



Test Report: XLG-200-H

200W 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

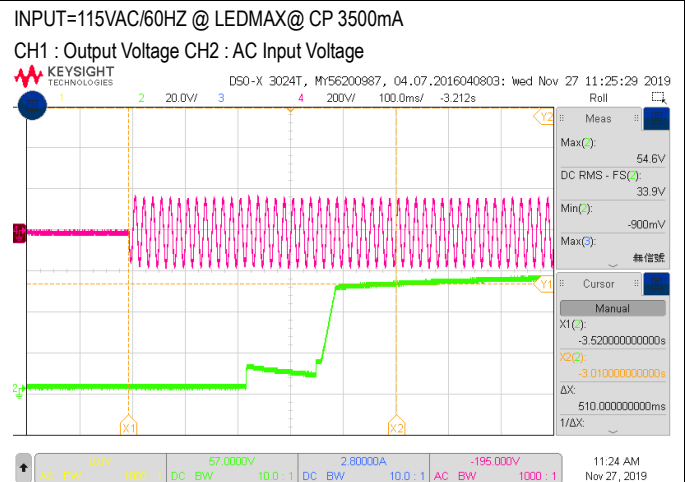
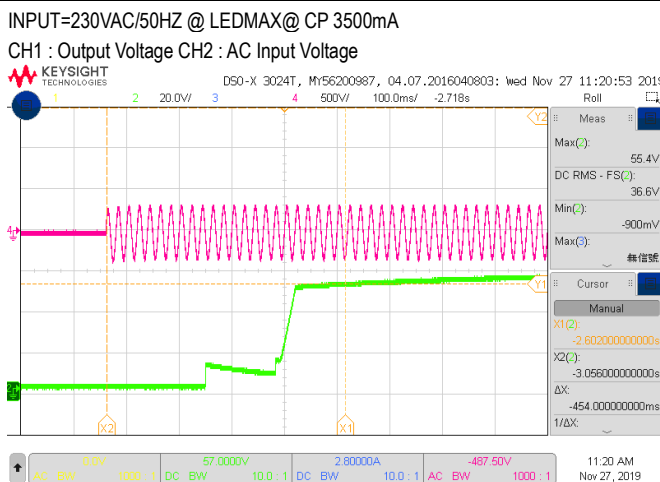
■ RELIABILITY TEST

ENVIRONMENT TEST

DESIGN VERIFY TEST

OUTPUT FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	CURRENT TOLERANCE	±5%	I/P:230VAC O/P:LEDmax/ LEDmin CP: 3500mA & 5550mA Ta:25°C	CP3500mA: 3.58A/230VAC@CV MAX-1V 3.584A/230VAC@CV MIN 0.12% CP 5550mA: 5.5A/230VAC@CV MAX-1V 5.5A/230VAC@CV MIN 0%
2	FULL POWER CURRENT RANGE	3500~5550mA	I/P: 230VAC O/P:LEDmax CP: 3500mA & 5550mA Ta:25°C	56V/3500mA/230VAC 36V/5550mA/230VAC
3	CONSTANT POWER	O/P : 200W	I/P : 230 VAC O/P : Vo×Io	TEST : OK
4	OPEN CIRCUIT VOLTAGE (max)	60V	I/P: 230VAC O/P:NO LOAD CP: OPEN Ta:25°C	58.6V
5	CONSTANT CURRENT REGION	CP 3500mA: 27V~ 56V CP 5550mA: 27V~ 36V	I/P: 230VAC O/P:LEDmax CP: 3500mA & 5550mA Ta:25°C	CP 3500mA: 27V~56 V/230VAC CP 5550mA: 27V~36 V/230VAC
6	CURRENT ADJ. RANGE	1750mA~5550mA	I/P: 230VAC O/P:CVmin& CVmax-1V CP: 3500mA & 5550mA Ta:25°C	1275mA~6360mA/230VAC@CV MAX-1V 1277mA~6349mA /230VAC@CV MIN
7	CURRENT RIPPLE	3.0% max.	I/P: 230VAC O/P:LEDmax CP: 3500mA & 5550mA Ta:25°C	CP 3500mA: 2.27% CP 5550mA: 1.48%
8	SET UP TIME	230VAC/ 500 ms 115VAC/ 1200 ms	I/P: 230VAC I/P: 115VAC O/P:LEDmax CP 3500mA Ta:25°C	230VAC/454ms 115VAC/ 510ms

