



Test Report: XLG-75-L-DA2

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: 0.7A & 1.05A Ta:25°C	CP0.7A: 0.7084 A/230VAC@CV MAX-1V 0.7003A/230VAC@CV MIN 1.2% CP 1.05A: 1.0552A/230VAC@CV MAX-1V 1.492A/230VAC@CV MIN 0.5%
2	FULL POWER CURRENT RANGE	700~1050mA	I/P: 230VAC O/P:LEDmax CP: 0.7A & 1.05A Ta:25°C	107V/0.7A/230VAC 71V/1.05A/230VAC
3	OPEN CIRCUIT VOLTAGE (max)	115V	I/P: 230VAC O/P:NO LOAD CP: OPEN Ta:25°C	113.8V
4	CONSTANT CURRENT REGION	CP 0.7A: CH1:53V~107V CP 1.05A: CH1:53V~ 71V	I/P: 230VAC O/P:LEDmax CP: 0.7A & 1.05A Ta:25°C	CP 0.7A: 45V~ 110V/230VAC CP 1.05A: 45V~75 V/230VAC
5	CURRENT ADJ. RANGE	CH1: 350mA~1050mA	I/P: 230VAC O/P:CVmin& CVmax-1V CP: 0.7A & 1.05A Ta:25°C	278.4mA~902.8mA/230VAC@CV MAX-1V 279.2mA~1284mA/230VAC@CV MIN
6	CURRENT RIPPLE	5.0%(full load)	I/P: 230VAC O/P:LEDmax CP: 0.7A & 1.05A Ta:25°C	CP 0.7A: 1.72% CP 1.05A: 1.91%

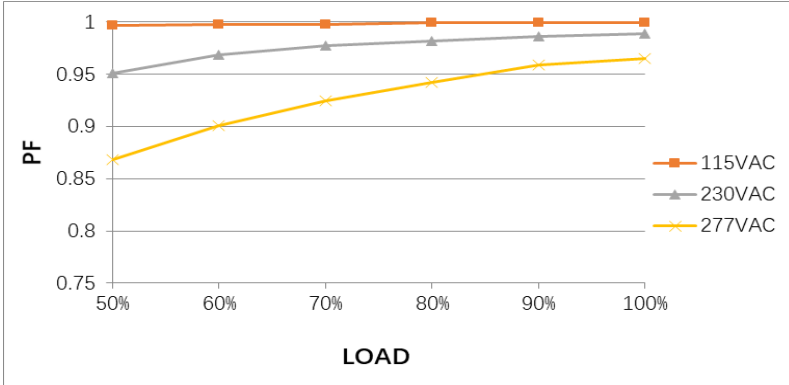
7	SET UP TIME	230VAC/ 500 ms (Max) 115VAC/ 1200 ms (Max)	I/P: 230VAC I/P: 115VAC O/P:LEDmax CP 0.7A Ta:25°C	230VAC/266ms 115VAC/292ms
<p>INPUT=230VAC/50HZ @ LEDMAX@ CP 0.7A CH1 : Output Voltage CH2 : AC Input Voltage</p>		<p>INPUT=230VAC/60HZ @ LEDMAX@ CP 0.7A CH1 : Output Voltage CH2 : AC Input Voltage</p>		

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	(1) 90Vac~305Vac
			(2) I/P:DC TESTING(L:+ N:-) O/P:LEDmax	(2) 142Vdc~431Vdc
1	INPUT VOLTAGE RANGE	100VAC~305VAC 142VDC ~ 431VDC	(3) I/P:DC TESTING(L:- N:+) O/P:LEDmax	(3) 142Vdc~431Vdc
			(4) I/P: LOW-LINE=142VDC HIGH-LINE=431VDC O/P: Dimming on/off 【 for Dimming type,】 Ta:25°C	(4) OK
1	INPUT VOLTAGE RANGE	100VAC~305VAC 142VDC ~ 431VDC	I/P: LOW-LINE-3V=97 V HIGH-LINE+10V=308 V O/P: LEDmax / LEDmin CP 0.7A (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 0.7A Ta:25°C	TEST:OK

