



# Test Report: XLG-150-H- DA2

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150W 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

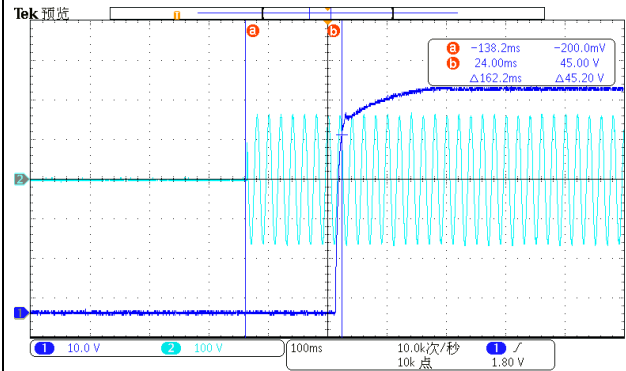
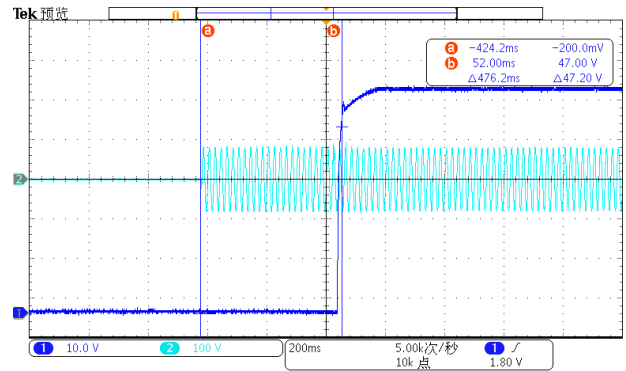
## ■ RELIABILITY TEST

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: 2.68A & 4.17A Ta:25°C	CP 2.68A: 2.683A/230VAC@CV MAX-1V 2.681A/230VAC@CV MIN  0.39% CP 4.17A: 4.178A/230VAC@CV MAX-1V 4.172A/230VAC@CV MIN 1.27%
2	FULL POWER CURRENT RANGE	2680~4170mA	I/P: 230VAC O/P:LEDmax CP: 2.68A & 4.17A Ta:25°C	56V/2.68A/230VAC 36V/4.17A/230VAC
3	OPEN CIRCUIT VOLTAGE (max)	65V	I/P: 230VAC O/P:NO LOAD CP: OPEN Ta:25°C	57.99V
4	CONSTANT CURRENT REGION	CP 2.68A: CH1:27V~ 56V  CP 4.17A: CH1:27V~ 36V	I/P: 230VAC O/P:LEDmax CP: 2.68A & 4.17A Ta:25°C	CP 2.68A: 5.25V~56.7V/230VAC  CP 4.17A: 4.58V~39.8V/230VAC
5	CURRENT ADJ. RANGE	CH1: 1400mA~4170mA	I/P: 230VAC O/P:CVmin& CVmax-1V CP: 2.68A & 4.17A Ta:25°C	1.067A~3.082A/230VAC@CV MAX-1V 1.078A~4.462A /230VAC@CV MIN
6	CURRENT RIPPLE	4.0% (@full load)	I/P: 230VAC O/P:LEDmax CP: 2.68A & 4.17A Ta:25°C	CP 2.68A: 3.41%  CP 4.17A: 2.93%
7	AUXILIARY DC OUTPUT	12V@250mA tolerance ± 10%, ripple 200mVp-p (only for DA2-A-type)	I/P: 230VAC O/P:LEDmax CP: 2.68A & 4.17A Ta:25°C	PASS

