



Test Report: XLG-200-L-DA2

200W 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: 0.708A/230VAC@CV MAX-1V 0.710A/230VAC@CV MIN 1.42% CP 1.05A: 1.051A/230VAC@CV MAX-1V 1.053A/230VAC@CV MIN 0.285%
2	FULL POWER CURRENT RANGE	700~1050mA	I/P: 230VAC O/P:LEDmax CP: 0.7A & 1.05A Ta:25°C	285.2V/0.7A/230VAC 190.8V/1.05A/230VAC
3	OPEN CIRCUIT VOLTAGE (max)	320V	I/P: 230VAC O/P:NO LOAD CP: OPEN Ta:25°C	292.6V
4	CONSTANT CURRENT REGION	CP 0.7A: CH1:142V~ 285V CP 1.05A: CH1:142V~ 190V	I/P: 230VAC O/P:LEDmax CP: 0.7A & 1.05A Ta:25°C	CP 0.7A: 110V~ 291.2V/230VAC CP 1.05A: 110.8V~ 209.6V/230VAC
5	CURRENT ADJ. RANGE	CH1: 350mA~1050mA	I/P: 230VAC O/P:CVmin& CVmax-1V CP: 0.7A & 1.05A Ta:25°C	0.2826mA~0.8240mA/230VAC@C V MAX-1V 0.2828mA~1.1676mA /230VAC@CV MIN
6	CURRENT RIPPLE	4.0% max.	I/P: 230VAC O/P:LEDmax CP: 0.7A & 1.05A Ta:25°C	CP 0.7A: 2.82% CP 1.05A: 1.78%
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

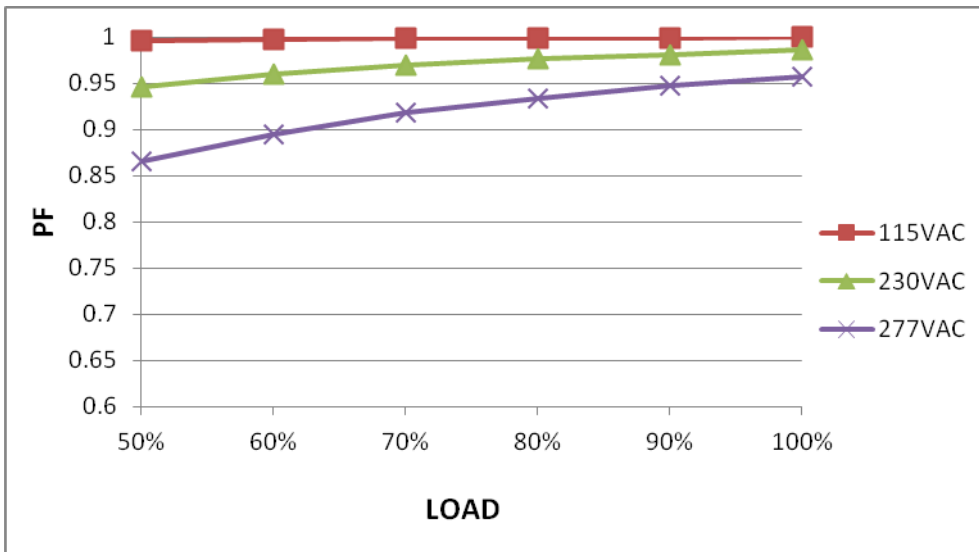
8	SET UP TIME	230VAC/ 500 ms (Max) 115VAC/ 1200 ms (Max)	I/P: 230VAC I/P: 115VAC O/P:LEDmax CP 0.7A Ta:25°C	230VAC/448ms 115VAC/ 572ms
<p>INPUT=230VAC/50HZ @ LEDMAX@ CP 0.7A CH1 : Output Voltage CH2 : AC Input Voltage</p>		<p>INPUT=230VAC/60HZ @ LEDMAX@ CP 0.7A CH1 : Output Voltage CH2 : AC Input Voltage</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 (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 0.7A (PLEASE CHECK DERATING CURVE) ON: 30 Sec OFF: 30 Sec 10MIN (POWER ON/OFF NO DAMAGE)	(1) 92Vac~308Vac (2) 139Vdc~434Vdc (3) 139Vdc~434Vdc (4) 139Vdc~434Vdc (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

