



Test Report: XLG-240-L

240W Constant Power Mode 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

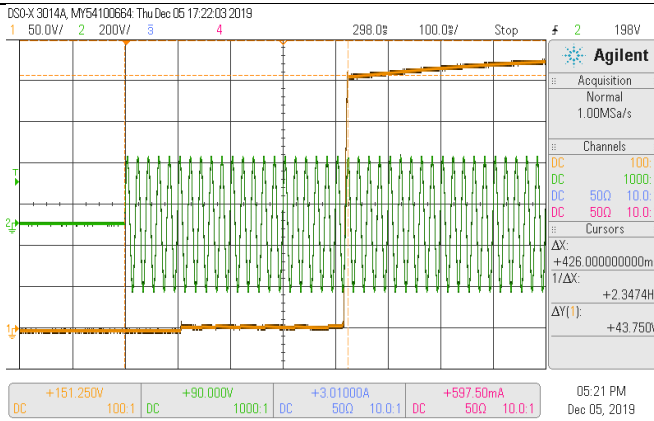
■ RELIABILITY TEST

ENVIRONMENT TEST

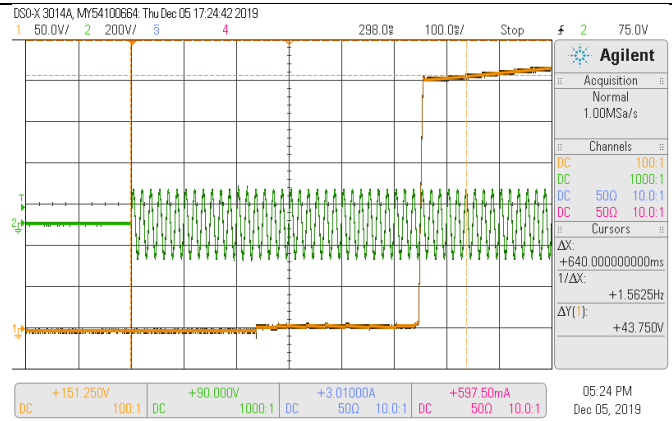
DESIGN VERIFY TEST

OUTPUT FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	CURRENT TOLERANCE	±4%	I/P:230VAC O/P:LEDmax/ LEDmin CP: 700mA & 1050mA Ta:25°C	CP700mA: 0.702A/230VAC@CV MAX-1V 0.705A/230VAC@CV MIN 0.71% CP 1050mA: 1.026A/230VAC@CV MAX-1V 1.027A/230VAC@CV MIN 2.28%
2	FULL POWER CURRENT RANGE	700~1050mA	I/P: 230VAC O/P:LEDmax CP: 700mA & 1050mA Ta:25°C	356.41V/700mA/230VAC 280.41V/1050mA/230VAC
3	CONSTANT POWER	O/P : 239.4W	I/P : 230 VAC O/P : Vo×Io	TEST : OK
4	OPEN CIRCUIT VOLTAGE (max)	370V	I/P: 230VAC O/P:NO LOAD CP: OPEN Ta:25°C	359.09V
5	CONSTANT CURRENT REGION	CP 700mA: 178V~ 342V CP 1050mA: 178V~ 228V	I/P: 230VAC O/P:LEDmax CP: 700mA & 1050mA Ta:25°C	CP 700mA: 43.6V~342 V/230VAC CP 1050mA: 44.4V~ 228V/230VAC
6	CURRENT ADJ. RANGE	350mA~1050mA	I/P: 230VAC O/P:CVmin& CVmax-1V CP: 700mA & 1050mA Ta:25°C	241.6mA~1211.6mA/230VAC@CV MAX-1V 242.0mA~1212.8mA /230VAC@CV MIN
7	CURRENT RIPPLE	5.0% max.	I/P: 230VAC O/P:LEDmax CP: 700mA & 1050mA Ta:25°C	CP 700mA: 2.7% CP 1050mA: 1.3%
8	SET UP TIME	230VAC/ 500 ms (Max) 115VAC/ 1200 ms (Max)	I/P: 230VAC I/P: 115VAC O/P:LEDmax CP 700mA Ta:25°C	230VAC/426ms 115VAC/ 640ms