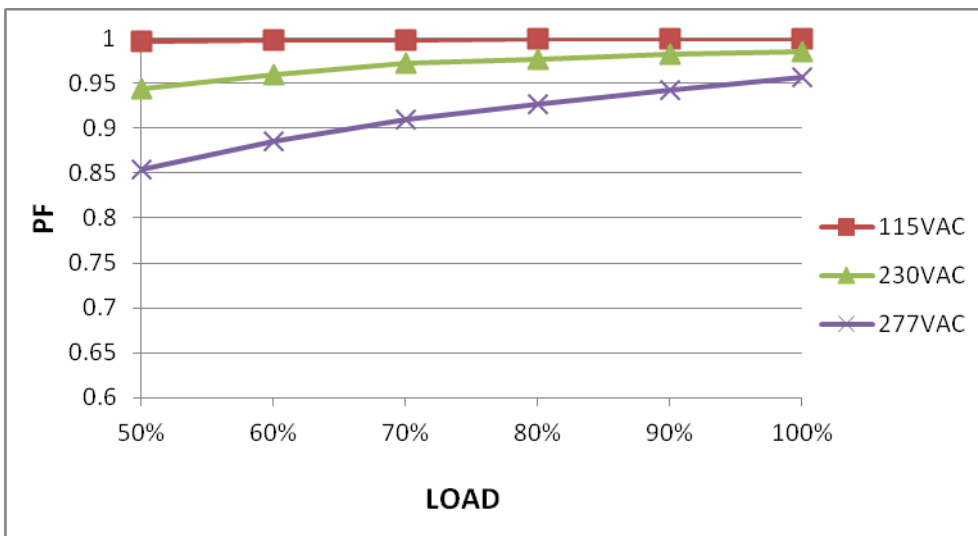
8	SET UP TIME	230VAC/ 500 ms (Max) 115VAC/ 1200 ms (Max)	I/P: 230VAC I/P: 115VAC O/P:LEDmax CP 2.68A Ta:25°C	230VAC/162ms 115VAC/ 476.2ms
INPUT=230VAC/50HZ @ LEDMAX@ CP 2.68A CH1 : Output Voltage CH2 : AC Input Voltage		INPUT=115VAC/60HZ @ LEDMAX@ CP 2.68A CH1 : Output Voltage CH2 : AC Input Voltage		
				

### 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) 83Vac~308Vac (2) 120Vdc~435Vdc (3) 120Vdc~435Vdc (4) OK
			I/P: LOW-LINE-3V=97 V HIGH-LINE+10V=308 V O/P: LEDmax / LEDmin CP 2.68A (PLEASE CHECK DERATING CURVE) ON: 30 Sec OFF: 30 Sec 10MIN ( POWER ON/OFF NO DAMAGE )	(1).TEST:OK (2).TEST:OK

