



Test Report: XLG-200-H-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: 3.5A & 5.55A Ta:25°C	CP3.5A: 3.508A/230VAC@CV MAX-1V 3.522A/230VAC@CV MIN 0.62% CP 5.55A: 5.559A/230VAC@CV MAX-1V 5.547A/230VAC@CV MIN 1.06%
2	FULL POWER CURRENT RANGE	3500~5550mA	I/P: 230VAC O/P:LEDmax CP: 3.5A & 5.55A Ta:25°C	56V/3.5A/230VAC 36V/5.55A/230VAC
3	OPEN CIRCUIT VOLTAGE (max)	65V	I/P: 230VAC O/P:NO LOAD CP: OPEN Ta:25°C	59.63V
4	CONSTANT CURRENT REGION	CP 3.5A: CH1:27V~ 56V CP 5.55A: CH1:27V~ 36V	I/P: 230VAC O/P:LEDmax CP: 3.5A & 5.55A Ta:25°C	CP 3.5A: 27V~ 56V/230VAC CP 5.55A: 27V~ 36V/230VAC
5	CURRENT ADJ. RANGE	CH1: 1750mA~5550mA	I/P: 230VAC O/P:CVmin& CVmax-1V CP: 3.5A & 5.55A Ta:25°C	1538mA~4382mA/230VAC@CV MAX-1V 1542mA~6152mA/230VAC@CV MIN
6	CURRENT RIPPLE	4.0% max.	I/P: 230VAC O/P:LEDmax CP: 3.5A & 5.55A Ta:25°C	CP 3.5A: 1.52% CP 5.55A: 1.83%
7	AUXILIARY DC OUTPUT	12V@250mA tolerance ± 10%, ripple 200mVp-p (only for DA2-A-type)	I/P: 230VAC O/P:LEDmax CP: 3.5A & 5.55A Ta:25°C	PASS

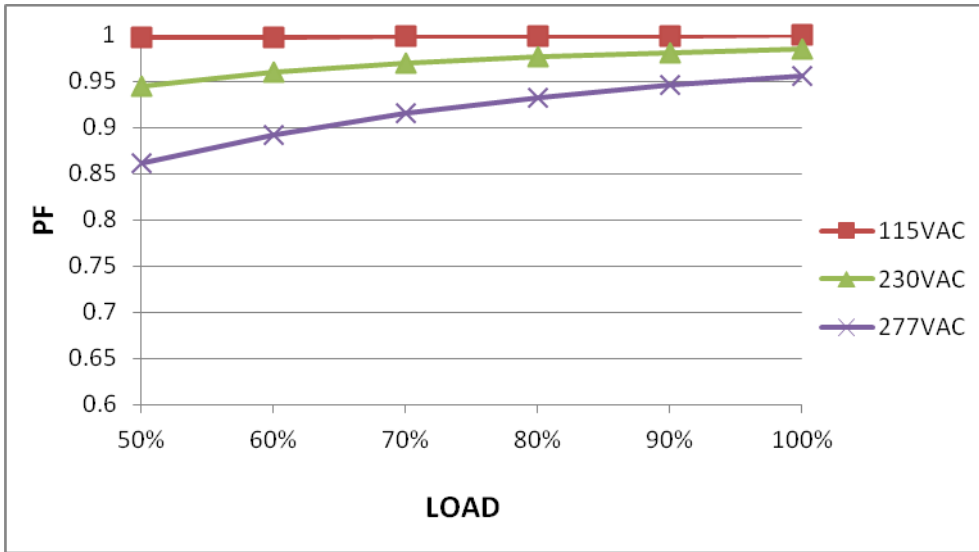
8	SET UP TIME	230VAC/ 500 ms (Max) 115VAC/ 1200 ms (Max)	I/P: 230VAC I/P: 115VAC O/P:LEDmax CP 3.5A Ta:25°C	230VAC/260ms 115VAC/ 534ms
INPUT=230VAC/50HZ @ LEDMAX@ CP 3.5A CH1 : Output Voltage CH2 : AC Input Voltage		INPUT=230VAC/60HZ @ LEDMAX@ CP 3.5A CH1 : Output Voltage CH2 : AC Input Voltage		

