CP 1.3A: CH1:27V~ 56V  CP 2.1A: CH1:27V~ 36V	I/P: 230VAC O/P:LEDmax CP: 1.3A & 2.1A Ta:25°C	CP 1.3A: 20V~56 V/230VAC  CP 2.1A: 20V~ 36V/230VAC
5	CURRENT ADJ. RANGE	CH1: 700mA~2100mA	I/P: 230VAC O/P:CVmin& CVmax-1V CP: 1.3A & 2.1A Ta:25°C	0.596A~2.8A/230VAC@CV MAX-1V 0.598A~1.84A /230VAC@CV MIN
6	CURRENT RIPPLE	5.0% (full load)	I/P: 230VAC O/P:LEDmax CP: 1.3A & 2.1A Ta:25°C	CP 1.3A: 1.54%  CP 2.1A: 1.91%

7	SET UP TIME	230VAC/ 500 ms (Max) 115VAC/ 1200 ms (Max)	I/P: 230VAC I/P: 115VAC O/P:LEDmax CP 1.3A Ta:25°C	230VAC/246ms 115VAC/ 260ms
INPUT=230VAC/50HZ @ LEDMAX@ CP 1.3A CH1 : Output Voltage CH2 : AC Input Voltage		INPUT=115VAC/60HZ @ LEDMAX@ CP 1.3A CH1 : Output Voltage CH2 : AC Input Voltage		

### INPUT FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	INPUT VOLTAGE RANGE	100VAC~305VAC 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 (4) I/P: LOW-LINE=142VDC HIGH-LINE=431VDC O/P: Dimming on/off 【for Dimming type,】 Ta:25°C	(1) 97Vac~305Vac (2) 142Vdc~431Vdc (3) 142Vdc~431Vdc (4) OK
			I/P: LOW-LINE-3V=97 V HIGH-LINE+10V=308 V O/P: LEDmax / LEDmin CP 1.3A (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: 100VAC ~305VAC O/P: LEDmax ~ LEDmin CP 1.3A Ta:25°C	TEST:OK

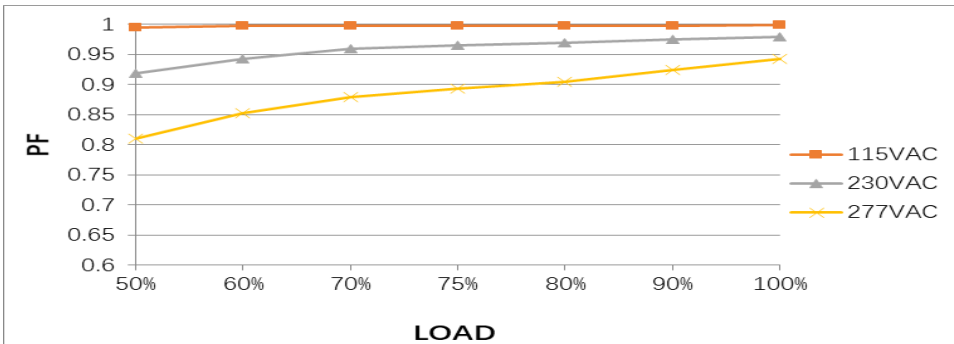


75W Constant Power Mode with DALI-2 LED Driver

**XLG-75-DA2 series**

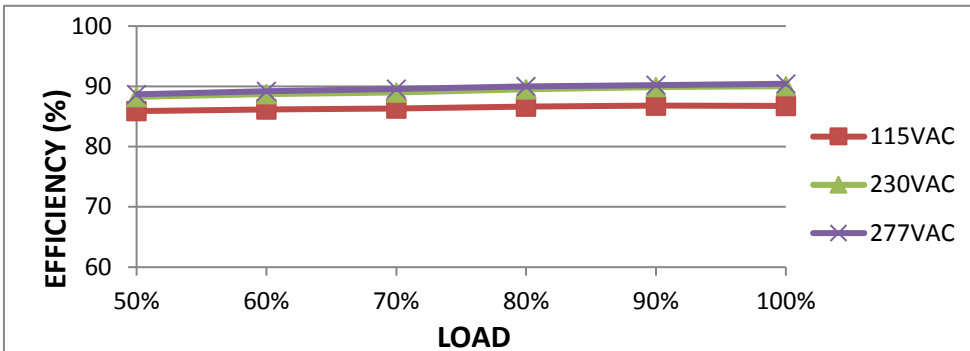
3	INPUT CURRENT (TYP)	230VAC/ 0.45A 115VAC/ 1.0A 277VAC/0.38A	I/P: 230VAC/115VAC/277VAC O/P:LEDmax CP 1.3A Ta:25°C	I =0.358A/ 230VAC I =0.766A/115VAC I =0.303A/277VAC
4	POWER FACTOR(TYP)	0.92/277VAC LEDMAX 0.95/230VAC LEDMAX 0.97/115VAC LEDMAX	I/P: 277VAC/230VAC/115VAC O/P:LEDmax CP 1.3A Ta:25°C	PF=0.942/277V/100%LOAD PF=0.979/230V/100%LOAD PF=0.999/115V/100%LOAD

