



Test Report: XLG-240-H-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: 4.28A & 6.66A Ta:25°C	CP4.28A: 4.2808A/230VAC@CV MAX-1V 4.2872A/230VAC@CV MIN 0.17% CP 6.66A: 6.689A/230VAC@CV MAX-1V 6.694A/230VAC@CV MIN 0.51%
2	FULL POWER CURRENT RANGE	4280~6660mA	I/P: 230VAC O/P:LEDmax CP: 4.28A & 6.66A Ta:25°C	59V/4.28A/230VAC 40V/6.66A/230VAC
3	OPEN CIRCUIT VOLTAGE (max)	65V	I/P: 230VAC O/P:NO LOAD CP: OPEN Ta:25°C	59.66V
4	CONSTANT CURRENT REGION	CP 4.28A: CH1:27V~56V CP 6.66A: CH1:27V~36V	I/P: 230VAC O/P:LEDmax CP: 4.28A & 6.66A Ta:25°C	CP 4.28A: 20V~ 57V/230VAC CP 6.66A: 20V~36 V/230VAC
5	CURRENT ADJ. RANGE	CH1: 2400mA~6660mA	I/P: 230VAC O/P:CVmin& CVmax-1V CP: 4.28A & 6.66A Ta:25°C	1806mA~5230mA/230VAC@CV MAX-1V 1808mA~7496mA/230VAC@CV MIN
6	CURRENT RIPPLE	5%(@ full load)	I/P: 230VAC O/P:LEDmax CP: 4.28A & 6.66A Ta:25°C	CP 4.28A: 1.44% CP 6.66A: 0.92%
7	AUXILIARY DC OUTPUT	12V@250mA tolerance ± 10%, ripple 200mVp-p (only for DA2-A-type)	I/P: 230VAC O/P:LEDmax CP: 4.28A & 6.66A Ta:25°C	PASS

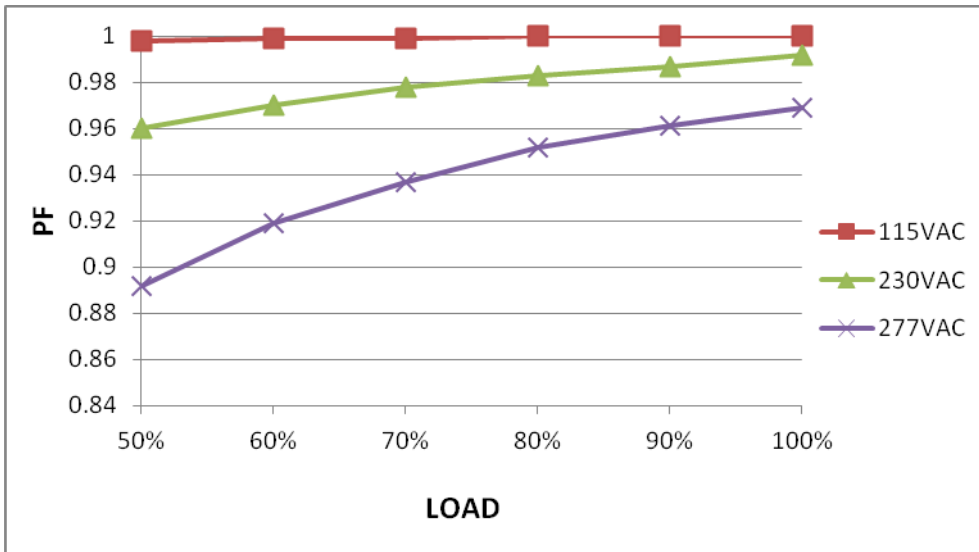
8	SET UP TIME	230VAC/ 500 ms (Max) 115VAC/ 1200 ms (Max)	I/P: 230VAC I/P: 115VAC O/P:LEDmax CP 4.28A Ta:25°C	230VAC/270ms 115VAC/ 350ms
INPUT=230VAC/50HZ @ LEDMAX@ CP 4.28A CH1 : Output Voltage CH2 : AC Input Voltage		INPUT=230VAC/60HZ @ LEDMAX@ CP 4.28A CH1 : Output Voltage CH2 : AC Input Voltage		