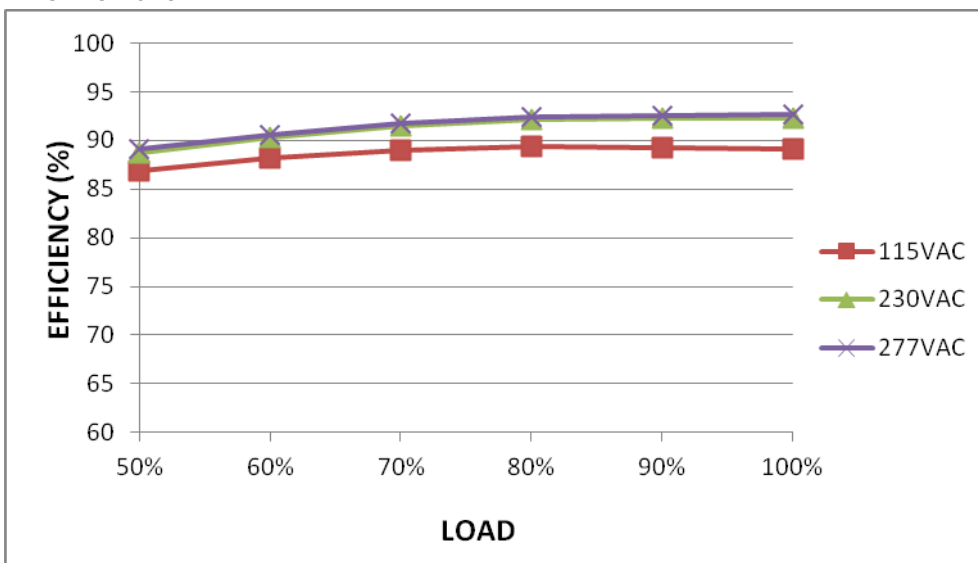
2	INPUT FREQUENCY RANGE	47HZ ~63 HZ NO DAMAGE	I/P: 100VAC ~305VAC O/P: LEDmax ~ LEDmin CP 2.68A Ta:25°C	TEST:OK
3	INPUT CURRENT (TYP)	230VAC/ 1.0A 115VAC/ 1.8A 277VAC/0.8A	I/P: 230VAC/115VAC/277VAC O/P:LEDmax CP 2.68A Ta:25°C	I =0.702A/ 230VAC I =1.416A/115VAC I =0.592A/277VAC
4	POWER FACTOR(TYP)	0.92/277VAC LEDMAX 0.95/230VAC LEDMAX 0.97/115VAC LEDMAX	I/P: 277VAC/230VAC/115VAC O/P:LEDmax CP 2.68A Ta:25°C	PF= 0.964/277V/100%LOAD PF=0.988/230V/100%LOAD PF=0.999/115V/100%LOAD

P.F vs LOAD



5	EFFICIENCY (TYP)	92%	I/P: 230VAC O/P:LEDmax CP 2.68A/4.17A Ta:25°C	92.79%
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EFFICIENCY vs LOAD



6	INRUSH CURRENT (TYP)	230V/ 60A COLD START  (twidth=500 usmeasured at 50% Ipeak) COLD START	I/P: 230VAC O/P:LEDmax CP 2.68A Ta:25°C	I =47.8A /230VAC T50=408uS																												
<p>INPUT=230VAC/ 60HZ @ LEDMAX CH2 : AC Input Voltage CH4 : Input current</p> <p>Ch2 100 V 100ms M 200µs A Ch4 18.0 A Ch4 10.0 A Ω% 22.60 %</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 2.68A Ta : 25°C	THD : 6.42%230V /50% THD : 3.42%115V /50% THD : 7.03%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>3.42</td> <td>6.42</td> <td>11.0</td> </tr> <tr> <td>60%</td> <td>3.1</td> <td>5.0</td> <td>9.0</td> </tr> <tr> <td>70%</td> <td>3.0</td> <td>4.0</td> <td>7.5</td> </tr> <tr> <td>80%</td> <td>2.9</td> <td>3.4</td> <td>6.8</td> </tr> <tr> <td>90%</td> <td>2.8</td> <td>2.9</td> <td>5.5</td> </tr> <tr> <td>100%</td> <td>2.8</td> <td>2.8</td> <td>5.0</td> </tr> </tbody> </table>					LOAD (%)	115VAC THD (%)	230VAC THD (%)	277VAC THD (%)	50%	3.42	6.42	11.0	60%	3.1	5.0	9.0	70%	3.0	4.0	7.5	80%	2.9	3.4	6.8	90%	2.8	2.9	5.5	100%	2.8	2.8	5.0
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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	0.4475W																												
9	LEAKAGE CURRENT	< 0.75mA / 230VAC	I/P: 277 VAC O/P:Min LOAD Ta:25°C	L-FG: 0.636mA N-FG: 0.167mA																												