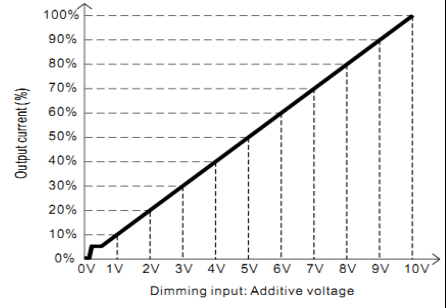
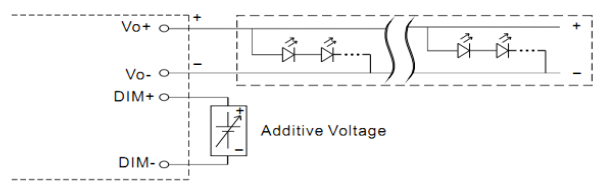


9 DIMMING OPERATION (for AB-Type)

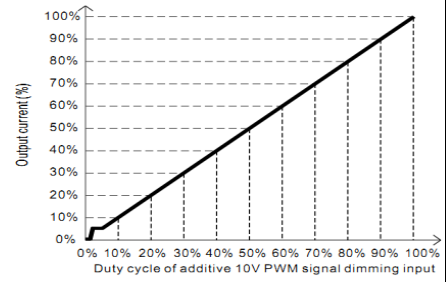
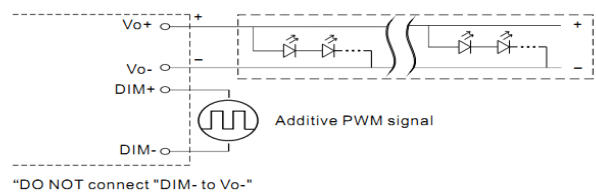
Output constant current level can be adjusted by applying one of the three methodologies between DIM+ and DIM-:
 0 ~ 10Vdc , or 10V PWM signal or resistance.

- Direct connecting to LEDs is suggested. It is not suitable to be used with additional drivers.
- Dimming source current from power supply: 100uA (typ.)

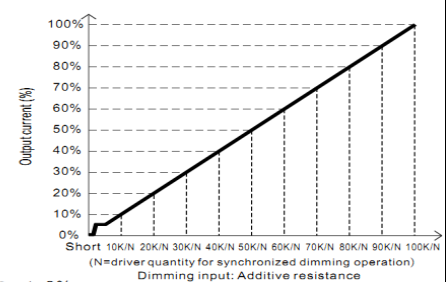
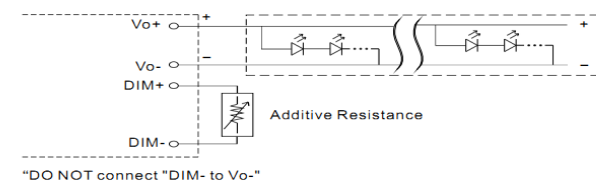
Ⓒ Applying additive 0 ~ 10VDC



Ⓒ 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% < I_{out} < 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