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=87 V HIGH-LINE+10V=308 V O/P: LEDmax / LEDmin CP 4.28A (PLEASE CHECK DERATING CURVE) ON: 30 Sec OFF: 30 Sec 10MIN (POWER ON/OFF NO DAMAGE)	(1) 87 Vac~305Vac (2) 142 Vdc~431Vdc (3) 142Vdc~431Vdc (4) 142Vdc~431Vdc (1).TEST:OK (2).TEST :OK
2	INPUT FREQUENCY RANGE	47HZ ~63 HZ NO DAMAGE	I/P: 100VAC ~305VAC O/P: LEDmax ~ LEDmin CP 4.28A Ta:25°C	TEST:OK

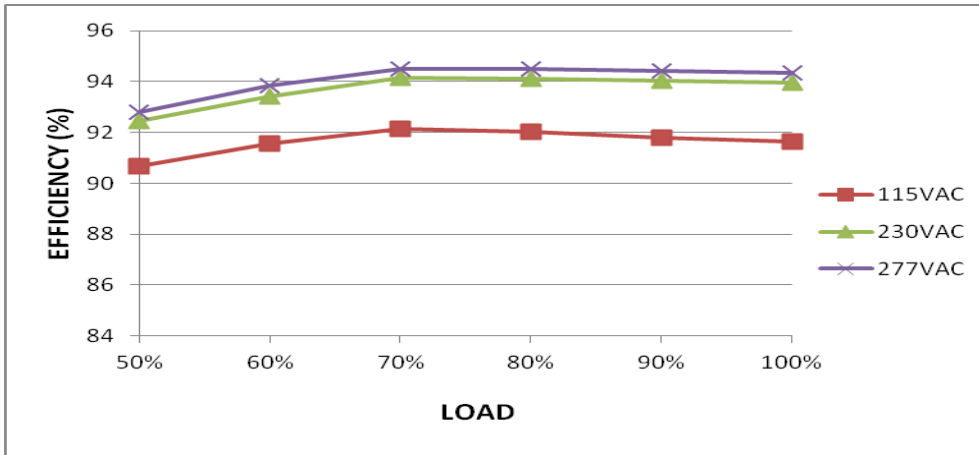
3	INPUT CURRENT (TYP)	230VAC/ 1.3A 115VAC/ 2.7A 277VAC/1.1A	I/P: 230VAC/115VAC/277VAC O/P:LEDmax CP 4.28A Ta:25°C	I =1.11A/ 230VAC I =2.256A/115VAC I =0.938A/277VAC
4	POWER FACTOR(TYP)	0.92/277VAC LEDMAX 0.95/230VAC LEDMAX 0.97/115VAC LEDMAX	I/P: 277VAC/230VAC/115VAC O/P:LEDmax CP 4.28A Ta:25°C	PF=0.969 /277V/100%LOAD PF=0.992/230V/100%LOAD PF=1.00/115V/100%LOAD

