



# Test Report: XLG-200-L

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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

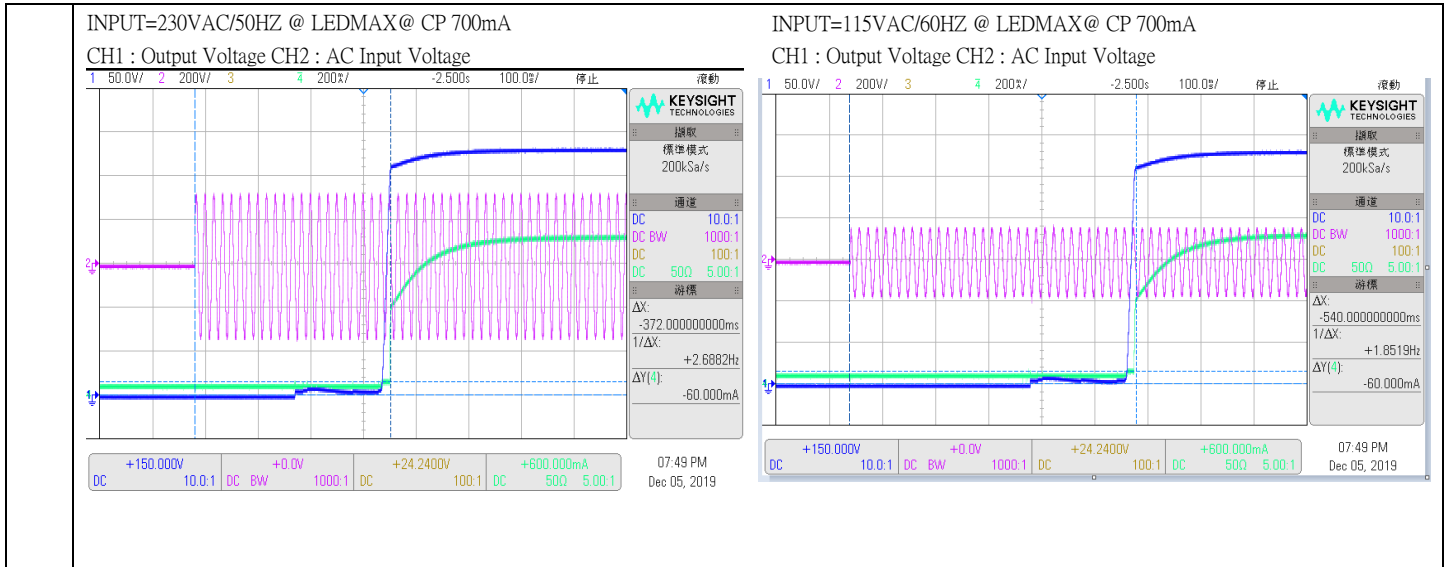
## ■ RELIABILITY TEST

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: 700mA & 1050mA Ta:25°C	CP700mA: 0.694A/230VAC@CV MAX-1V 0.695A/230VAC@CV MIN 0.15% CP 1050mA: 1.066A/230VAC@CV MAX-1V 1.067A/230VAC@CV MIN 0.1%
2	FULL POWER CURRENT RANGE	700~1050mA	I/P: 230VAC O/P:LEDmax CP: 700mA & 1050mA Ta:25°C	285V/700mA/230VAC 190V/1050mA/230VAC
3	CONSTANT POWER	O/P : 200W	I/P : 230 VAC O/P : Vo×Io	TEST : OK
4	OPEN CIRCUIT VOLTAGE (max)	300V	I/P: 230VAC O/P:NO LOAD CP: OPEN Ta:25°C	295V
5	CONSTANT CURRENT REGION	CP 700mA: 142V~ 285V  CP 1050mA: 142V~ 190V	I/P: 230VAC O/P:LEDmax CP: 700mA & 1050mA Ta:25°C	CP 700mA: 142V~285 V/230VAC  CP 1050mA: 142V~190 V/230VAC
6	CURRENT ADJ. RANGE	350mA~1050mA	I/P: 230VAC O/P:CVmin& CVmax-1V CP: 700mA & 1050mA Ta:25°C	250mA~1213mA/230VAC@CV MAX-1V 251mA~1214mA /230VAC@CV MIN
7	CURRENT RIPPLE	3.0% max.	I/P: 230VAC O/P:LEDmax CP: 700mA & 1050mA Ta:25°C	CP 700mA: 2.31%  CP 1050mA: 1.9%
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/372ms 115VAC/540 ms