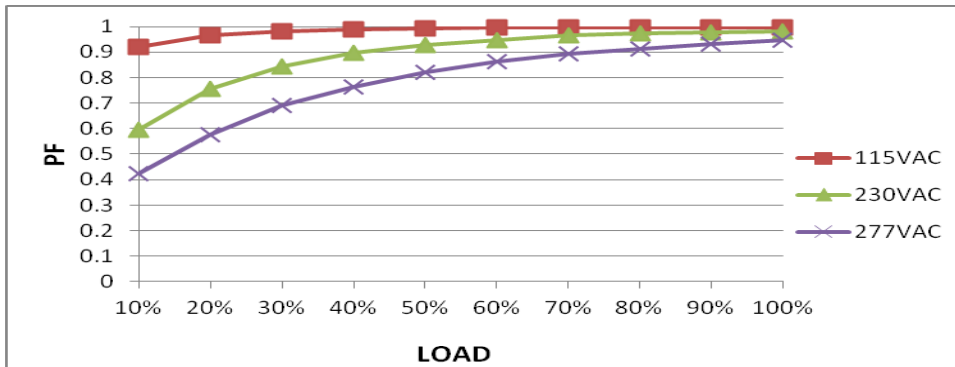
1	V	SHORT	10K	20K	30K	40K	50K	60K	70K	80K	90K	100K	OPEN
	Output Current	0.0000 0A	0.425 A	0.75 1A	1.133A	1.463A	1.800A	2.137A	2.538A	2.882A	3.226A	3.578A	3.578A
%	0.00%	12.14 %	21.4 6%	32.37 %	41.80 %	51.43 %	61.06 %	72.51 %	82.34 %	92.17 %	102.23 %	102.23 %	
2	PWM	0V	1V	2V	3V	4V	5V	6V	7V	8V	9V	10V	OPEN
	Output Current (100Hz)	0.0000 0A	0.410 A	0.72 5A	1.095A	1.436A	1.819A	2.151A	2.540A	2.850A	3.221A	3.513A	3.514A
	%	0.00%	11.71 %	20.7 1%	31.29 %	41.03 %	51.97 %	61.46 %	72.57 %	81.43 %	92.03 %	100.37 %	100.40 %
3	R	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	OPEN
	Output Current	0.0000 0A	0.422 A	0.74 7A	1.130A	1.460A	1.793A	2.200A	2.545A	2.920A	3.301A	3.597A	3.597A
	%	0.00%	12.06 %	21.3 4%	32.29 %	41.71 %	51.23 %	62.86 %	72.71 %	83.43 %	94.31 %	102.77 %	102.77 %

TEST RESULT : OK

INPUT FUNCTION TEST

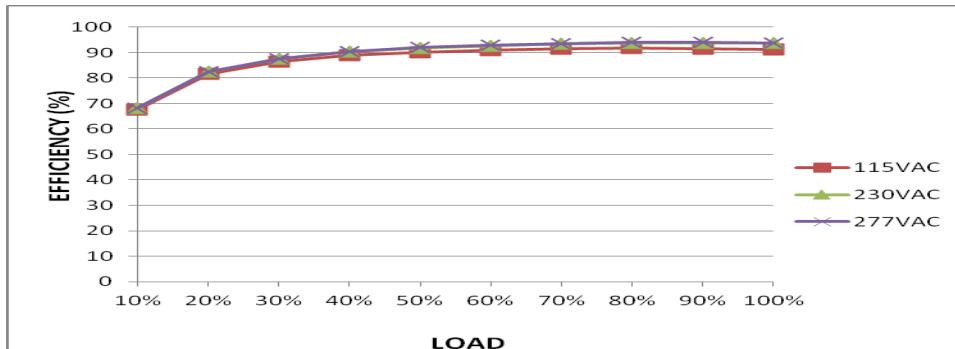
NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	INPUT VOLTAGE RANGE	100VAC~305 VAC	I/P:TESTING O/P:LEDmax CP 3500mA Ta:25°C	71V~305 V
			I/P: LOW-LINE-3V=97V HIGH-LINE+10V=315 V O/P: LEDmax / LEDmin CP 3500mA (PLEASE CHECK DERATING CURVE) ON: 30 Sec OFF: 30 Sec 10MIN (POWER ON/OFF NO DAMAGE)	(1).TEST:ok (2).TEST :ok
2	INPUT FREQUENCY RANGE	47HZ ~63 HZ NO DAMAGE	I/P: 100VAC ~305VAC O/P: LEDmax ~ LEDmin CP 3500mA Ta:25°C	TEST:ok
3	INPUT CURRENT (TYP)	277VAC/ 0.9A 230VAC/ 1.1 A 115VAC/ 2.2A	I/P: 277VAC /230VAC/115VAC O/P:LEDmax CP 3500mA Ta:25°C	I =0.8A/ 277VAC I =0.948A/ 230VAC I =1.92A/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 3500mA Ta:25°C	PF=0.947 /277V/100%LOAD PF=0.982/230V/100%LOAD PF=0.998/115V/100%LOAD