P.F vs LOAD



5	EFFICIENCY (TYP)	93%	I/P: 230VAC O/P:LEDmax CP 4.28A Ta:25°C	93.97%
---	------------------	-----	--	--------

EFFICIENCY vs LOAD



6	INRUSH CURRENT (TYP)	230V/ 85A COLD START (twidth=500 usmeasured at 50% Ipeak) COLD START	I/P: 230VAC O/P:LEDmax CP 4.28A Ta:25°C	I =74A /230VAC T50=400μ S																												
<p>INPUT=230VAC/ 60HZ @ LEDMAX CH4 : AC Input Voltage CH1 : Input current</p> <p>7 12月2022 11:10:38</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 4.28A Ta : 25°C	THD : 6.56%230V /50% THD : 2.77%115V /50% THD : 7.11%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>~2.8</td> <td>~6.6</td> <td>~9.8</td> </tr> <tr> <td>60%</td> <td>~3.1</td> <td>~7.1</td> <td>~8.1</td> </tr> <tr> <td>70%</td> <td>~1.9</td> <td>~6.2</td> <td>~7.4</td> </tr> <tr> <td>80%</td> <td>~2.0</td> <td>~6.5</td> <td>~6.6</td> </tr> <tr> <td>90%</td> <td>~2.1</td> <td>~5.4</td> <td>~6.5</td> </tr> <tr> <td>100%</td> <td>~2.2</td> <td>~2.8</td> <td>~5.5</td> </tr> </tbody> </table>					LOAD (%)	115VAC THD (%)	230VAC THD (%)	277VAC THD (%)	50%	~2.8	~6.6	~9.8	60%	~3.1	~7.1	~8.1	70%	~1.9	~6.2	~7.4	80%	~2.0	~6.5	~6.6	90%	~2.1	~5.4	~6.5	100%	~2.2	~2.8	~5.5
LOAD (%)	115VAC THD (%)	230VAC THD (%)	277VAC THD (%)																													
50%	~2.8	~6.6	~9.8																													
60%	~3.1	~7.1	~8.1																													
70%	~1.9	~6.2	~7.4																													
80%	~2.0	~6.5	~6.6																													
90%	~2.1	~5.4	~6.5																													
100%	~2.2	~2.8	~5.5																													
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	<0.4298W																												
9	LEAKAGE CURRENT	EN61347-1 < 0.75mA / 277VAC	I/P: 277 VAC O/P:Min LOAD Ta:25°C	L-FG: 0.2419mA N-FG: 0.2328mA																												

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 4.28A Ta:25°C	O.T.P Active PROTECTION TYPE : OK Stage 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: 4.28A &6.66A Ta:25°C	CP: 4.28A NO DAMAGE PROTECTION TYPE : Hiccup mode or constant current limiting, recovers automatically after fault condition is removed CP: 6.66A 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: 4.28A&6.66A 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 VGS: (1) LEDmax continue (2) LEDmin continue Ta:25°C	308V CP: 4.28A Q3 VDS: (1) 474V (2) 438V (3) 470V (4) 434V (5) 494V CP: 6.66A VDS: (1) 478V (2) 442V (3) 470V (4) 446V (5) 494 V 97V CP: 4.28A Q3 VDS: (1) 478V (2) 442V (3) 486V (4) 434V (5) 482V CP: 6.66A Q3 VDS: (1) 486V (2) 446V (3) 478V (4) 450V (5) 482V CP: 6.66A
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: 4.28A&6.66A VDS: O/P: (1)LEDmax (2) LEDmax continue (3) LEDmin (4) LEDmin continue (5) Output Short	308V CP: 4.28A Q1 VDS: (1) 470V (2) 458V (3) 470V (4) 446V (5) 454V 97V CP: 6.66A