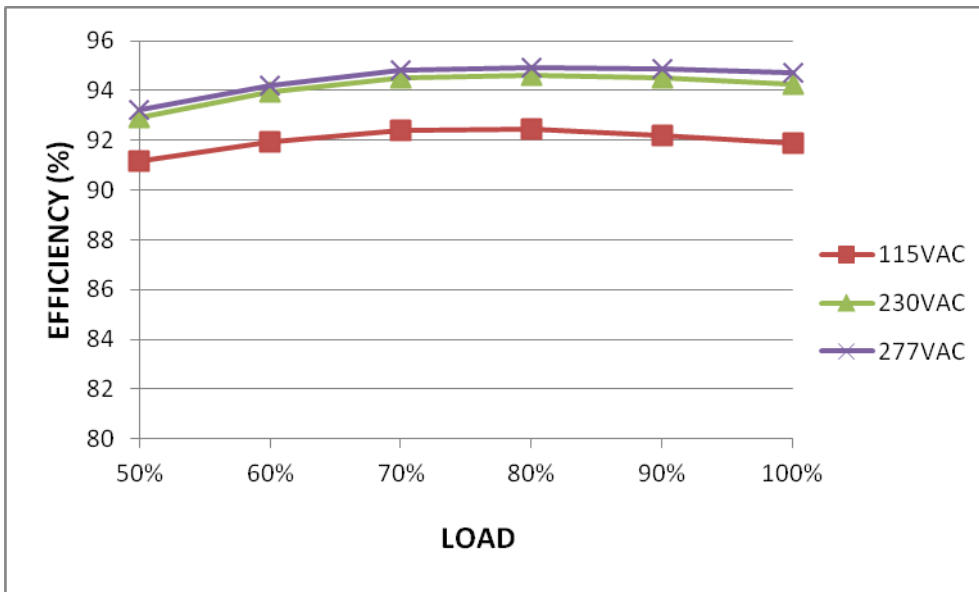
3	INPUT CURRENT (TYP)	230VAC/ 1.1A 115VAC/ 2.2A 277VAC/0.9A	I/P: 230VAC/115VAC/277VAC O/P:LEDmax CP 0.7A Ta:25°C	I =0.923A/ 230VAC I =1.861A/115VAC I =0.786A/277VAC
4	POWER FACTOR(TYP)	0.92/277VAC LEDMAX 0.95/230VAC LEDMAX 0.97/115VAC LEDMAX	I/P: 277VAC/230VAC/115VAC O/P:LEDmax CP 0.7A Ta:25°C	PF=0.957 /277V/100%LOAD PF=0.986/230V/100%LOAD PF=0.999/115V/100%LOAD

P.F vs LOAD



5	EFFICIENCY	94%	I/P: 230VAC O/P:LEDmax CP 0.7A Ta:25°C	94.26%
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EFFICIENCY vs LOAD



6	INRUSH CURRENT (TYP)	230V/75A COLD START (twidth=400 usmeasured at 50% Ipeak) COLD START	I/P: 230VAC O/P:LEDmax CP 0.7A Ta:25°C	I =71.6A/230VAC T50= 384 μ S																												
<p>INPUT=230VAC/ 60HZ @ LEDMAX CH2 : AC Input Voltage CH1 : Input current</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 : 6.98%230V /50% THD : 3.4%115V /50% THD : 7.74%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>3.4</td> <td>7.0</td> <td>11.5</td> </tr> <tr> <td>60%</td> <td>3.0</td> <td>6.8</td> <td>9.5</td> </tr> <tr> <td>70%</td> <td>2.8</td> <td>6.5</td> <td>8.2</td> </tr> <tr> <td>80%</td> <td>2.5</td> <td>6.6</td> <td>7.2</td> </tr> <tr> <td>90%</td> <td>2.4</td> <td>6.0</td> <td>6.8</td> </tr> <tr> <td>100%</td> <td>2.5</td> <td>5.0</td> <td>6.5</td> </tr> </tbody> </table>					LOAD	115VAC THD (%)	230VAC THD (%)	277VAC THD (%)	50%	3.4	7.0	11.5	60%	3.0	6.8	9.5	70%	2.8	6.5	8.2	80%	2.5	6.6	7.2	90%	2.4	6.0	6.8	100%	2.5	5.0	6.5
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8	STANDBY POWER CONSUMPTION	Standby power consumption <0.5W (Dimming OFF, Only for standard DA2-type)	I/P : 230VAC O/P : NO LOAD Ta : 25°C	0.4428W																												
9	LEAKAGE CURRENT	EN61347-1 < 0.75mA / 277VAC	I/P: 277 VAC O/P:Min LOAD Ta:25°C	L-FG:0.159 mA N-FG: 0.430mA																												