P.F vs LOAD



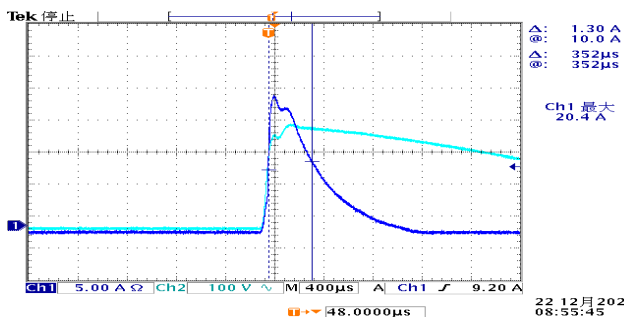
5	EFFICIENCY (TYP)	90%	I/P: 230VAC O/P:LEDmax CP 1.3A Ta:25°C	90.02%
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EFFICIENCY vs LOAD



6	INRUSH CURRENT (TYP)	230V/ 50A COLD START  (twidth=360 usmeasured at 50% Ipeak) COLD START	I/P: 230VAC O/P:LEDmax CP 1.3A Ta:25°C	I =20.4A /230VAC  T50=352μS
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INPUT=230VAC/ 60HZ @ LEDMAX  
CH2 : AC Input Voltage CH1 : Input current



7	TOTAL HARMONIC DISTORTION	THD < 10% (@ load ≥ 50% at 115VAC/230VAC, @ load ≥ 75% at 277VAC)	I/P : 230VAC/115VAC/277VAC O/P : 50% LOAD 75%LOAD CP 1.3A Ta : 25°C	THD : 5.83%230V /50% THD : 3.59%115V /50% THD : 6.36%277V /75%																											
	<p>THD vs LOAD</p> <table border="1"> <caption>THD vs LOAD Data</caption> <thead> <tr> <th>LOAD (%)</th> <th>115VAC THD (%)</th> <th>230VAC THD (%)</th> <th>277VAC THD (%)</th> </tr> </thead> <tbody> <tr> <td>50%</td> <td>3.59</td> <td>5.83</td> <td>10.0</td> </tr> <tr> <td>60%</td> <td>3.2</td> <td>4.5</td> <td>8.2</td> </tr> <tr> <td>70%</td> <td>3.0</td> <td>3.8</td> <td>7.0</td> </tr> <tr> <td>80%</td> <td>2.8</td> <td>3.0</td> <td>5.8</td> </tr> <tr> <td>90%</td> <td>2.8</td> <td>2.5</td> <td>6.0</td> </tr> <tr> <td>100%</td> <td>2.8</td> <td>2.5</td> <td>5.0</td> </tr> </tbody> </table>				LOAD (%)	115VAC THD (%)	230VAC THD (%)	277VAC THD (%)	50%	3.59	5.83	10.0	60%	3.2	4.5	8.2	70%	3.0	3.8	7.0	80%	2.8	3.0	5.8	90%	2.8	2.5	6.0	100%	2.8	2.5
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8	STANDBY POWER CONSUMPTION	Standby power consumption < 0.5W (Dimming off)(For standard version)	I/P : 230VAC O/P : NO LOAD Ta : 25°C	<0.442W/230VAC																											
9	LEAKAGE CURRENT	EN61347-1 < 0.75mA / 277VAC	I/P: 277 VAC O/P:Min LOAD Ta:25°C	L-FG:0.4775 mA N-FG: 0.4874mA																											