P.F vs LOAD



5	EFFICIENCY (TYP)	93%	I/P: 230VAC O/P:LEDmax CP 3500mA Ta:25°C	93.65%
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EFFICIENCY vs LOAD



6	INRUSH CURRENT (TYP)	230V/ 65A COLD START (twidh=550 usmeasured at 50% Ipeak) COLD START	I/P: 230VAC O/P:LEDmax CP 3500mA Ta:25°C	I =53.5A /230VAC T50= 400 μ S																																												
<p>INPUT=230VAC/ 50HZ @ LEDMAX CH2 : AC Input Voltage CH1 : Input current</p>																																																
7	TOTAL HARMONIC DISTORTION	THD<10%@load,≥ 50% at 230VAC/115VAC, load,≥ 75% at 277VAC	I/P : 277VAC I/P : 230VAC I/P : 115VAC O/P : 50%/75% LOAD CP 3500mA Ta : 25°C	THD : 4.60 %277V 75% THD : 5.58 %230V 50% THD : 5.3 %115V 50%																																												
<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>10%</td><td>8.5</td><td>15.0</td><td>8.5</td></tr> <tr><td>20%</td><td>7.5</td><td>10.0</td><td>7.5</td></tr> <tr><td>30%</td><td>6.5</td><td>8.0</td><td>6.5</td></tr> <tr><td>40%</td><td>4.5</td><td>6.5</td><td>4.5</td></tr> <tr><td>50%</td><td>5.5</td><td>5.5</td><td>5.5</td></tr> <tr><td>60%</td><td>5.0</td><td>4.5</td><td>5.0</td></tr> <tr><td>70%</td><td>4.8</td><td>3.5</td><td>4.8</td></tr> <tr><td>80%</td><td>4.5</td><td>3.0</td><td>4.5</td></tr> <tr><td>90%</td><td>4.5</td><td>2.8</td><td>4.5</td></tr> <tr><td>100%</td><td>4.5</td><td>2.5</td><td>4.5</td></tr> </tbody> </table>					LOAD (%)	115VAC THD (%)	230VAC THD (%)	277VAC THD (%)	10%	8.5	15.0	8.5	20%	7.5	10.0	7.5	30%	6.5	8.0	6.5	40%	4.5	6.5	4.5	50%	5.5	5.5	5.5	60%	5.0	4.5	5.0	70%	4.8	3.5	4.8	80%	4.5	3.0	4.5	90%	4.5	2.8	4.5	100%	4.5	2.5	4.5
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8	LEAKAGE CURRENT	<0.75mA / 277VAC	I/P : 277 VAC O/P : NO LOAD Ta : 25°C	L-FG : 0.22mA N-FG : 0.22mA																																												
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	0.38W/AB																																												

PROTECTION FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	OVER VOLTAGE PROTECTION	61V~85V	I/P: 305VAC I/P: 230VAC I/P: 100VAC CP 3500mA O/P:MIN LOAD Ta:25°C	67.25V / 305VAC 67.33V/ 230VAC 67.35V/ 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 3500mA 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: 3500mA &5550mA 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-200I 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: 11A/650V	I/P:High-Line +3V =308V I/P:Low-Line -3V = 97V AC ON/OFF CP: 3500mA&5550mA VDS: O/P: (1)LEDmax (2) LEDmin (3) Output Short (4)LED min dimming on/off Ta:25°C	308V 97V CP: 3500mA/56V CP: 5550mA/36V VDS: (1) 486V (2) 494V (3) 518V (4) 494V CP: 3500mA/56V CP: 5550mA/36V VDS: (1) 502V (2) 518V (3) 518V (4) 510V
2	P.F.C DIODE	D1 Rated: 600V/9A	I/P:High-Line +3V =308V AC ON/OFF CP: 3500mA O/P: (1)LEDmax (2) LEDmin (3) Output Short (4)LED min dimming on/off	CP: 3500mA (1) 458V (2) 450V (3) 454V (4)446V