## 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 2.68A 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: 2.68A &4.17A Ta:25°C	CP: 2.68A NO DAMAGE PROTECTION TYPE : OK Hiccup mode or constant current limiting, recovers automatically after fault condition is removed CP: 4.17A NO DAMAGE PROTECTION TYPE : OK Hiccup mode or constant current limiting, recovers automatically after fault condition is removed
3	INPUT OVER VOLTAGE (for XLG-150I 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: 11A/600V	<p>I/P:High-Line +3V =308v AC ON/OFF CP: 2.68A VDS: O/P: (1)LEDmax (2) LEDmax continue (3) LEDmin (4) LEDmin continue (5) Output Short</p> <p>I/P:Low-Line -3V = 97V VDS: O/P: (1)LEDmax (2) LEDmax continue (3) LEDmin (4) LEDmin continue (5) Output Short</p> <p>Ta:25°C</p>	<p>308V CP: 2.68A Q6 VDS: (1) 471V (2) 439V (3) 463V (4) 435V (5) 503V</p> <p>CP: 4.17A VDS: (1) 463V (2) 443V (3) 455V (4) 447V (5) 523V</p> <p>97V CP: 2.68A Q6 VDS: (1) 483V (2) 447V (3) 443V (4) 431V (5) 515V</p>
2	P.F.C Transistor ( D to S) or (C to E) Peak Voltage	Q1 Rated: 10.6A/650V	<p>I/P:High-Line +3V =308V AC ON/OFF CP: 2.68A VDS: O/P: (1)LEDmax (2) LEDmax continue (3) LEDmin (4) LEDmin continue (5) Output Short</p> <p>I/P:Low-Line -3V = 97V VDS: O/P: (1)LEDmax (2) LEDmax continue (3) LEDmin (4) LEDmin continue (5) Output Short</p> <p>Ta:25°C</p>	<p>308V CP: 2.68A Q1 VDS: (1) 515V (2) 483V (3) 515V (4) 459V (5) 463V</p> <p>97V CP: 2.68A Q1 VDS: (1) 535V (2) 507V (3) 531V (4) 491V (5) 547V</p>

3	P.F.C DIODE	D5 Rated: 9A/600V	<p>I/P:High-Line +3V =308V AC ON/OFF <b>CP: 2.68A/4.17A</b> VDS: O/P: (1)LEDmax (1) 499V (2) LEDmax continue (2) 487V (3) LEDmin (3) 503V (4) LEDmin continue (4)495V (5) Output Short (5)483V</p> <p>I/P:Low-Line -3V = 97V O/P: (1)LEDmax (1) 458V (2) LEDmax continue (2) 438V (3) LEDmin (3) 458V (4) LEDmin continue (4)442V (5) Output Short (5)458V</p> <p>Ta:25°C</p>	
4	Diode Peak Voltage	D100 Rated: 10A/150V	<p>I/P:High-Line +3V =308V AC ON/OFF <b>CP: 2.68A</b> VDS: O/P: (1)LEDmax (1) 124.9V (2) LEDmax continue (2) 123.3V (3) Output Short (3) 16.3V</p> <p><b>CP: 4.17A</b> D100 VDS: (1) 83.9V (2) 83.1V (3) 15.5V</p>	
5	Input Capacitor Voltage	C5 Rated: 82μ /450 V  Surge voltage: 540V	<p>I/P:High-Line +3V =308V AC ON/OFF <b>CP: 2.68A</b> VDS: O/P: (1)LEDmax (1) 459V (2) LEDmax continue (2) 447V (3) LEDmin (3) 451V (4) LEDmin continue (4) 435V</p> <p>Ta:25°C</p>	
6	Control IC Voltage Test	<p>PFC IC U1 Rated 9.75V~27V(MIN.)</p> <p>PWM IC U2 Rated 13V~26 V(MIN.)</p> <p>O/P IC U107 Rated 3V~30V</p>	<p>I/P:High-Line +3V =308V AC ON/OFF <b>CP: 2.68A</b> VDS: O/P: (1)LEDmax (1) 14.8V (2) LEDmin (2) 14.8V (3) Output Short (3) 14.8V (4) NO LOAD (4) 14.8V VRmin.LOW LINE (5)DIM OFF (5) 1.1V</p> <p>Ta:25°C</p>	