INPUT=230VAC/50HZ @ LEDMAX@ CP 700mA
CH1 : Output Voltage CH2 : AC Input Voltage

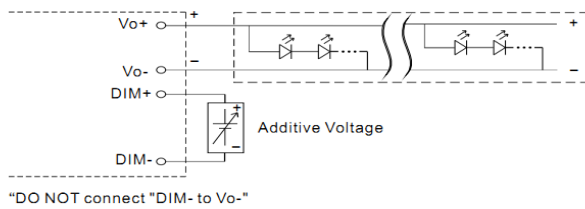


INPUT=115VAC/60HZ @ LEDMAX@ CP 700mA
CH1 : Output Voltage CH2 : AC Input Voltage

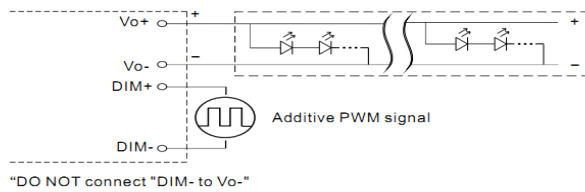
9 DIMMING OPERATION (for AB-T type)

- Output constant current level can be adjusted by applying one of the three methodologies between DIM+ and DIM-: 0 ~ 10Vdc , or 10V PWM signal or resistance.
- Direct connecting to LEDs is suggested. It is not suitable to be used with additional drivers.
- Dimming source current from power supply: 100uA (typ.)

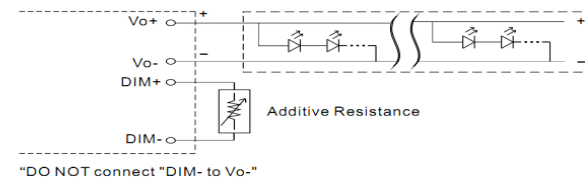
◎ Applying additive 0 ~ 10VDC



◎ Applying additive 10V PWM signal (frequency range 100Hz ~ 3KHz):



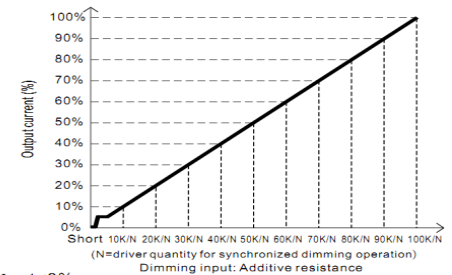
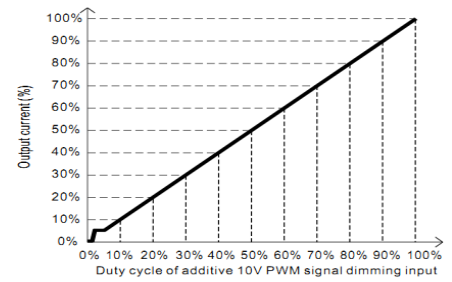
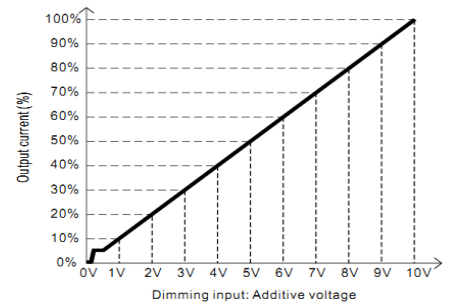
◎ Applying additive resistance:



Note : 1. Min. dimming level is about 8% and the output current is not defined when 0% < Iout < 8%.
2. The output current could drop down to 0% when dimming input is about 0kΩ or 0Vdc, or 10V PWM signal with 0% duty cycle.

I/P : 230 VAC O/P : DIMMING TEST

	V	0V	1V	2V	3V	4V	5V	6V	7V	8V	9V	10V	OPEN
1	Output Current	0.0000 0A	0.087 A	0.16 1A	0.226A	0.290A	0.367A	0.433A	0.510A	0.578A	0.648A	0.699A	0.699A
	%	0.00%	12.48 %	23.0 7%	32.23 %	41.48 %	52.39 %	61.82 %	72.91 %	82.53 %	92.51 %	99.83%	99.89%
2	PWM	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	OPEN