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 remove
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-200I 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	Q6 Rated: 12A /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) 209V (2) 456V (3) 505V (4) 432V (5) 537V CP: 1.05A VDS: (1) 501V (2) 456V (3) 509V (4) 456V (5) 533V 97V CP: 0.7A Q3 VDS: (1) 513V (2) 448V (3) 521V (4) 436V (5) 537V
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: 0.7A 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 Q1 VDS: (1) 545V (2) 477V (3) 545V (4) 477V (5) 465V 97V CP: 0.7A Q1 VDS: (1) 557V (2) 537V (3) 557V (4) 505V (5) 541V

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 = 107V O/P: (1)LEDmax (2) LEDmax continue (3) LEDmin (4) LEDmin continue (5) Output Short Ta:25°C</p>	<p>(1)469 V (2) 453V (3) 469V (4)453V (5)469V</p> <p>(1) 469V (2) 453V (3) 469V (4)465V (5)465V</p>
4	Diode Peak Voltage	<p>D100 Rated: 6A/400V</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) 288V (2) 284V (3) 0.21V CP: 1.05A Q100 VDS: (1) 190V (2) 190V (3) 7V</p>
5	Input Capacitor Voltage	<p>C5 Rated: 120μ /450 V Surge voltage: 540 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) 457V (2) 444V (3) 469V (4) 440V</p>
6	Control IC Voltage Test	<p>PFC IC U1 Rated MW05A 10.5V~27V</p> <p>PWM IC U2 Rated 13V~ 26V</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>U1&U2 (1) 14.6V (2) 14.6V (3) 14.8V (4) 14.6V (5) 14.6V</p>

			Ta:25°C	U107 (1) 10.44V (2) 10.36V (3) 10.28V (4) 10.52V (5) 10.28V															
7	TOP SWITCHING STAND BY POWER	U300 Rated 1.5A/750V	AC ON/OFF CP: 0.7A I/P:High-Line +3V =308V O/P: (1)LEDmax (2) LEDmin I/P:Low-Line -3V =107 V O/P: (1)LEDmax (2) LEDmin Ta:25°C	CP: 0.7A (1) 525V (2) 549V (1) 549V (2) 545V															
8	VCC Diode Peak Voltage	D304 Rated: 2 A/400V D450 Rated: 2 A/400V D470 Rated: 2 A/400V	I/P:High-Line +3V =308v AC ON/OFF CP: 3.5A VDS: O/P: (1)LEDmax (2) LEDmax continue (3) LEDmin (4) LEDmin continue	<table border="0"> <tr> <td>D304</td> <td>D450</td> <td>D470</td> </tr> <tr> <td>(1) 0.92A</td> <td>(1) 0.88A</td> <td>(1)1.82A</td> </tr> <tr> <td>(2) 0.65A</td> <td>(2)0.71A</td> <td>(2)1.56A</td> </tr> <tr> <td>(3) 0.87A</td> <td>(3)0.89 A</td> <td>(3)1.78A</td> </tr> <tr> <td>(4) 0.55A</td> <td>(4)0.78A</td> <td>(4)1.42A</td> </tr> </table>	D304	D450	D470	(1) 0.92A	(1) 0.88A	(1)1.82A	(2) 0.65A	(2)0.71A	(2)1.56A	(3) 0.87A	(3)0.89 A	(3)1.78A	(4) 0.55A	(4)0.78A	(4)1.42A
D304	D450	D470																	
(1) 0.92A	(1) 0.88A	(1)1.82A																	
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(4) 0.55A	(4)0.78A	(4)1.42A																	