### ROTECTION FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	OVER TEMPERATURE PROTECTION	NO DAMAGE	I/P:305VAC I/P: 90 VAC O/P:LEDmax CP 1.3A Ta:25°C	O.T.P Active PROTECTION TYPE : 1: Derating to 75% loading; stage 2: Derating to 50% loading, recovers automatically after fault condition is removed.
2	SHORT PROTECTION	SHORT EVERY OUTPUT 1 HOUR NO DAMAGE	I/P: 305VAC I/P: 100 VAC O/P: LEDMAX CP: 1.3A & 2.1A Ta:25°C	CP: 1.3A NO DAMAGE PROTECTION TYPE : Hiccup mode or constant current limiting, recovers automatically after fault condition is removed CP: 2.1A NO DAMAGE PROTECTION TYPE : Hiccup mode or constant current limiting, recovers automatically after fault condition is removed



3	INPUT OVER VOLTAGE (for XLG-75I only)	320 ~ 390VAC (Shut down output voltage when the input voltage exceeds protection voltage, recovers automatically after fault condition is removed)  Can survive input voltage stress of 440Vac for 48 hours	I/P: TESTING O/P: LEDMAX	pass
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### COMPONENT STRESS TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	PWM Transistor ( D to S) or (C to E) <b>Peak Voltage</b>	Q2 Rated: 6A/800V	I/P:High-Line +3V =308V AC ON/OFF <b>CP: 1.3A&amp;2.1A</b> 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 <b>CP: 1.3A</b> Q2 VDS: (1) 703V (2) 675V (3) 631V (4) 566V (5) 542V  <b>CP: 2.1A</b> <b>VDS:</b> (1) 647V (2) 615V (3) 627V (4) 582V (5) 542 V  97V <b>CP: 1.3A</b> Q2 VDS: (1) 679V (2) 667V (3) 566V (4) 550V (5) 534V  <b>CP: 2.1A</b> <b>Q2</b> VDS: (1) 623V (2) 611V (3) 586V (4) 574V (5) 530V
2	P.F.C Transistor ( D to S) or (C to E) <b>Peak Voltage</b>	Q1 Rated: 10. 6A/650V	I/P:High-Line +3V =308v AC ON/OFF <b>CP: 1.3A&amp;2.1A</b> VDS: O/P: (1)LEDmax (2) LEDmax continue (3) LEDmin (4) LEDmin continue (5) Output Short	308V <b>CP: 1.3A</b> Q1 VDS: (1) 476V (2) 439V (3) 480V (4) 439V (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>97V  CP: 2.1A  Q1  VDS:  (1) 476V  (2) 459V  (3) 476V  (4) 451V  (5) 476V</p>
3	P.F.C DIODE	D5 Rated: 3A/600V	<p>I/P:High-Line +3V =308v  AC ON/OFF  CP: 1.3A  VDS:  O/P: (1)LEDmax  (2) LEDmax continue  (3) LEDmin  (4) LEDmin continue  (5) Output Short    I/P:Low-Line -3V = 107V  O/P: (1)LEDmax  (2) LEDmax continue  (3) LEDmin  (4) LEDmin continue  (5) Output Short  Ta:25°C</p>	<p>(1) 432V  (2) 437V  (3) 432V  (4)412V  (5)432V    (1) 432V  (2) 424V  (3) 432V  (4) 420V  (5) 432V</p>
4	Diode Peak Voltage	D100 Rated: 20A/200V	<p>I/P:High-Line +3V =308v  AC ON/OFF  CP: 1.3A&amp;2.1A  VDS:  O/P: (1)LEDmax  (2) LEDmax continue  (3) Output Short    Ta:25°C</p>	<p>CP: 1.3A  D100  VDS:  (1) 182V  (2) 178V  (3) 119V  CP: 2.1A  D100  VDS:  (1) 164V  (2) 158V  (3) 121V</p>
5	Input Voltage Capacitor	C5 Rated: 330μ/450 V Surge voltage: 580 V	<p>I/P:High-Line +3V =308v  AC ON/OFF  CP: 1.3A  VDS:  O/P: (1)LEDmax  (2) LEDmax continue  (3) LEDmin  (4) LEDmin continue    Ta:25°C</p>	<p>(1) 469V  (2) 432V  (3) 448V  (4) 432V</p>





