



Test Report: XLG-240-L-DA2

240W 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	CP 0.7A: 0.701A/230VAC@CV MAX-1V 0.702A/230VAC@CV MIN 0.29% CP 1.05A: 1.053A/230VAC@CV MAX-1V 1.049A/230VAC@CV MIN 0.29%
2	FULL POWER CURRENT RANGE	700~1050mA	I/P: 230VAC O/P:LEDmax CP: 0.7A& 1.05A Ta:25°C	342V/0.7A/230VAC 228V/1.05A/230VAC
3	OPEN CIRCUIT VOLTAGE (max)	380V	I/P: 230VAC O/P:NO LOAD CP: OPEN Ta:25°C	357.92V
4	CONSTANT CURRENT REGION	CP 0.7A: CH1:178V~ 342V CP 1.05A: CH1:178V~ 114V	I/P: 230VAC O/P:LEDmax CP: 0.7A& 1.05A Ta:25°C	CP 0.7A: 141.4V~359.1V/230VAC CP 1.05A: 141.4V~ 254.9V/230VAC
5	CURRENT ADJ. RANGE	CH1:350mA~1050mA	I/P: 230VAC O/P:CVmin& CVmax-1V CP: 0.7A& 1.05A Ta:25°C	276mA~859mA/230VAC@CV MAX-1V 276mA~1174mA/230VAC@CV MIN
6	CURRENT RIPPLE	5.0% max.	I/P: 230VAC O/P:LEDmax CP: 0.7A& 1.05A Ta:25°C	CP 0.7A: 2.87% CP 1.05A: 2.39%
7	AUXILIARY DC OUTPUT	12V@250mA tolerance ± 10%, ripple 200mVp-p (only for DA2-A-type)	I/P: 230VAC O/P:LEDmax CP: 0.7A& 1.05A Ta:25°C	PASS

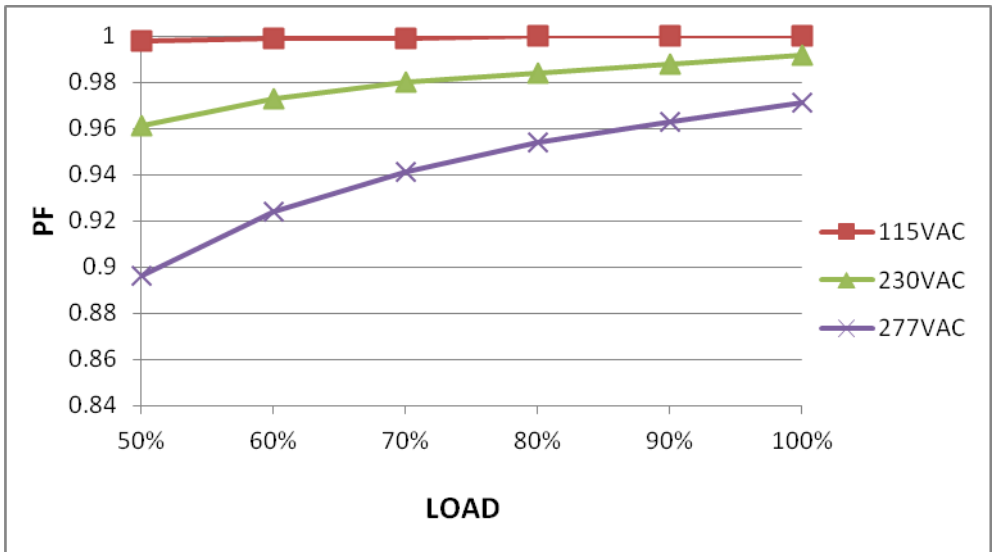
8	SET UP TIME	230VAC/ 500 ms (Max) 115VAC/ 1200 ms (Max)	I/P: 230VAC I/P: 115VAC O/P:LEDmax CP 0.7A Ta:25°C	230VAC/238ms 115VAC/554ms
INPUT=230VAC/50HZ @ LEDMAX@ CP 0.7A CH1 : Output Voltage CH2 : AC Input Voltage		INPUT=230VAC/60HZ @ LEDMAX@ CP 0.7A CH1 : Output Voltage CH2 : AC Input Voltage		