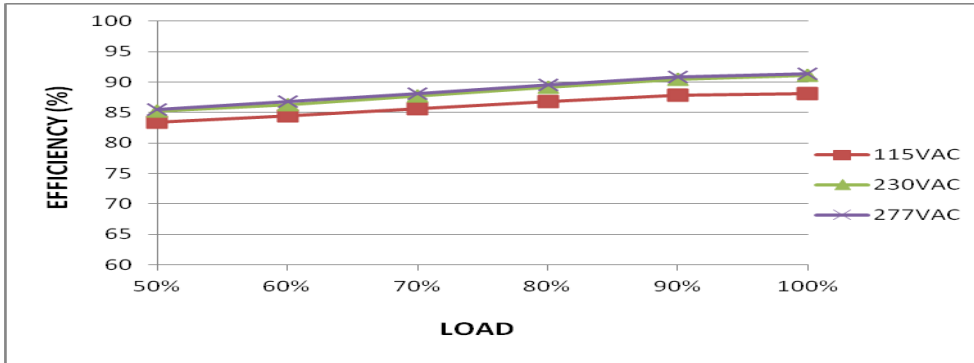
3	INPUT CURRENT (TYP)	230VAC/ 0.45A 115VAC/ 1.0A 277VAC/0.38A	I/P: 230VAC/115VAC/277VAC O/P:LEDmax CP 0.7A Ta:25°C	I =0.370A/ 230VAC I =0.790A/115VAC I =0.313A/277VAC
4	POWER FACTOR(TYP)	0.92/277VAC LEDMAX 0.95/230VAC LEDMAX 0.97/115VAC LEDMAX	I/P: 277VAC/230VAC/115VAC O/P:LEDmax CP 0.7A Ta:25°C	PF=0.965 /277V/100%LOAD PF=0.989/230V/100%LOAD PF=0.999/115V/100%LOAD

P.F vs LOAD



5	EFFICIENCY (TYP)	90%	I/P: 230VAC O/P:LEDmax CP 1.05A Ta:25°C	91.03%
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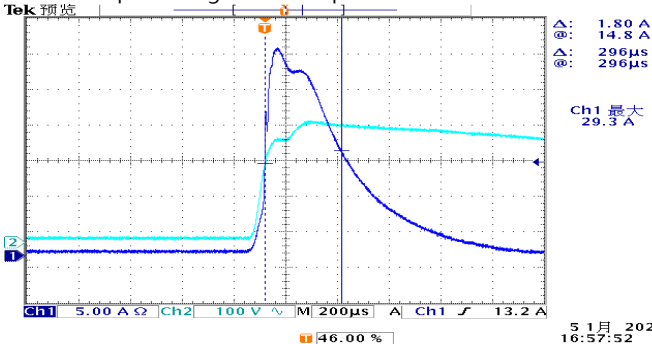
EFFICIENCY vs LOAD



6	INRUSH CURRENT (TYP)	230V/ 50A COLD START (twitdth=360 usmeasured at 50% Ipeak) COLD START	I/P: 230VAC O/P:LEDmax CP 0.7A Ta:25°C	I =29.3A /230VAC T50= 296 μ S
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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 0.7A Ta : 25°C	THD : 5.76%230V /50% THD : 4.43%115V /50% THD : 5.99%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>4.5</td> <td>6.0</td> <td>10.0</td> </tr> <tr> <td>60%</td> <td>4.2</td> <td>5.0</td> <td>8.0</td> </tr> <tr> <td>70%</td> <td>4.0</td> <td>3.8</td> <td>7.0</td> </tr> <tr> <td>80%</td> <td>3.8</td> <td>3.0</td> <td>6.0</td> </tr> <tr> <td>90%</td> <td>3.6</td> <td>2.5</td> <td>5.5</td> </tr> <tr> <td>100%</td> <td>3.5</td> <td>2.3</td> <td>4.5</td> </tr> </tbody> </table>				LOAD (%)	115VAC THD (%)	230VAC THD (%)	277VAC THD (%)	50%	4.5	6.0	10.0	60%	4.2	5.0	8.0	70%	4.0	3.8	7.0	80%	3.8	3.0	6.0	90%	3.6	2.5	5.5	100%	3.5	2.3
LOAD (%)	115VAC THD (%)	230VAC THD (%)	277VAC THD (%)																												
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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	<0.4399W/230VAC																											
9	LEAKAGE CURRENT	EN61347-1 < 0.75mA / 277VAC	I/P: 277 VAC O/P:Min LOAD Ta:25°C	L-FG:0.308 mA N-FG: 0.308mA																											