6	Control IC Voltage Test	<p>PFC IC U1 Rated 10.5V~27V (MIN.)</p> <p>PWM IC U2 Rated 9.4V~ 35V(MIN.)</p> <p>O/P IC U100 Rated 3V~40V</p>	<p>I/P:High-Line +3V =308v AC ON/OFF <b>CP: 1.3A</b> VDS: O/P: (1)LEDmax (2) LEDmin (3) Output Short (4) NO LOAD VRmin.LOW LINE (5)DIM OFF</p> <p>Ta:25°C</p>	<p><b>U1&amp;U2</b> (1) 14.8V (2) 14.6V (3) 14.8V (4) 14.8V (5) 14.8V</p> <p><b>U100</b> (1) 13.6V (2) 13.2V (3) 13.2V (4) 13.8V (5) 13.4V</p>
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## ■ SAFETY & EMC TEST

### SAFETY TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	WITHSTAND VOLTAGE	EN61347-1 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: 1.828mA I/P-FG: 0.698mA O/P-FG: 0.497mA 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 MΩ O/P-FG: 9999M Ω NO DAMAGE
3	GROUNDING CONTINUITY	EN61347-1 FG(PE) TO CHASSIS OR TRACE < 100 mΩ	40A / 2min Ta:25°C	11 mΩ