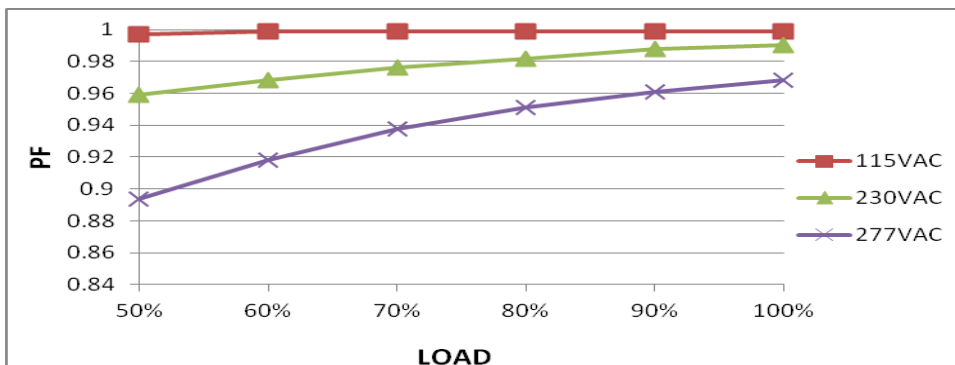


3	Output Current (100Hz)	0.0000 A	0.086 A	0.15 A	0.225A	0.289A	0.365A	0.432A	0.498A	0.573A	0.645A	0.699A	0.699A
	%	0.00%	12.34 %	21.4 0%	32.08 %	41.31 %	52.19 %	61.65 %	71.20 %	81.90 %	92.17 %	99.83%	99.89%
	R	Short	10K	20K	30K	40K	50K	60K	70K	80K	90K	100K	OPEN
	Output Current	0.0000 A	0.087 A	0.16 A	0.225A	0.289A	0.366A	0.432A	0.498A	0.571A	0.651A	0.699A	0.699A
	%	0.00%	12.37 %	22.9 2%	32.08 %	41.32 %	52.23 %	61.66 %	71.17 %	81.59 %	93.00 %	99.84%	99.89%
TEST RESULT : OK													

INPUT FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	INPUT VOLTAGE RANGE	100VAC~305 VAC	I/P:TESTING O/P:LEDmax CP 700mA Ta:25°C	84V~305 V
			I/P: LOW-LINE-3V=97V HIGH-LINE+10V=315 V O/P: LEDmax / LEDmin CP 700mA (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 700mA Ta:25°C	TEST: OK
3	INPUT CURRENT (TYP)	277VAC/ 1.1A 230VAC/ 1.3 A 115VAC/ 2.7A	I/P: 277VAC /230VAC/115VAC O/P:LEDmax CP 700mA Ta:25°C	I=0.956A/ 277VAC I=1.134A/ 230VAC I=2.309A/115VAC
4	POWER FACTOR(TYP)	0.92/277 VAC LEDMAX 0.95/230 VAC LEDMAX 0.97/115 VAC LEDMAX	I/P: 277VAC/230VAC/115VAC O/P:LEDmax CP 700mA Ta:25°C	PF= 0.968/277V/100%LOAD PF=0.99/230V/100%LOAD PF=0.999/115V/100%LOAD