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 0.7A Ta:25°C	O.T.P. Active PROTECTION TYPE : Stage1: 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: 0.7A &1.05A Ta:25°C	CP: 0.7A NO DAMAGE PROTECTION TYPE : Hiccup mode or constant current limiting, recovers automatically after fault condition is removed CP: 1.05A 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) Peak Voltage	Q2 Rated: 6A/800A	I/P:High-Line +3V =308V AC ON/OFF CP: 0.7A&1.05A 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: 0.7A Q2 VDS: (1) 655V (2) 647V (3) 587V (4) 551V (5) 463V CP: 1.05A VDS: (1) 612V (2) 580V (3) 584V (4) 552V (5) 500V 97V CP: 0.7A Q2 VDS: (1) 652V (2) 648V (3) 548V (4) 536V (5) 455V CP: 1.05A Q2 VDS: (1) 588V (2) 580V (3) 552V (4) 544V (5) 472V
2	P.F.C Transistor (D to S) or (C to E) Peak Voltage	Q1 Rated: 10.6A/650V	I/P:High-Line +3V =308v AC ON/OFF CP: 0.7A&1.05A VDS: O/P: (1)LEDmax (2) LEDmax continue (3) LEDmin (4) LEDmin continue (5) Output Short	308V CP: 0.7A Q1 VDS: (1) 491V (2) 435V (3) 487V (4) 423V (5) 463V