9 DIM 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

“DO NOT connect “DIM- to Vo-”

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

“DO NOT connect “DIM- to Vo-”

- ◎ Applying additive resistance:

“DO NOT connect “DIM- to Vo-”

**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**

	SHORT	10K	20K	30K	40K	50K	60K	70K	80K	90K	100K	OPEN	SHORT
1	0.00000A	0.088A	0.152A	0.217A	0.292A	0.357A	0.423A	0.490A	0.559A	0.637A	0.706A	0.706A	0.00000A
	0.00%	12.57%	21.71%	30.9%	41.71%	51.00%	60.43%	70.00%	79.86%	91.00%	100.86%	100.86%	0.00%
2	0V	1V	2V	3V	4V	5V	6V	7V	8V	9V	10V	OPEN	0V



5	EFFICIENCY (TYP)	94%	I/P: 230VAC O/P: LEDmax CP 700mA Ta: 25°C	94.35%																																												
<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>10</td><td>70</td><td>70</td><td>70</td></tr> <tr><td>20</td><td>85</td><td>85</td><td>85</td></tr> <tr><td>30</td><td>90</td><td>90</td><td>90</td></tr> <tr><td>40</td><td>92</td><td>92</td><td>92</td></tr> <tr><td>50</td><td>93</td><td>93</td><td>93</td></tr> <tr><td>60</td><td>93.5</td><td>93.5</td><td>93.5</td></tr> <tr><td>70</td><td>93.5</td><td>93.5</td><td>93.5</td></tr> <tr><td>80</td><td>93.5</td><td>93.5</td><td>93.5</td></tr> <tr><td>90</td><td>93.5</td><td>93.5</td><td>93.5</td></tr> <tr><td>100</td><td>94</td><td>94</td><td>94</td></tr> </tbody> </table>					LOAD (%)	115VAC (%)	230VAC (%)	277VAC (%)	10	70	70	70	20	85	85	85	30	90	90	90	40	92	92	92	50	93	93	93	60	93.5	93.5	93.5	70	93.5	93.5	93.5	80	93.5	93.5	93.5	90	93.5	93.5	93.5	100	94	94	94
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100	94	94	94																																													
6	INRUSH CURRENT (TYP)	230V/ 65A COLD START  (twid=550 us measured at 50% Ipeak) COLD START	I/P: 230VAC O/P: LEDmax CP 700mA Ta: 25°C	I = 53.5A /230VAC  T50 = 400 μS																																												
<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>Ch1 Max (Ipeak)</td><td>53.5 A</td></tr> <tr><td>Ch2 Max (Voltage)</td><td>308 V</td></tr> <tr><td>Δ (Current Rise)</td><td>2.88 A</td></tr> <tr><td>⊙ (Current Rise)</td><td>29.8 A</td></tr> <tr><td>Δ (Voltage Rise)</td><td>400 μs</td></tr> <tr><td>⊙ (Voltage Rise)</td><td>16.0 μs</td></tr> </tbody> </table>					Parameter	Value	Ch1 Max (Ipeak)	53.5 A	Ch2 Max (Voltage)	308 V	Δ (Current Rise)	2.88 A	⊙ (Current Rise)	29.8 A	Δ (Voltage Rise)	400 μs	⊙ (Voltage Rise)	16.0 μs																														
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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 700mA Ta : 25°C	THD : 5.03 %277V 75% THD : 5.65 %230V 50% THD : 5.81 %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 : 0.2 mA N-FG : 0.2 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	0.36W/AB

### ROTECTION FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	OVER VOLTAGE PROTECTION	301V~360V	I/P: 305VAC I/P: 230VAC I/P: 100VAC CP 700mA  O/P:MIN LOAD Ta:25°C	334.42V / 305VAC 334.41V/ 230VAC 334.32V/ 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-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