INPUT FUNCTION TEST

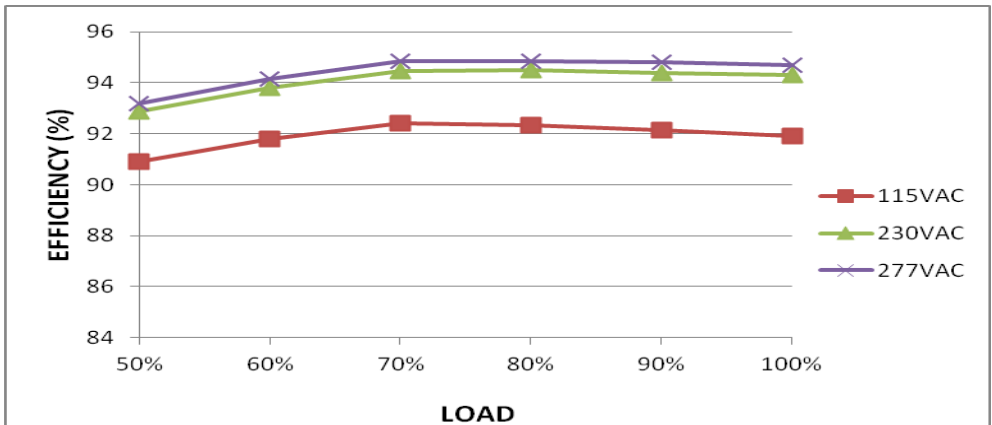
NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	INPUT VOLTAGE RANGE	100VAC ~ 305VAC 142VDC ~ 431VDC	(1) I/P:TESTING O/P:LEDmax (2) I/P:DC TESTING(L:+ N:-) O/P:LEDmax (3) I/P:DC TESTING(L:- N:+) O/P:LEDmax (4) I/P: LOW-LINE=142VDC HIGH-LINE=431VDC O/P: Dimming on/off 【 for Dimming type,】 (PLEASE CHECK DERATING CURVE) Ta:25°C I/P: LOW-LINE-3V=97V 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) 100 Vac~305Vac (2) 142 Vdc~431Vdc (3) 142 Vdc~431Vdc (4) OK (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/ 1.3A 115VAC/ 2.7A 277VAC/1.1A	I/P: 230VAC/115VAC/277VAC O/P:LEDmax CP 0.7A Ta:25°C	I =1.11A/ 230VAC I =2.255A/115VAC I =0.937A/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=0.971 /277V/100%LOAD PF=0.992/230V/100%LOAD PF=0.999/115V/100%LOAD

P.F vs LOAD



5	EFFICIENCY (TYP)	94%	I/P: 230VAC O/P:LEDmax CP 0.7A Ta:25°C	94.31%
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6	INRUSH CURRENT (TYP)	230V/ 85A COLD START (twidth=500 usmeasured at 50% Ipeak) COLD START	I/P: 230VAC O/P:LEDmax CP 0.7A Ta:25°C	I =76A /230VAC T50= 416us																												
<p>INPUT=230VAC/ 60HZ @ LEDMAX CH2 : AC Input Voltage CH1 : Input current</p> <p>7 12月2022 11:41:12</p>																																
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 : 7.37%230V /50% THD : 3.27%115V /50% THD : 7.21%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>3.5</td> <td>7.5</td> <td>10.0</td> </tr> <tr> <td>60%</td> <td>3.0</td> <td>6.8</td> <td>8.2</td> </tr> <tr> <td>70%</td> <td>2.5</td> <td>6.0</td> <td>7.5</td> </tr> <tr> <td>80%</td> <td>2.5</td> <td>6.5</td> <td>6.8</td> </tr> <tr> <td>90%</td> <td>2.5</td> <td>5.5</td> <td>6.5</td> </tr> <tr> <td>100%</td> <td>2.5</td> <td>2.5</td> <td>5.5</td> </tr> </tbody> </table>					LOAD (%)	115VAC THD (%)	230VAC THD (%)	277VAC THD (%)	50%	3.5	7.5	10.0	60%	3.0	6.8	8.2	70%	2.5	6.0	7.5	80%	2.5	6.5	6.8	90%	2.5	5.5	6.5	100%	2.5	2.5	5.5
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8	STANDBY POWER CONSUMPTION	Standby power consumption <0.5W (Dimming OFF, Only for standard version DA2-type)	I/P : 230VAC O/P : NO LOAD Ta : 25°C	0.417W																												
9	LEAKAGE CURRENT	EN61347-1 < 0.75mA / 277VAC	I/P: 277 VAC O/P:Min LOAD Ta:25°C	L-FG: 0.224mA N-FG: 0.210mA																												

PROTECTION 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 : 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: 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-240I 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

COMPONENT STRESS TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	PWM Transistor (D to S) or (C to E) Peak Voltage	Q3 Rated: 13A/600V	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 Q3 VDS: (1) 483V (2) 447V (3) 483V (4) 443V (5) 495V CP: 1.05A VDS: (1) 483V (2) 451V (3) 483V (4) 451V (5) 491V 97V CP: 0.7A Q3 VDS: (1) 475V (2) 455V (3) 471V (4) 443V (5) 491V CP: 1.05A Q3 VDS: (1) 475V (2) 455V (3) 471V (4) 455V (5) 495V
2	P.F.C Transistor (D to S) or (C to E) Peak Voltage	Q1 Rated: 26 A/600V	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) 535V (2) 523V (3) 535V (4) 499V (5) 535V 97V CP: 1.05A