### 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/EN55015(CISPR15)	I/P:230VAC (50HZ) O/P: LEDmax /50% LOAD Ta:25°C	PASS Test by certified Lab
3	RADIATION	EN/EN55015(CISPR15)	I/P: 230VAC (50HZ) O/P:LEDmax Ta:25°C	PASS Test by certified Lab
4	E.S.D	EN61000-4-2 LIGHT INDUSTRY AIR : 8KV / Contact : 4KV	I/P: 230VAC (50HZ) O/P:LEDmax Ta:25°C	CRITERIA A
5	E.F.T	EN61000-4-4 LIGHT INDUSTRY INPUT: 2KV	I/P: 230VAC (50HZ) O/P:LEDmax Ta:25°C	CRITERIA A
6	SURGE	IEC61000-4-5 LIGHT INDUSTRY 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-75-H-DA2 1. ROOM AMBIENT BURN-IN : 2 HRS I/P : 230VAC O/P : FULL LOAD Ta= 33.3°C 2. HIGH AMBIENT BURN-IN : 2 HRS I/P : 230VAC O/P : FULL LOAD Ta=61.9°C																																																																																																														
				<table border="1"> <thead> <tr> <th>NO</th> <th>Position</th> <th>ROOM AMBIENT Ta= 33.3 °C</th> <th>HIGH AMBIENT Ta=61.9 °C</th> </tr> </thead> <tbody> <tr><td>1</td><td>RTH3</td><td>65.2°C</td><td>88.7°C</td></tr> <tr><td>2</td><td>ZNR4</td><td>64.2°C</td><td>89.1°C</td></tr> <tr><td>3</td><td>C1</td><td>62.5°C</td><td>86.4°C</td></tr> <tr><td>4</td><td>L1</td><td>64.3°C</td><td>89.5°C</td></tr> <tr><td>5</td><td>C8</td><td>66.8°C</td><td>92.2°C</td></tr> <tr><td>6</td><td>D6</td><td>74.9°C</td><td>100.5°C</td></tr> <tr><td>7</td><td>C5</td><td>68.6°C</td><td>93.3°C</td></tr> <tr><td>8</td><td>U2</td><td>68.6°C</td><td>93.3°C</td></tr> <tr><td>9</td><td>C50</td><td>69.2°C</td><td>94.1°C</td></tr> <tr><td>10</td><td>L2</td><td>69.8°C</td><td>95.4°C</td></tr> <tr><td>11</td><td>BD1</td><td>70.6°C</td><td>95.1°C</td></tr> <tr><td>12</td><td>Q1</td><td>66.1°C</td><td>92.3°C</td></tr> <tr><td>13</td><td>Q2</td><td>72.4°C</td><td>97.5°C</td></tr> <tr><td>14</td><td>R8</td><td>66.2°C</td><td>91.6°C</td></tr> <tr><td>15</td><td>U1</td><td>65.3°C</td><td>90.9°C</td></tr> <tr><td>16</td><td>T1</td><td>68.4°C</td><td>94.6°C</td></tr> <tr><td>17</td><td>T1 CORE</td><td>68.8°C</td><td>94.3°C</td></tr> <tr><td>18</td><td>D100</td><td>73.9°C</td><td>99.4°C</td></tr> <tr><td>19</td><td>C201</td><td>68.4°C</td><td>94.4°C</td></tr> <tr><td>20</td><td>C102</td><td>70.0°C</td><td>95.9°C</td></tr> <tr><td>21</td><td>C104</td><td>67.2°C</td><td>93.0°C</td></tr> <tr><td>22</td><td>U100</td><td>63.6°C</td><td>89.5°C</td></tr> <tr><td>23</td><td>R125</td><td>78.9°C</td><td>105.8°C</td></tr> <tr><td>24</td><td>U455</td><td>71.2°C</td><td>96.6°C</td></tr> <tr><td>25</td><td>RT50</td><td>67.3°C</td><td>93.3°C</td></tr> <tr><td>26</td><td>TC</td><td>60.7°C</td><td>85.9°C</td></tr> </tbody> </table>	NO	Position	ROOM AMBIENT Ta= 33.3 °C	HIGH AMBIENT Ta=61.9 °C	1	RTH3	65.2°C	88.7°C	2	ZNR4	64.2°C	89.1°C	3	C1	62.5°C	86.4°C	4	L1	64.3°C	89.5°C	5	C8	66.8°C	92.2°C	6	D6	74.9°C	100.5°C	7	C5	68.6°C	93.3°C	8	U2	68.6°C	93.3°C	9	C50	69.2°C	94.1°C	10	L2	69.8°C	95.4°C	11	BD1	70.6°C	95.1°C	12	Q1	66.1°C	92.3°C	13	Q2	72.4°C	97.5°C	14	R8	66.2°C	91.6°C	15	U1	65.3°C	90.9°C	16	T1	68.4°C	94.6°C	17	T1 CORE	68.8°C	94.3°C	18	D100	73.9°C	99.4°C	19	C201	68.4°C	94.4°C	20	C102	70.0°C	95.9°C	21	C104	67.2°C	93.0°C	22	U100	63.6°C	89.5°C	23	R125	78.9°C	105.8°C	24	U455	71.2°C	96.6°C	25	RT50	67.3°C	93.3°C	26	TC	60.7°C	85.9°C
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18	D100	73.9°C	99.4°C																																																																																																													
19	C201	68.4°C	94.4°C																																																																																																													
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26	TC	60.7°C	85.9°C																																																																																																													
2	LOW TEMPERATURE TURN ON TEST	TURN ON AFTER 2 HOUR	I/P : 305VAC/100VAC O/P : FULL 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 60 °C NO DAMAGE	I/P : 315VAC 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	±0.0068%/°C (0~60°C)																																																																																																												
5	STORAGE TEMPERATURE TEST	-40~+80°C	1. Thermal shock Temperature : -45 +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 : AC OFF STATIC TEST : OK																																																																																																													



75W Constant Power Mode with DALI-2 LED Driver

**XLG-75-DA2 series**

6	THERMAL SHOCK TEST	-40~+60°C	1. Thermal shock Temperature : -45 +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 : 180min in each axis (X.Y.Z) (6) Ta : 25°C TEST : OK
8	CAPACITOR LIFE CYCLE	XLG-75-H-DA2 : SUPPOSE C105 IS THE MOST CRITICAL COMPONENT (1) I/P : 230VAC O/P : FULL LOAD Tc= 75 °C LIFE TIME (2) I/P : 230VAC O/P : 75% LOAD Tc= 75 °C LIFE TIME (3) I/P : 230VAC O/P : 50% LOAD Tc= 75 °C LIFE TIME	(1) 41328 HRS (2) 53232 HRS (3) 75776 HRS
9	MTBF	Conducted by Parts Stress Analysis Prediction 2489.3K hrs min. Telcordia SR-332 (Bellcore) ; 245.7K 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