				<p>U100</p> <p>(1) 10.36V</p> <p>(2) 10.44V</p> <p>(3) 10.366V</p> <p>(4) 10.36V</p> <p>(5) 10.36V</p>
7	TOP SWITCHING STAND BY POWER	U300 Rated 1.5A/ 750V	<p>AC ON/OFF</p> <p><b>CP: 2.68A</b></p> <p>I/P:High-Line +3V =308V</p> <p>O/P: (1)LEDmax</p> <p>(2) LEDmin</p> <p>I/P:Low-Line -3V =97 V</p> <p>O/P: (1)LEDmax</p> <p>(2) LEDmin</p> <p>Ta:25°C</p>	<p><b>CP: 2.68A</b></p> <p>(1) 540V</p> <p>(2) 540V</p> <p>(1) 536V</p> <p>(2) 524V</p>
8	VCC Diode Peak Voltage	<p>D304 Rated: 2 A/400V</p> <p>D450 Rated: 2 A/400V</p> <p>D470 Rated: 2 A/400V</p>	<p>I/P:High-Line +3V =308v</p> <p>AC ON/OFF</p> <p><b>CP: 0.7A</b></p> <p>VDS:</p> <p>O/P: (1)LEDmax</p> <p>(2) LEDmax continue</p> <p>(3) LEDmin</p> <p>(4) LEDmin continue</p>	<p>D304</p> <p>(1)0.688 A</p> <p>(2) 0.357A</p> <p>(3) 1.097A</p> <p>(4) 0.365A</p> <p>D405</p> <p>(1) 0.79A</p> <p>(2) 0.3A</p> <p>(3) 0.87A</p> <p>(4) 0.46A</p> <p>D470</p> <p>(1) 0.93A</p> <p>(2)0.086 A</p> <p>(3) 0.756A</p> <p>(4) 0.362A</p>

## 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: 2.382 mA I/P-FG: 2.241mA O/P-FG: 2.656mA 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: >9999MΩ NO DAMAGE
3	GROUNDING CONTINUITY	EN61347-1 FG(PE) TO CHASSIS OR TRACE < 100 mΩ	40A / 2min Ta:25°C	14mΩ