3	Diode Peak Voltage	D100 Rated: 15A/150V	I/P:High-Line +3V =308V AC ON/OFF CP: 3500mA O/P: (1)LEDmax (2) Output Short (3) burst mode Ta:25°C	CP: 3500mA/56V (1)126V (2)87V (3)126V
4	Control IC Voltage Test	PWM IC U2 Rated 30V	I/P:High-Line +3V =308V AC ON/OFF CP: 3500mA O/P: (1)LEDmax (2) LEDmin (3) Output Short (4)NO LOAD VRmin.LOW LINE (5)OVP Ta:25°C	CP: 3500mA U2 (1) 25.8V (2) 25.6V (3) 25.6V (4) 15.8V (5) 13.1V
5	PFC Transistor	Q1 Rated 20A/600V	I/P : High-Line +3V =308V CP: 3500mA O/P : (1) Full Load Turn on (2) Output Short (3) Full load continue Ta : 25°C	CP: 3500mA (1) 474V (2) 494V (3) 466V
6	Input Capacitor Voltage	C5 Rated : 100 μ F / 450V	I/P : High-Line +3V =308 V CP: 3500mA O/P: (1)Full Load input on/off (2) Min load input on /Off (3)Full Load /Min load Change (4)Full load continue Ta : 25°C	CP: 3500mA (1) 457V (2) 450V (3) 458V (4) 446V

SAFETY & EMC TEST

SAFETY TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	WITHSTAND VOLTAGE	I/P-O/P : 3.75KVAC/min I/P-FG : 2KVAC/min O/P-FG : 1.5KVAC/min	I/P-O/P : 4.125 KVAC/min I/P-FG : 2.4 KVAC/min O/P-FG : 1.8 KVAC/min Ta : 25°C	I/P-O/P : 2.364mA I/P-FG : 2.034mA O/P-FG : 2.34mA NO DAMAGE
2	ISOLATION RESISTANCE	I/P-O/P : 500VDC>100M Ω I/P-FG : 500VDC>100M Ω O/P-FG : 500VDC>100M Ω	I/P-O/P : 500 VDC I/P-FG : 500 VDC O/P-FG : 500 VDC Ta : 25°C	I/P-O/P : >9999M Ω I/P-FG : >9999 M Ω O/P-FG : >9999M Ω NO DAMAGE
3	GROUNDING CONTINUITY	FG(PE) TO CHASSIS OR TRACE < 100 m Ω	40A / 2min Ta:25°C	16m Ω

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	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 A
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-H 1. ROOM AMBIENT BURN-IN : 2 HRS I/P : 230VAC O/P : FULL LOAD Ta=28.4°C 2. HIGH AMBIENT BURN-IN : 2 HRS I/P : 230VAC O/P : FULL LOAD Ta=53°C																																																																																																																		
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14	L2	67.4°C	91.8°C																																																																																																																	
15	C51	68.8°C	95.4°C																																																																																																																	
16	C15	67.3°C	93.4°C																																																																																																																	
17	T1	74.5°C	103.0°C																																																																																																																	
18	D102	69.3°C	94.8°C																																																																																																																	
19	D100	68.9°C	94.3°C																																																																																																																	
20	D103	70.9°C	96.6°C																																																																																																																	
21	D101	69.9°C	96.0°C																																																																																																																	
22	C200	63.4°C	89.5°C																																																																																																																	
23	C106	65.0°C	91.3°C																																																																																																																	
24	C108	60.4°C	86.1°C																																																																																																																	
25	LF100	60.1°C	85.8°C																																																																																																																	
26	RTH3	65.0°C	89.5°C																																																																																																																	
27	TC	57.4°C	82.5°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	±0.004%/°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-200-H : 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) 57734 HRS (2) 72184 HRS (3) 76836 HRS
9	MTBF	Conducted by Parts Stress Analysis Prediction 2300.1K hrs min. Telcordia SR-332 (Bellcore) ; 200.7K 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