			<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) 535V (2) 523V (3) 535V (4) 523V (5) 535V</p>
3	P.F.C DIODE	<p>D5 Rated: 8A/600V</p>	<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</p> <p>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>308VAC (1) 455V (2) 447V (3) 443V (4) 443V (5) 455V</p> <p>97VAC (1) 459V (2) 447V (3) 455V (4) 447V (5) 459V</p>
4	Diode Peak Voltage	<p>D100 Rated: 600V/9A</p>	<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 Q100 VDS: (1) 348V (2) 348V (3) 17.2V</p> <p>CP: 1.05A Q100 VDS: (1) 235V (2) 233V (3) 16.8V</p>
5	Input Capacitor Voltage	<p>C5 Rated: 120μ /450 V Surge voltage: 500 V</p>	<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)453V (2)445V (3)457V (4)441V</p>

6	Control IC Voltage Test	<p>PFC IC U1 Rated 10.5V~27V(MIN.)</p> <p>PWM IC U2 Rated 16.3V~ 20V(MIN.)</p> <p>O/P IC U107 Rated 3V~32V</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) 13.5V (2) 13.5V (3) 13.7V (4) 13.5V (5) 1.25V</p> <p>U107 (1) 14.7V (2) 14..7V (3) 14.7V (4) 13.9V (5) 14.1V</p>															
7	TOP SWITCHING STAND BY POWER	<p>U300 Rated 1.5A/ 750 V</p>	<p>AC ON/OFF CP: 0.7A I/P:High-Line +3V =308V O/P: (1)LEDmax (2) LEDmin</p> <p>I/P:Low-Line -3V =97 V O/P: (1)LEDmax (2) LEDmin</p> <p>Ta:25°C</p>	<p>308VAC CP: 0.7A (1) 564V (2) 568V</p> <p>97VAC (1) 568V (2) 568V</p>															
8	VCC Diode Peak Voltage	<p>D450 Rated: 2A/400V</p> <p>D470 Rated: 2A/400V</p>	<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</p>	<table border="0"> <tr> <td></td> <td>D450</td> <td>D470</td> </tr> <tr> <td></td> <td>(1)0.72A</td> <td>(1)1.84A</td> </tr> <tr> <td></td> <td>(2)0.41A</td> <td>(2)1.51A</td> </tr> <tr> <td></td> <td>(3)0.71A</td> <td>(3)1.80A</td> </tr> <tr> <td></td> <td>(4)0.41A</td> <td>(4)1.42A</td> </tr> </table>		D450	D470		(1)0.72A	(1)1.84A		(2)0.41A	(2)1.51A		(3)0.71A	(3)1.80A		(4)0.41A	(4)1.42A
	D450	D470																	
	(1)0.72A	(1)1.84A																	
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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:1.8KVAC/min	I/P-O/P: 4.125 KVAC/min I/P-FG: 2.4KVAC/min O/P-FG: 2.16KVAC/min Ta:25°C	I/P-O/P: 2.34mA I/P-FG:2.06 mA O/P-FG: 1.864mA 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:>9999 M Ω NO DAMAGE
3	GROUNDING CONTINUITY	EN61347-1 FG(PE) TO CHASSIS OR TRACE < 100 mΩ	40A / 2min Ta:25°C	9mΩ