### 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	FCC PART 15	I/P:230VAC (50HZ) O/P: LEDmax /50% LOAD Ta:25°C	PASS Test by certified Lab
3	RADIATION	FCC PART 15	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 : 230 VAC/50HZ O/P : FULL LOAD Ta : 25°C	CRITERIA A
5	E.F.T	EN61000-4-4 LIGHT INDUSTRY INPUT : 2KV	I/P : 230VAC/50HZ O/P : FULL LOAD Ta : 25°C	CRITERIA A
6	SURGE	EN61000-4-5 LIGHT INDUSTRY L-N : 4KV L-PE : 6KV	I/P : 230VAC/50HZ O/P : FULL LOAD 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-150-H-DA2 1. ROOM AMBIENT BURN-IN : 2 HRS I/P : 230VAC O/P : FULL LOAD Ta= 26.2°C 2. HIGH AMBIENT BURN-IN : 2 HRS I/P : 230VAC O/P : FULL LOAD Ta=54.9°C																																																																																		
				<table border="1"> <thead> <tr> <th>NO</th> <th>Position</th> <th>ROOM AMBIENT Ta= 26.2 °C</th> <th>HIGH AMBIENT Ta=54.9 °C</th> </tr> </thead> <tbody> <tr><td>1</td><td>RTH2</td><td>64.5°C</td><td>88.2°C</td></tr> <tr><td>2</td><td>BD1</td><td>62.9°C</td><td>88.5°C</td></tr> <tr><td>3</td><td>Q1</td><td>62.3°C</td><td>88.2°C</td></tr> <tr><td>4</td><td>R7</td><td>63.8°C</td><td>90.1°C</td></tr> <tr><td>5</td><td>C51</td><td>65.4°C</td><td>92.1°C</td></tr> <tr><td>6</td><td>C5</td><td>63.4°C</td><td>89.7°C</td></tr> <tr><td>7</td><td>T1</td><td>74.7°C</td><td>101.6°C</td></tr> <tr><td>8</td><td>U1</td><td>61.5°C</td><td>87.5°C</td></tr> <tr><td>9</td><td>Q6</td><td>70.4°C</td><td>100.3°C</td></tr> <tr><td>10</td><td>D100</td><td>75.1°C</td><td>102.8°C</td></tr> <tr><td>11</td><td>D101</td><td>77.3°C</td><td>105.5°C</td></tr> <tr><td>12</td><td>U300</td><td>64.1°C</td><td>90.4°C</td></tr> <tr><td>13</td><td>J102</td><td>72.0°C</td><td>99.3°C</td></tr> <tr><td>14</td><td>C105</td><td>69.6°C</td><td>96.9°C</td></tr> <tr><td>15</td><td>RT22</td><td>59.9°C</td><td>86.1°C</td></tr> <tr><td>16</td><td>C312</td><td>62.8°C</td><td>88.8°C</td></tr> <tr><td>17</td><td>T2</td><td>62.0°C</td><td>88.2°C</td></tr> <tr><td>18</td><td>RG47</td><td>57.3°C</td><td>83.3°C</td></tr> <tr><td>19</td><td>TC</td><td>57.6°C</td><td>82.8°C</td></tr> </tbody> </table>	NO	Position	ROOM AMBIENT Ta= 26.2 °C	HIGH AMBIENT Ta=54.9 °C	1	RTH2	64.5°C	88.2°C	2	BD1	62.9°C	88.5°C	3	Q1	62.3°C	88.2°C	4	R7	63.8°C	90.1°C	5	C51	65.4°C	92.1°C	6	C5	63.4°C	89.7°C	7	T1	74.7°C	101.6°C	8	U1	61.5°C	87.5°C	9	Q6	70.4°C	100.3°C	10	D100	75.1°C	102.8°C	11	D101	77.3°C	105.5°C	12	U300	64.1°C	90.4°C	13	J102	72.0°C	99.3°C	14	C105	69.6°C	96.9°C	15	RT22	59.9°C	86.1°C	16	C312	62.8°C	88.8°C	17	T2	62.0°C	88.2°C	18	RG47	57.3°C	83.3°C	19	TC	57.6°C	82.8°C
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7	T1	74.7°C	101.6°C																																																																																	
8	U1	61.5°C	87.5°C																																																																																	
9	Q6	70.4°C	100.3°C																																																																																	
10	D100	75.1°C	102.8°C																																																																																	
11	D101	77.3°C	105.5°C																																																																																	
12	U300	64.1°C	90.4°C																																																																																	
13	J102	72.0°C	99.3°C																																																																																	
14	C105	69.6°C	96.9°C																																																																																	
15	RT22	59.9°C	86.1°C																																																																																	
16	C312	62.8°C	88.8°C																																																																																	
17	T2	62.0°C	88.2°C																																																																																	
18	RG47	57.3°C	83.3°C																																																																																	
19	TC	57.6°C	82.8°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 55 °C NO DAMAGE	I/P : 315VAC O/P : FULL LOAD Ta=55 °C HUMIDITY= 95% R.H	TEST : OK																																																																																
4	TEMPERATURE COEFFICIENT	±0.03%/°C (0-60°C)	I/P : 230 VAC O/P : FULL LOAD	±0.0008%/°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~+55°C	1. Thermal shock Temperature : -45°C~ +60°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-150-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) 46576 HRS (2) 48139 HRS (3) 57127 HRS
9	MTBF	Conducted by Parts Stress Analysis Prediction 2316.2K hrs min. Telcordia SR-332 (Bellcore) ; 213.3K 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