			<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) 505V (2) 493V (3) 505V (4) 489V (5) 501V</p>
3	P.F.C DIODE	D5 Rated: 8A/600V	<p>I/P:High-Line +3V =308v AC ON/OFF CP: 4.28A 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) 498V (2) 485V (3) 489V (4)485V (5)465V (1) 461V (2) 449V (3) 469V (4)441V (5)477V</p>
4	Diode Peak Voltage	Q100 Rated: 40A/150V	<p>I/P:High-Line +3V =308v AC ON/OFF CP: 4.28A&6.66A VDS: O/P: (1)LEDmax (2) LEDmax continue (3) Output Short Ta:25°C</p>	<p>CP: 4.28A Q100 VDS: (1) 113.3V (2) 113.3V (3) 15.2V CP: 6.66A Q100 VDS: (1) 77.3V (2) 77.3V (3) 15.5V</p>
5	Input Capacitor Voltage	C5 Rated: 120μ /450 V Surge voltage: 500 V	<p>I/P:High-Line +3V =308v AC ON/OFF CP: 4.28A VDS: O/P: (1)LEDmax (2) LEDmax continue (3) LEDmin (4) LEDmin continue Ta:25°C</p>	<p>(1) 459V (2) 435V (3) 447V (4) 431V</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: 4.28A</p> <p>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) 13.36V (2) 13.2V (3) 13.4V (4) 13.4V (5) 13.4V</p> <p>U107 (1) 14.2V (2) 14.2V (3) 14.2V (4) 14.2V</p>										
7	TOP SWITCHING STAND BY POWER	<p>U300 Rated 1.5A/ 750 V</p>	<p>AC ON/OFF CP: 4.28A</p> <p>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>CP: 4.28A (1) 575V (2) 554V</p> <p>(1) 526V (2) 530V</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: 4.2A</p> <p>VDS: O/P: (1)LEDmax (2) LEDmax continue (3) LEDmin (4) LEDmin continue</p>	<table border="0"> <tr> <td>D450</td> <td>D470</td> </tr> <tr> <td>(1) 0.84A</td> <td>(1) 0.969A</td> </tr> <tr> <td>(2) 0.752A</td> <td>(2) 0.454A</td> </tr> <tr> <td>(3) 0.848A</td> <td>(3) 0.969A</td> </tr> <tr> <td>(4) 0.792A</td> <td>(4) 0.438A</td> </tr> </table>	D450	D470	(1) 0.84A	(1) 0.969A	(2) 0.752A	(2) 0.454A	(3) 0.848A	(3) 0.969A	(4) 0.792A	(4) 0.438A
D450	D470													
(1) 0.84A	(1) 0.969A													
(2) 0.752A	(2) 0.454A													
(3) 0.848A	(3) 0.969A													
(4) 0.792A	(4) 0.438A													