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	EN55015	I/P:230VAC (50HZ) O/P: LEDmax /50% LOAD Ta:25°C	PASS Test by certified Lab
3	RADIATION	EN55015	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-240-L-DA2-A 1. ROOM AMBIENT BURN-IN : 2 HRS I/P : 230VAC O/P : FULL LOAD Ta= 25.8°C 2. HIGH AMBIENT BURN-IN : 2 HRS I/P : 230VAC O/P : FULL LOAD Ta=53.4°C																																																																																																														
				<table border="1"> <thead> <tr> <th>NO</th> <th>Position</th> <th>ROOM AMBIENT Ta= 25.8 °C</th> <th>HIGH AMBIENT Ta=53.4 °C</th> </tr> </thead> <tbody> <tr><td>1</td><td>ZNR1</td><td>57.1°C</td><td>83.4°C</td></tr> <tr><td>2</td><td>RTH1</td><td>69.7°C</td><td>93.5°C</td></tr> <tr><td>3</td><td>BD1</td><td>65.3°C</td><td>91.9°C</td></tr> <tr><td>4</td><td>C10</td><td>63.0°C</td><td>89.7°C</td></tr> <tr><td>5</td><td>L2</td><td>64.6°C</td><td>90.4°C</td></tr> <tr><td>6</td><td>Q1</td><td>66.2°C</td><td>93.0°C</td></tr> <tr><td>7</td><td>D5</td><td>66.8°C</td><td>93.9°C</td></tr> <tr><td>8</td><td>R7</td><td>64.9°C</td><td>91.6°C</td></tr> <tr><td>9</td><td>C5</td><td>61.4°C</td><td>88.0°C</td></tr> <tr><td>10</td><td>U1</td><td>62.4°C</td><td>89.6°C</td></tr> <tr><td>11</td><td>U2</td><td>62.5°C</td><td>89.1°C</td></tr> <tr><td>12</td><td>Q2</td><td>65.8°C</td><td>92.8°C</td></tr> <tr><td>13</td><td>Q3</td><td>64.7°C</td><td>91.6°C</td></tr> <tr><td>14</td><td>C51</td><td>64.9°C</td><td>91.8°C</td></tr> <tr><td>15</td><td>T1</td><td>66.8°C</td><td>93.7°C</td></tr> <tr><td>16</td><td>C104</td><td>60.5°C</td><td>87.6°C</td></tr> <tr><td>17</td><td>C105</td><td>60.5°C</td><td>87.3°C</td></tr> <tr><td>18</td><td>U107</td><td>59.8°C</td><td>86.6°C</td></tr> <tr><td>19</td><td>D100</td><td>64.5°C</td><td>91.8°C</td></tr> <tr><td>20</td><td>D101</td><td>67.4°C</td><td>95.1°C</td></tr> <tr><td>21</td><td>J102</td><td>62.3°C</td><td>89.4°C</td></tr> <tr><td>22</td><td>RT22</td><td>60.0°C</td><td>87.0°C</td></tr> <tr><td>23</td><td>U300</td><td>75.6°C</td><td>103.9°C</td></tr> <tr><td>24</td><td>T2</td><td>69.5°C</td><td>96.8°C</td></tr> <tr><td>25</td><td>U431</td><td>60.0°C</td><td>86.8°C</td></tr> <tr><td>26</td><td>TC</td><td>57.3°C</td><td>83.4°C</td></tr> </tbody> </table>	NO	Position	ROOM AMBIENT Ta= 25.8 °C	HIGH AMBIENT Ta=53.4 °C	1	ZNR1	57.1°C	83.4°C	2	RTH1	69.7°C	93.5°C	3	BD1	65.3°C	91.9°C	4	C10	63.0°C	89.7°C	5	L2	64.6°C	90.4°C	6	Q1	66.2°C	93.0°C	7	D5	66.8°C	93.9°C	8	R7	64.9°C	91.6°C	9	C5	61.4°C	88.0°C	10	U1	62.4°C	89.6°C	11	U2	62.5°C	89.1°C	12	Q2	65.8°C	92.8°C	13	Q3	64.7°C	91.6°C	14	C51	64.9°C	91.8°C	15	T1	66.8°C	93.7°C	16	C104	60.5°C	87.6°C	17	C105	60.5°C	87.3°C	18	U107	59.8°C	86.6°C	19	D100	64.5°C	91.8°C	20	D101	67.4°C	95.1°C	21	J102	62.3°C	89.4°C	22	RT22	60.0°C	87.0°C	23	U300	75.6°C	103.9°C	24	T2	69.5°C	96.8°C	25	U431	60.0°C	86.8°C	26	TC	57.3°C	83.4°C
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25	U431	60.0°C	86.8°C																																																																																																													
26	TC	57.3°C	83.4°C																																																																																																													
2	LOW TEMPERATURE TURN ON TEST	TURN ON AFTER 2 HOUR	I/P : 305VAC/110VAC 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 50 °C NO DAMAGE	I/P : 315VAC O/P : FULL LOAD Ta=50 °C HUMIDITY= 95% R.H	TEST : OK																																																																																																												
4	TEMPERATURE COEFFICIENT	±0.06%/°C (0~60°C)	I/P : 230 VAC O/P : FULL LOAD	±0.0006%/°C (0~60°C)																																																																																																												
5	STORAGE TEMPERATURE TEST	-40~+80°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 : AC OFF STATIC TEST : OK																																																																																																													

6	THERMAL SHOCK TEST	-40~+50°C	1. Thermal shock Temperature : -45°C~+55°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-240-L-DA2-A : 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) 93697 HRS (2) 102341 HRS (3) 110972 HRS
9	MTBF	Conducted by Parts Stress Analysis Prediction 1988.7K hrs min. Telcordia SR-332 (Bellcore) ; 170.5K 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