### VCOMPONENT STRESS TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	PWM Transistor ( D to S) or (C to E) <b>Peak Voltage</b>	Q3 Rated: 11A /650V	I/P:High-Line +3V =308V I/P:Low-Line -3V = 107V  AC ON/OFF <b>CP: 700mA&amp;1050mA</b> VDS: O/P: (1)LEDmax (2) LEDmin (3) Output Short (4)LED min dimming on/off  Ta:25°C	308V <b>CP: 700Ma 285V CP: 1050Ma 190V</b> VDS: (1) 510V (1) 477V (2) 485V (2) 485V (3) 509V (3) 501V (4) 485V (4) 485V  <b>CP: 700Ma 142 CP: 1050Ma 142V</b> VDS: (1) 493V /2.66A (1) 493V /2.18A 13.5V/ns 14.5V/ns (2) 501V /2.1A (2) 509V /2.18A

				(3) 501V /4.59A 29.1V/ns (4) 501V /2.02A	(3) 509V /4.59A 26.2V/ns (4) 501V /2.02A
2	P.F.C Transistor ( D to S) or (C to E) <b>Peak Voltage</b>	Q1 Rated: 20A/600V	I/P:High-Line +3V =308V I/P:Low-Line -3V = 107V  AC ON/OFF <b>CP: 700mA</b> VDS: O/P: (1)LEDmax (2) LEDmin (3) Output Short (4)LED min dimming on/off  Ta:25°C	308V <b>CP: 700mA</b> VDS: (1) 501V /3.14A (2) 493V /3.31A (3) 493V /3.46A (4) 493V /3.3A  <b>CP: 700mA</b> VDS: (1) 557V /9.1A (2) 557V /9.1A (3) 557V /9.1A (4) 557V /9.1A	
3	P.F.C DIODE	D1 Rated: 9A/600V	I/P:High-Line +3V =308V AC ON/OFF <b>CP: 700mA</b> O/P: (1)LEDmax (2) LEDmin (3) Output Short (4)LED min dimming on/off	(1) 429V (2) 429V (3) 437V (4)437V	
4	Diode Peak <b>Voltage</b>	D102 Rated: 6A/400V	I/P:High-Line +3V =308V AC ON/OFF <b>CP: 700mA</b> O/P: (1)LEDmax (2) Output Short (3) burst mode	<b>CP: 700mA</b> (1) 276V (2) 4.36V (3) 276V	
5	<b>Input Capacitor Voltage</b>	C5 Rated: : 100 $\mu$ /450 V	I/P:High-Line +3V =308V AC ON/OFF <b>CP: 700mA</b> O/P: (1)LEDmax (3) LEDmin  Ta:25°C	(1) 429V (2) 420V	
6	<b>Control IC Voltage Test</b>	PWM IC U2 Rated 30V	I/P:High-Line +3V =308V AC ON/OFF <b>CP: 700mA</b> VCC: O/P: (1)LEDmax (2) LEDmin (3) Output Short (4)NO LOAD VRmin.LOW LINE (5)OVP  Ta:25°C	<b>U2</b> (1) 13.7V (2) 13.7V (3) 13.7V (4) 13.7V (5) 13.7V	

### 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:2.58 mA I/P-FG: 2.45mA O/P-FG: 3.52mA 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: 30GΩ I/P-FG: 29.9G Ω O/P-FG: 30G Ω NO DAMAGE
3	GROUNDING CONTINUITY	EN61230-1 FG(PE) TO CHASSIS OR TRACE < 100 mΩ	40A / 2min Ta:25°C	18mΩ

#### 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-L 1. ROOM AMBIENT BURN-IN : 2 HRS I/P : 230VAC O/P : FULL LOAD Ta= 25.0°C 2. HIGH AMBIENT BURN-IN : 2 HR I/P : 230VAC O/P : FULL LOAD Ta=55.0°C																																																																																		
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19	TC	51.8°C	80.0°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	±0.0003%/°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-L : 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) 87305 HRS (2) 91428 HRS (3) 94170 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