P.F vs LOAD



5	EFFICIENCY (TYP)	93%	I/P: 230VAC O/P: LEDmax CP 700mA Ta: 25°C	93.33%																												
<p>EFFICIENCY vs LOAD</p> <table border="1"> <caption>Efficiency vs Load Data</caption> <thead> <tr> <th>Load (%)</th> <th>115VAC (%)</th> <th>230VAC (%)</th> <th>277VAC (%)</th> </tr> </thead> <tbody> <tr><td>50%</td><td>89.5</td><td>91.5</td><td>91.5</td></tr> <tr><td>60%</td><td>90.5</td><td>92.5</td><td>93.0</td></tr> <tr><td>70%</td><td>91.5</td><td>93.5</td><td>93.5</td></tr> <tr><td>80%</td><td>92.0</td><td>94.0</td><td>94.0</td></tr> <tr><td>90%</td><td>91.5</td><td>93.5</td><td>93.5</td></tr> <tr><td>100%</td><td>91.0</td><td>93.0</td><td>93.0</td></tr> </tbody> </table>					Load (%)	115VAC (%)	230VAC (%)	277VAC (%)	50%	89.5	91.5	91.5	60%	90.5	92.5	93.0	70%	91.5	93.5	93.5	80%	92.0	94.0	94.0	90%	91.5	93.5	93.5	100%	91.0	93.0	93.0
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6	INRUSH CURRENT (TYP)	230V/ 85A COLD START (twidth=500 us measured at 50% Ipeak) COLD START	I/P: 230VAC O/P: LEDmax CP 700mA Ta: 25°C	I = 73A / 230VAC T50 = 335 μ S																												
<p>INPUT=230VAC/ 50HZ @ LEDMAX CH2 : AC Input Voltage CH1 : Input current</p> <table border="1"> <caption>Inrush Current Measurement Data</caption> <thead> <tr> <th>Parameter</th> <th>Value</th> </tr> </thead> <tbody> <tr><td>Peak Current (I_{peak})</td><td>47.8 A</td></tr> <tr><td>Average Current (I_{avg})</td><td>10.1 A</td></tr> <tr><td>Current Rise Time (t_{width})</td><td>336 μs</td></tr> <tr><td>Ch2 Max Voltage</td><td>310 V</td></tr> <tr><td>Ch1 Max Current</td><td>73.0 A</td></tr> </tbody> </table>					Parameter	Value	Peak Current (I _{peak})	47.8 A	Average Current (I _{avg})	10.1 A	Current Rise Time (t _{width})	336 μ s	Ch2 Max Voltage	310 V	Ch1 Max Current	73.0 A																
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7	TOTAL HARMONIC DISTORTION	THD < 10% @ load, \geq 50% at 230VAC/115VAC, load, \geq 75% at 277VAC	I/P : 277VAC I/P : 230VAC I/P : 115VAC O/P : 50%/75% LOAD CP 700mA Ta : 25°C	THD : 7.74 % 277V 75% THD : 7.07 % 230V 50% THD : 3.29 % 115V 50%																												
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8	LEAKAGE CURRENT	<0.75mA / 277VAC	I/P : 277 VAC O/P : NO LOAD Ta : 25°C	L-FG : 0.19 mA N-FG : 0.18 mA
9	STANDBY POWER CONSUMPTION	STANDBY POWER CONSUMPTION <0.5W for AB –Type(Dimming Off)	I/P : 230 VAC O/P : STANDBY(AB) Ta : 25°C	0.419W/AB

ROTECTION FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	OVER VOLTAGE PROTECTION	V1: 380V~450V	I/P: 305VAC I/P: 230VAC I/P: 100VAC CP 700mA O/P:MIN LOAD Ta:25°C	430V / 305VAC 430V/ 230VAC 430V/ 100VAC PROTECTION TYPE : Shut down output voltage, re-power on to recovery
2	OVER TEMPERATURE PROTECTION	NO DAMAGE	I/P: 305VAC I/P: 100VAC O/P:LEDmax CP 700mA Ta:25°C	O.T.P.Active PROTECTION TYPE : Shut down output voltage, re-power on to recovery
3	SHORT PROTECTION	SHORT EVERY OUTPUT 1 HOUR NO DAMAGE	I/P: 305VAC I/P: 100VAC O/P: LEDMAX CP: 700mA & 1050mA Ta:25°C	NO DAMAGE PROTECTION TYPE : Hiccup mode or constant current limiting, recovers automatically after fault condition is removed
4	INPUT OVER VOLTAGE (for XLG-240I only)	320 ~ 390VAC (Shut down output voltage when the input voltage exceeds protection voltage Can survive input voltage stress of 440Vac for 48 hours	I/P : TESTING O/P: FULL LOAD Ta:25°C	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: 12A /600V	I/P:High-Line +3V =308V I/P:Low-Line -3V = 97V AC ON/OFF CP: 700mA&1050mA VDS: O/P: (1)LEDmax (2) LEDmin (3) Output Short (4)LED min dimming on/off	308V CP: 700mA CP: 1050mA VDS: VDS: (1) 453V (1) 449V (2) 433V (2) 425V (3) 469V (3) 457V (4) 449V (4) 441V 97V CP: 700mA CP: 1050mA VDS: VDS:

			Ta:25°C	(1) 429V (2) 453V (3) 461V (4) 457V	(1) 461V (2) 445V (3) 473V (4) 461V
2	P.F.C Transistor (D to S) or (C to E) Peak Voltage	Q1 Rated: 26A/600V	I/P:High-Line +3V =308V I/P:Low-Line -3V = 97V AC ON/OFF CP: 700mA VDS: O/P: (1)LEDmax (2) LEDmin (3) Output Short (4)LED min dimming on/off Ta:25°C	308V CP: 700mA VDS: (1) 445V (2) 449V (3) 453V (4) 445V 97V CP: 700mA VDS: (1) 534V (2) 526V (3) 481V (4) 542V	
3	P.F.C DIODE	D5 Rated: 8A/600V	I/P:High-Line +3V =308V AC ON/OFF CP: 700mA VDS: O/P: (1)LEDmax (2) LEDmin (3) Output Short (4)LED min dimming on/off	(1)441V (2)449V (3)453 V (4)441V	
4	Diode Peak Voltage	D100 Rated: 8A/600V	I/P:High-Line +3V =308V AC ON/OFF CP: 700mA&1050mA VDS: O/P: (1)LEDmax (2) Output Short (3) burst mode Ta:25°C	CP: 700mA VDS: (1) 309V (2) 4.29V (3) 385V	
5	Input Capacitor Voltage	C5 Rated: : 120 μ /450 V	I/P:High-Line +3V =308V AC ON/OFF CP: 700mA VDS: O/P: (1)LEDmax (2) LEDmin Ta:25°C	(1) 433V (2) 425V	
6	Control IC Voltage Test	PWM IC U2 Rated 30V	I/P:High-Line +3V =308V AC ON/OFF CP: 700mA VDS: O/P: (1)LEDmax (2) LEDmin (3) Output Short (4)NO LOAD VRmin.LOW LINE (5)OVP Ta:25°C	U2 (1) 25.8V (2) 25.6V (3) 25.6V (4) 13.6V (5) 25.6V	

SAFETY & EMC TEST

SAFETY TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	WITHSTAND VOLTAGE	EN61230-1 I/P-O/P: 3.75KVAC/min I/P-FG: 2 KVAC/min<4.5mA 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: 3.49mA I/P-FG: 2.83mA O/P-FG: 4.16mA 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: 13.4GΩ I/P-FG: 8.73G Ω O/P-FG: 16.5G Ω NO DAMAGE
3	GROUNDING CONTINUITY	EN61230-1 FG(PE) TO CHASSIS OR TRACE < 100 mΩ	40A / 2min Ta:25°C	24mΩ