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	(1) 97Vac~308Vac (2) 142Vdc~431Vdc
			(2) I/P:DC TESTING(L:+ N:-) O/P:LEDmax	(3) 142Vdc~431Vdc (4) 142Vdc~431Vdc
			(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 3.5A (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 3.5A Ta:25°C	TEST:OK

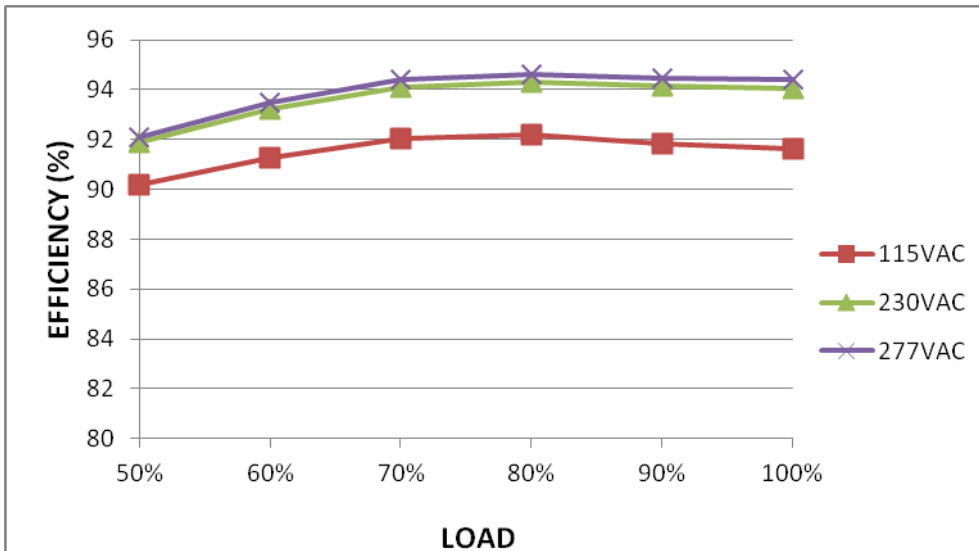
3	INPUT CURRENT (TYP)	230VAC/ 1.1A 115VAC/ 2.2A 277VAC/0.9A	I/P: 230VAC/115VAC/277VAC O/P:LEDmax CP 3.5A Ta:25°C	I =0.923A/ 230VAC I =1.88A/115VAC I =0.779A/277VAC
4	POWER FACTOR(TYP)	0.92/277VAC LEDMAX 0.95/230VAC LEDMAX 0.97/115VAC LEDMAX	I/P: 277VAC/230VAC/115VAC O/P:LEDmax CP 3.5A Ta:25°C	PF=0.956/277V/100%LOAD PF=0.985/230V/100%LOAD PF=0.999/115V/100%LOAD

P.F vs LOAD



5	EFFICIENCY (TYP)	93%	I/P: 230VAC O/P:LEDmax CP 3.5A Ta:25°C	94.05%
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EFFICIENCY vs LOAD



6	INRUSH CURRENT (TYP)	230V/ 75A COLD START (twitdh=400 usmeasured at 50% Ipeak) COLD START	I/P: 230VAC O/P:LEDmax CP 3.5A Ta:25°C	I =71.5A /230VAC T50= 376 μ S																												
<p>INPUT=230VAC/ 60HZ @ LEDMAX CH4 : AC Input Voltage CH1 : Input current</p> <p>7 12月2022 16:24:48</p>																																
7	TOTAL HARMONIC DISTORTION	THD < 10% (@ load ≥ 50% at 115VAC/230VAC, @load ≥ 75% at 277VAC(60Hz)	I/P : 230VAC/115VAC/277VAC O/P : 50% LOAD 75%LOAD CP 3.5A Ta : 25°C	THD : 6.81%230V /50% THD : 2.94%115V /50% THD : 7.56%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>~3.0</td> <td>~6.8</td> <td>~11.5</td> </tr> <tr> <td>60%</td> <td>~3.2</td> <td>~6.2</td> <td>~9.5</td> </tr> <tr> <td>70%</td> <td>~2.8</td> <td>~6.3</td> <td>~8.2</td> </tr> <tr> <td>80%</td> <td>~2.5</td> <td>~5.8</td> <td>~7.2</td> </tr> <tr> <td>90%</td> <td>~2.3</td> <td>~6.0</td> <td>~6.5</td> </tr> <tr> <td>100%</td> <td>~2.2</td> <td>~4.8</td> <td>~6.1</td> </tr> </tbody> </table>					LOAD (%)	115VAC THD (%)	230VAC THD (%)	277VAC THD (%)	50%	~3.0	~6.8	~11.5	60%	~3.2	~6.2	~9.5	70%	~2.8	~6.3	~8.2	80%	~2.5	~5.8	~7.2	90%	~2.3	~6.0	~6.5	100%	~2.2	~4.8	~6.1
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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	0.445W																												
9	LEAKAGE CURRENT	EN61347-1 < 0.75mA / 277VAC	I/P: 277 VAC O/P:Min LOAD Ta:25°C	L-FG: 0.6023mA N-FG: 0.6017mA																												