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: 2.574mA I/P-FG: 3.069mA O/P-FG:2.448 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: 999MΩ 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-200-L-DA2-A 1. ROOM AMBIENT BURN-IN : 2 HRS I/P : 230VAC O/P : FULL LOAD Ta= 27.2°C 2. HIGH AMBIENT BURN-IN : 2 HRS I/P : 230VAC O/P : FULL LOAD Ta=52°C																																																																																																																		
				<table border="1"> <thead> <tr> <th>NO</th> <th>Position</th> <th>ROOM AMBIENT Ta= 27.2 °C</th> <th>HIGH AMBIENT Ta=52 °C</th> </tr> </thead> <tbody> <tr><td>1</td><td>RTH1</td><td>66.0°C</td><td>84.7°C</td></tr> <tr><td>2</td><td>LF2</td><td>63.5°C</td><td>84.1°C</td></tr> <tr><td>3</td><td>BD1</td><td>65.5°C</td><td>86.6°C</td></tr> <tr><td>4</td><td>L2</td><td>66.1°C</td><td>86.2°C</td></tr> <tr><td>5</td><td>R7</td><td>67.0°C</td><td>87.0°C</td></tr> <tr><td>6</td><td>C5</td><td>66.3°C</td><td>86.2°C</td></tr> <tr><td>7</td><td>C51</td><td>70.0°C</td><td>89.4°C</td></tr> <tr><td>8</td><td>Q1</td><td>67.8°C</td><td>86.9°C</td></tr> <tr><td>9</td><td>D5</td><td>66.8°C</td><td>88.2°C</td></tr> <tr><td>10</td><td>Q5</td><td>66.7°C</td><td>88.0°C</td></tr> <tr><td>11</td><td>Q6</td><td>67.0°C</td><td>88.4°C</td></tr> <tr><td>12</td><td>U1</td><td>64.5°C</td><td>85.5°C</td></tr> <tr><td>13</td><td>U2</td><td>64.3°C</td><td>87.5°C</td></tr> <tr><td>14</td><td>T1core</td><td>68.8°C</td><td>90.9°C</td></tr> <tr><td>15</td><td>T1</td><td>70.0°C</td><td>92.8°C</td></tr> <tr><td>16</td><td>D100</td><td>37.0°C</td><td>92.4°C</td></tr> <tr><td>17</td><td>D101</td><td>70.2°C</td><td>91.5°C</td></tr> <tr><td>18</td><td>D102</td><td>65.1°C</td><td>88.4°C</td></tr> <tr><td>19</td><td>C105</td><td>63.2°C</td><td>75.6°C</td></tr> <tr><td>20</td><td>C106</td><td>63.4°C</td><td>85.2°C</td></tr> <tr><td>21</td><td>U300</td><td>82.7°C</td><td>96.2°C</td></tr> <tr><td>22</td><td>T2</td><td>73.4°C</td><td>92.9°C</td></tr> <tr><td>23</td><td>C312</td><td>70.0°C</td><td>90.8°C</td></tr> <tr><td>24</td><td>RG47</td><td>68.0°C</td><td>90.5°C</td></tr> <tr><td>25</td><td>U431</td><td>60.5°C</td><td>82.2°C</td></tr> <tr><td>26</td><td>RT22</td><td>61.1°C</td><td>82.3°C</td></tr> <tr><td>27</td><td>TC</td><td>59.6°C</td><td>79.3°C</td></tr> </tbody> </table>	NO	Position	ROOM AMBIENT Ta= 27.2 °C	HIGH AMBIENT Ta=52 °C	1	RTH1	66.0°C	84.7°C	2	LF2	63.5°C	84.1°C	3	BD1	65.5°C	86.6°C	4	L2	66.1°C	86.2°C	5	R7	67.0°C	87.0°C	6	C5	66.3°C	86.2°C	7	C51	70.0°C	89.4°C	8	Q1	67.8°C	86.9°C	9	D5	66.8°C	88.2°C	10	Q5	66.7°C	88.0°C	11	Q6	67.0°C	88.4°C	12	U1	64.5°C	85.5°C	13	U2	64.3°C	87.5°C	14	T1core	68.8°C	90.9°C	15	T1	70.0°C	92.8°C	16	D100	37.0°C	92.4°C	17	D101	70.2°C	91.5°C	18	D102	65.1°C	88.4°C	19	C105	63.2°C	75.6°C	20	C106	63.4°C	85.2°C	21	U300	82.7°C	96.2°C	22	T2	73.4°C	92.9°C	23	C312	70.0°C	90.8°C	24	RG47	68.0°C	90.5°C	25	U431	60.5°C	82.2°C	26	RT22	61.1°C	82.3°C	27	TC	59.6°C	79.3°C
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21	U300	82.7°C	96.2°C																																																																																																																	
22	T2	73.4°C	92.9°C																																																																																																																	
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24	RG47	68.0°C	90.5°C																																																																																																																	
25	U431	60.5°C	82.2°C																																																																																																																	
26	RT22	61.1°C	82.3°C																																																																																																																	
27	TC	59.6°C	79.3°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	±0.0002%/°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 : 10min/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-200-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) 74458 HRS (2) 79110 HRS (3) 91273 HRS
9	MTBF	Conducted by Parts Stress Analysis Prediction 1747.5K hrs min. Telcordia SR-332 (Bellcore) ; 150.1K 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