E.M.C TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	HARMONIC	EN61000-3-2 CLASS C	I/P : 230VAC/50HZ O/P : FULL/50% LOAD Ta : 25°C	PASS
2	CONDUCTION	EN55015	I/P : 230 VAC/50HZ O/P : FULL LOAD Ta : 25°C	PASS Test by certified Lab
3	RADIATION	EN55015	I/P : 230 VAC/50HZ O/P : FULL LOAD 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	PASS
5	E.F.T	EN61000-4-4 LIGHT INDUSTRY INPUT : 2KV	I/P : 230VAC/50HZ O/P : FULL LOAD Ta : 25°C	PASS
6	SURGE	EN61000-4-5 LIGHT INDUSTRY L-N : 4KV L-PE : 6KV	I/P : 230VAC/50HZ O/P : FULL LOAD Ta : 25°C	PASS
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-A 1. ROOM AMBIENT BURN-IN : 2 HRS I/P : 230VAC O/P : FULL LOAD Ta= 25.0°C 2. HIGH AMBIENT BURN-IN : 2 HRS I/P : 230VAC O/P : FULL LOAD Ta=50.0°C																																																																																						
				<table border="1"> <thead> <tr> <th>NO</th> <th>Position</th> <th>ROOM AMBIENT Ta= 25.0 °C</th> <th>HIGH AMBIENT Ta=50.0 °C</th> </tr> </thead> <tbody> <tr><td>1</td><td>BD1</td><td>67.3°C</td><td>85.7°C</td></tr> <tr><td>2</td><td>ZNR1</td><td>63.1°C</td><td>81.4°C</td></tr> <tr><td>3</td><td>LF2</td><td>66.1°C</td><td>84.2°C</td></tr> <tr><td>4</td><td>Q1</td><td>72.8°C</td><td>91.7°C</td></tr> <tr><td>5</td><td>C5</td><td>70.5°C</td><td>88.8°C</td></tr> <tr><td>6</td><td>T1(wire)</td><td>82.4°C</td><td>100.5°C</td></tr> <tr><td>7</td><td>T1(core)</td><td>64.0°C</td><td>113.2°C</td></tr> <tr><td>8</td><td>L2</td><td>68.0°C</td><td>94.2°C</td></tr> <tr><td>9</td><td>C22</td><td>72.4°C</td><td>96.3°C</td></tr> <tr><td>10</td><td>C105</td><td>65.8°C</td><td>88.2°C</td></tr> <tr><td>11</td><td>C106</td><td>67.6°C</td><td>88.9°C</td></tr> <tr><td>12</td><td>D101</td><td>71.3°C</td><td>92.8°C</td></tr> <tr><td>13</td><td>D103</td><td>71.8°C</td><td>93.1°C</td></tr> <tr><td>14</td><td>U2</td><td>70.5°C</td><td>90.9°C</td></tr> <tr><td>15</td><td>R7</td><td>71.2°C</td><td>91.0°C</td></tr> <tr><td>16</td><td>Q3</td><td>77.0°C</td><td>98.5°C</td></tr> <tr><td>17</td><td>C123</td><td>68.4°C</td><td>87.7°C</td></tr> <tr><td>18</td><td>Q2</td><td>74.7°C</td><td>95.9°C</td></tr> <tr><td>19</td><td>RTH3</td><td>71.1°C</td><td>90.4°C</td></tr> <tr><td>20</td><td>TC</td><td>62.2°C</td><td>81.6°C</td></tr> </tbody> </table>	NO	Position	ROOM AMBIENT Ta= 25.0 °C	HIGH AMBIENT Ta=50.0 °C	1	BD1	67.3°C	85.7°C	2	ZNR1	63.1°C	81.4°C	3	LF2	66.1°C	84.2°C	4	Q1	72.8°C	91.7°C	5	C5	70.5°C	88.8°C	6	T1(wire)	82.4°C	100.5°C	7	T1(core)	64.0°C	113.2°C	8	L2	68.0°C	94.2°C	9	C22	72.4°C	96.3°C	10	C105	65.8°C	88.2°C	11	C106	67.6°C	88.9°C	12	D101	71.3°C	92.8°C	13	D103	71.8°C	93.1°C	14	U2	70.5°C	90.9°C	15	R7	71.2°C	91.0°C	16	Q3	77.0°C	98.5°C	17	C123	68.4°C	87.7°C	18	Q2	74.7°C	95.9°C	19	RTH3	71.1°C	90.4°C	20	TC	62.2°C	81.6°C
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8	L2	68.0°C	94.2°C																																																																																					
9	C22	72.4°C	96.3°C																																																																																					
10	C105	65.8°C	88.2°C																																																																																					
11	C106	67.6°C	88.9°C																																																																																					
12	D101	71.3°C	92.8°C																																																																																					
13	D103	71.8°C	93.1°C																																																																																					
14	U2	70.5°C	90.9°C																																																																																					
15	R7	71.2°C	91.0°C																																																																																					
16	Q3	77.0°C	98.5°C																																																																																					
17	C123	68.4°C	87.7°C																																																																																					
18	Q2	74.7°C	95.9°C																																																																																					
19	RTH3	71.1°C	90.4°C																																																																																					
20	TC	62.2°C	81.6°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 : 305VAC O/P : FULL LOAD Ta=50 °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 : -50°C~ +125°C 2. Temperature change rate : 25°C / MIN 3. Dwell time low and high temperature : 30 MIN/EACH 4. Total test cycle : 200CYCLE 5. Input/Output condition : 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-240-L-A : SUPPOSE C106 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) 109167 HRS (2) 116947 HRS (3) 123905 HRS
9	MTBF	Conducted by Parts Stress Analysis Prediction 2496.2K hrs min. Telcordia SR-332 (Bellcore) ; 219.8K 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/ZHOUB	WENF	LIUWY