			<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: 1.05A Q1 VDS: (1) 473V (2) 457V (3) 473V (4) 449V (5) 473V</p>
3	P.F.C DIODE	D5 Rated: 3A/600V	<p>I/P:High-Line +3V =308v AC ON/OFF CP: 0.7A VDS: O/P: (1)LEDmax (2) LEDmax continue (3) LEDmin (4) LEDmin continue (5) Output Short I/P:Low-Line -3V = 97V O/P: (1)LEDmax (2) LEDmax continue (3) LEDmin (4) LEDmin continue (5) Output Short Ta:25°C</p>	<p>(1) 436V (2) 404V (3) 404V (4) 384V (5) 440V (1) 440V (2) 436V (3) 445V (4) 428V (5) 440V</p>
4	Diode Peak Voltage	D100 Rated: 10A/400V	<p>I/P:High-Line +3V =308v AC ON/OFF CP: 0.7A&1.05A VDS: O/P: (1)LEDmax (2) LEDmax continue (3) Output Short Ta:25°C</p>	<p>CP: 0.7A D100 VDS: (1) 352V (2) 352V (3) 252V CP: 1.05A D100 VDS: (1) 324V (2) 316V (3) 255V</p>
5	Input Capacitor Voltage	C5 Rated: 330μ /450 V Surge voltage: 580 V	<p>I/P:High-Line +3V =308v AC ON/OFF CP: 0.7A VDS: O/P: (1)LEDmax (2) LEDmax continue (3) LEDmin (4) LEDmin continue Ta:25°C</p>	<p>(1) 473V (2) 432V (3) 469V (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 CP: 0.7A 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>U1&U2 (1) 14.8V (2) 14.8V (3) 14.8V (4) 14.8V (5) 14.8V</p> <p>U100 (1) 13.6V (2) 13.4V (3) 13.4V (4) 13.6V (5) 13.6V</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: 2.875 mA I/P-FG:2.910 mA O/P-FG: 2.407 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: 9999MΩ I/P-FG: 9999MΩ 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	13 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	BS EN/EN55015(CISPR15)	I/P:230VAC (50HZ) O/P: LEDmax /50% LOAD Ta:25°C	PASS Test by certified Lab
3	RADIATION	BS 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-L-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>62.1°C</td><td>88.4°C</td></tr> <tr><td>2</td><td>ZNR4</td><td>56.9°C</td><td>84.9°C</td></tr> <tr><td>3</td><td>C1</td><td>60.2°C</td><td>88.2°C</td></tr> <tr><td>4</td><td>L1</td><td>59.7°C</td><td>87.8°C</td></tr> <tr><td>5</td><td>C8</td><td>61.1°C</td><td>89.5°C</td></tr> <tr><td>6</td><td>D6</td><td>69.3°C</td><td>97.0°C</td></tr> <tr><td>7</td><td>C5</td><td>61.1°C</td><td>87.7°C</td></tr> <tr><td>8</td><td>U2</td><td>62.6°C</td><td>90.7°C</td></tr> <tr><td>9</td><td>C50</td><td>62.9°C</td><td>92.3°C</td></tr> <tr><td>10</td><td>L2</td><td>64.4°C</td><td>92.1°C</td></tr> <tr><td>11</td><td>BD1</td><td>64.0°C</td><td>91.3°C</td></tr> <tr><td>12</td><td>Q1</td><td>61.1°C</td><td>89.3°C</td></tr> <tr><td>13</td><td>Q2</td><td>66.7°C</td><td>95.0°C</td></tr> <tr><td>14</td><td>R8</td><td>61.1°C</td><td>88.5°C</td></tr> <tr><td>15</td><td>U1</td><td>61.0°C</td><td>89.0°C</td></tr> <tr><td>16</td><td>T1</td><td>67.6°C</td><td>95.9°C</td></tr> <tr><td>17</td><td>T1 CORE</td><td>64.3°C</td><td>92.6°C</td></tr> <tr><td>18</td><td>D100</td><td>64.4°C</td><td>91.9°C</td></tr> <tr><td>19</td><td>C202</td><td>62.4°C</td><td>90.6°C</td></tr> <tr><td>20</td><td>C102</td><td>63.4°C</td><td>91.9°C</td></tr> <tr><td>21</td><td>C104</td><td>60.7°C</td><td>88.8°C</td></tr> <tr><td>22</td><td>U100</td><td>58.5°C</td><td>86.0°C</td></tr> <tr><td>23</td><td>R125</td><td>61.3°C</td><td>88.9°C</td></tr> <tr><td>24</td><td>U455</td><td>61.5°C</td><td>90.2°C</td></tr> <tr><td>25</td><td>RT50</td><td>61.2°C</td><td>89.3°C</td></tr> <tr><td>26</td><td>TC</td><td>56.5°C</td><td>84.4°C</td></tr> </tbody> </table>	NO	Position	ROOM AMBIENT Ta= 33.3 °C	HIGH AMBIENT Ta=61.9 °C	1	RTH3	62.1°C	88.4°C	2	ZNR4	56.9°C	84.9°C	3	C1	60.2°C	88.2°C	4	L1	59.7°C	87.8°C	5	C8	61.1°C	89.5°C	6	D6	69.3°C	97.0°C	7	C5	61.1°C	87.7°C	8	U2	62.6°C	90.7°C	9	C50	62.9°C	92.3°C	10	L2	64.4°C	92.1°C	11	BD1	64.0°C	91.3°C	12	Q1	61.1°C	89.3°C	13	Q2	66.7°C	95.0°C	14	R8	61.1°C	88.5°C	15	U1	61.0°C	89.0°C	16	T1	67.6°C	95.9°C	17	T1 CORE	64.3°C	92.6°C	18	D100	64.4°C	91.9°C	19	C202	62.4°C	90.6°C	20	C102	63.4°C	91.9°C	21	C104	60.7°C	88.8°C	22	U100	58.5°C	86.0°C	23	R125	61.3°C	88.9°C	24	U455	61.5°C	90.2°C	25	RT50	61.2°C	89.3°C	26	TC	56.5°C	84.4°C
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18	D100	64.4°C	91.9°C																																																																																																													
19	C202	62.4°C	90.6°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/-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	±0.0108%/°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																																																																																																													

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-L-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) 26602 HRS (2) 46721 HRS (3) 70240 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