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 3.5A 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: 3.5A &5.55A Ta:25°C	CP: 3.5A NO DAMAGE PROTECTION TYPE : Hiccup mode or constant current limiting, recovers automatically after fault condition is removed CP: 5.55A 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	<p>I/P:High-Line +3V =308V AC ON/OFF CP: 3.5A&5.55A 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: 3.5A Q6 VDS: (1) 466V (2) 462V (3) 478V (4) 438V (5) 498V</p> <p>CP: 5.55A VDS: (1) 474V (2) 478V (3) 478V (4) 462V (5) 502V</p> <p>97V CP: 3.5A Q6 VDS: (1) 482V (2) 454V (3) 498V (4) 442V (5) 510V</p>
2	P.F.C Transistor (D to S) or (C to E) Peak Voltage	Q1 Rated: 20A/600V	<p>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 (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: 3.5A Q1 VDS: (1) 514V (2) 514V (3) 466V (4) 462V (5) 466V</p> <p>97V CP: 3.5A Q1 VDS: (1) 539V (2) 518V (3) 539V (4) 494V (5) 522V</p>

3	P.F.C DIODE	<p>D5 Rated: 8A/600V</p>	<p>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 (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</p> <p>Ta:25°C</p>	<p>(1) 461V (2) 457V (3) 457V (4)457V (5)444V</p> <p>(1)452 V (2) 448V (3) 457V (4)444V (5)444V</p>
4	Diode Peak Voltage	<p>Q100 Rated: 40A/150V</p>	<p>I/P:High-Line +3V =308v AC ON/OFF CP: 3.5A&5.55A VDS: O/P: (1)LEDmax (2) LEDmax continue (3) Output Short</p> <p>Ta:25°C</p>	<p>CP: 3.5A Q100 VDS: (1) 116.6V (2) 114.9V (3) 14.4V CP: 5.55A Q100 VDS: (1) 81.2V (2) 80.4V (3) 12.8V</p>
5	Input Capacitor Voltage	<p>C5 Rated: 100μ /450 V Surge voltage: 540 V</p>	<p>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</p> <p>Ta:25°C</p>	<p>(1)451 V (2) 454V (3) 458V (4) 438V</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: 3.5A VDS: O/P: (1)LEDmax (2) LEDmin (3) Output Short (4) NO LOAD VRmin.LOW LINE (5)DIM OFF</p>	<p>U1&U2 (1) 15.12V (2) 14.88V (3) 15.26V (4) 15.18V (5) 1.9V</p>

			Ta:25°C	U107 (1) 10.56V (2) 10.52V (3) 10.85V (4) 10.52V (5) 10.43V
7	TOP SWITCHING STAND BY POWER	U300 Rated 1.5A/750V	AC ON/OFF CP: 3.5A 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: 3.5A (1) 572V (2) 581V (1) 586V (2) 591V
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	D304 (1) 1.13A (2) 0.82A (3) 0.98A (4) 0.65A D450 (1) 1.12A (2)0.79 A (3)1.02 A (4)0.65A D470 (1)1.93A (2)1.45A (3)1.42A (4)1.38A

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: 2.672mA I/P-FG: 3.129mA O/P-FG: 2.548mA 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	11mΩ

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-H-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																																																																																																																		
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27	TC	59.5°C	83.6°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 : 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	±0.0011%/°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 : 12min/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-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) 73084 HRS (2) 74174 HRS (3) 92993 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