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: 2.16 KVAC/min Ta:25°C	I/P-O/P: 2.121mA I/P-FG: 1.982mA O/P-FG: 1.894mA 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: 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	12 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	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-H-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=51.9°C																																																																																																										
				<table border="1"> <thead> <tr> <th>NO</th> <th>Position</th> <th>ROOM AMBIENT Ta= 25.8 °C</th> <th>HIGH AMBIENT Ta=51.9 °C</th> </tr> </thead> <tbody> <tr><td>1</td><td>ZNR1</td><td>63.0°C</td><td>84.9°C</td></tr> <tr><td>2</td><td>RTH1</td><td>69.8°C</td><td>90.6°C</td></tr> <tr><td>3</td><td>BD1</td><td>69.3°C</td><td>92.6°C</td></tr> <tr><td>4</td><td>C10</td><td>68.6°C</td><td>90.6°C</td></tr> <tr><td>5</td><td>L2</td><td>69.4°C</td><td>91.1°C</td></tr> <tr><td>6</td><td>Q1</td><td>72.7°C</td><td>95.5°C</td></tr> <tr><td>7</td><td>D5</td><td>73.4°C</td><td>96.6°C</td></tr> <tr><td>8</td><td>R7</td><td>70.4°C</td><td>92.7°C</td></tr> <tr><td>9</td><td>C5</td><td>67.5°C</td><td>89.6°C</td></tr> <tr><td>10</td><td>U1</td><td>67.3°C</td><td>90.1°C</td></tr> <tr><td>11</td><td>U2</td><td>68.2°C</td><td>90.1°C</td></tr> <tr><td>12</td><td>Q2</td><td>72.8°C</td><td>95.7°C</td></tr> <tr><td>13</td><td>Q3</td><td>71.3°C</td><td>93.8°C</td></tr> <tr><td>14</td><td>C51</td><td>73.2°C</td><td>94.8°C</td></tr> <tr><td>15</td><td>T1</td><td>79.9°C</td><td>102.0°C</td></tr> <tr><td>16</td><td>C104</td><td>78.8°C</td><td>99.6°C</td></tr> <tr><td>17</td><td>C105</td><td>79.5°C</td><td>100.8°C</td></tr> <tr><td>18</td><td>U101</td><td>79.2°C</td><td>102.9°C</td></tr> <tr><td>19</td><td>Q100</td><td>84.1°C</td><td>109.0°C</td></tr> <tr><td>20</td><td>Q101</td><td>83.8°C</td><td>107.8°C</td></tr> <tr><td>21</td><td>J102</td><td>78.2°C</td><td>105.6°C</td></tr> <tr><td>22</td><td>RT22</td><td>70.0°C</td><td>89.4°C</td></tr> <tr><td>23</td><td>U300</td><td>78.3°C</td><td>92.2°C</td></tr> <tr><td>24</td><td>T2</td><td>77.9°C</td><td>92.1°C</td></tr> <tr><td>25</td><td>TC</td><td>65.5°C</td><td>86.6°C</td></tr> </tbody> </table>	NO	Position	ROOM AMBIENT Ta= 25.8 °C	HIGH AMBIENT Ta=51.9 °C	1	ZNR1	63.0°C	84.9°C	2	RTH1	69.8°C	90.6°C	3	BD1	69.3°C	92.6°C	4	C10	68.6°C	90.6°C	5	L2	69.4°C	91.1°C	6	Q1	72.7°C	95.5°C	7	D5	73.4°C	96.6°C	8	R7	70.4°C	92.7°C	9	C5	67.5°C	89.6°C	10	U1	67.3°C	90.1°C	11	U2	68.2°C	90.1°C	12	Q2	72.8°C	95.7°C	13	Q3	71.3°C	93.8°C	14	C51	73.2°C	94.8°C	15	T1	79.9°C	102.0°C	16	C104	78.8°C	99.6°C	17	C105	79.5°C	100.8°C	18	U101	79.2°C	102.9°C	19	Q100	84.1°C	109.0°C	20	Q101	83.8°C	107.8°C	21	J102	78.2°C	105.6°C	22	RT22	70.0°C	89.4°C	23	U300	78.3°C	92.2°C	24	T2	77.9°C	92.1°C	25	TC	65.5°C	86.6°C
NO	Position	ROOM AMBIENT Ta= 25.8 °C	HIGH AMBIENT Ta=51.9 °C																																																																																																									
1	ZNR1	63.0°C	84.9°C																																																																																																									
2	RTH1	69.8°C	90.6°C																																																																																																									
3	BD1	69.3°C	92.6°C																																																																																																									
4	C10	68.6°C	90.6°C																																																																																																									
5	L2	69.4°C	91.1°C																																																																																																									
6	Q1	72.7°C	95.5°C																																																																																																									
7	D5	73.4°C	96.6°C																																																																																																									
8	R7	70.4°C	92.7°C																																																																																																									
9	C5	67.5°C	89.6°C																																																																																																									
10	U1	67.3°C	90.1°C																																																																																																									
11	U2	68.2°C	90.1°C																																																																																																									
12	Q2	72.8°C	95.7°C																																																																																																									
13	Q3	71.3°C	93.8°C																																																																																																									
14	C51	73.2°C	94.8°C																																																																																																									
15	T1	79.9°C	102.0°C																																																																																																									
16	C104	78.8°C	99.6°C																																																																																																									
17	C105	79.5°C	100.8°C																																																																																																									
18	U101	79.2°C	102.9°C																																																																																																									
19	Q100	84.1°C	109.0°C																																																																																																									
20	Q101	83.8°C	107.8°C																																																																																																									
21	J102	78.2°C	105.6°C																																																																																																									
22	RT22	70.0°C	89.4°C																																																																																																									
23	U300	78.3°C	92.2°C																																																																																																									
24	T2	77.9°C	92.1°C																																																																																																									
25	TC	65.5°C	86.6°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	±0.0032%/°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-H-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) 41913 HRS (2) 46716 HRS (3) 72176 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