



Test Report: XLG-100-H

100W 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

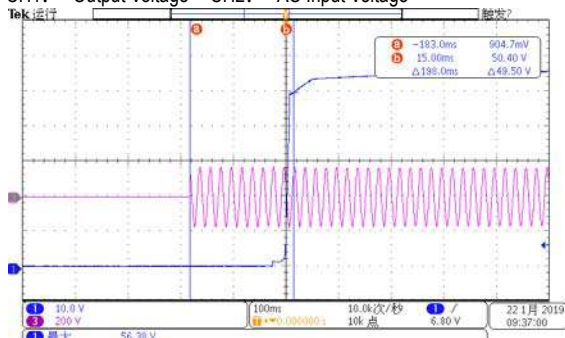
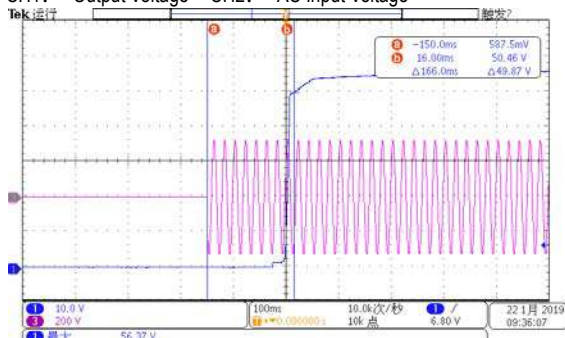
E.M.C. Test

■ RELIABILITY TEST

Environment Test

DESIGN VERIFY TEST

OUTPUT FUNCTION TEST

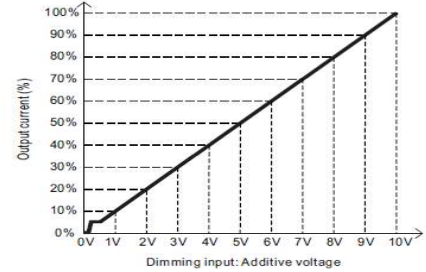
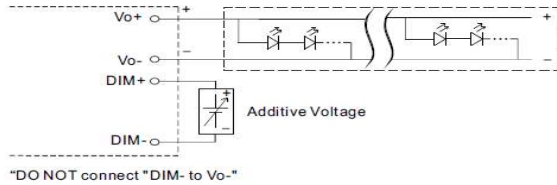
NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	CURRENT TOLERANCE	$\pm 5\%$	I/P: 100 VAC / 305 VAC O/P: FULL/ MIN LOAD Ta: 25°C	$< \pm 5\%$
2	CONSTANT CURRENT REGION	27V-56V	I/P: 230 VAC O/P: FULL LOAD Ta: 25°C	24 V~ 56.2 V
3	OPEN CIRCUIT VOLTAGE (max.)	60 V	I/P: 230 VAC O/P: NO LOAD	56.35V
4	CURRENT RIPPLE	3.0% max. @rated current	I/P: 230 VAC O/P: FULL LOAD Ta: 25°C	0.2%
5	CURRENT ADJ. RANGE	875 mA ~2780mA	I/P: 230 VAC O/P: TESTING Ta: 25°C	808mA~ 3098mA
6	CONSTANT POWER	O/P: 100W	I/P: 230 VAC O/P: $V_o \times I_o$	TEST: OK
7	SET UP TIME(Max)	1200ms/115VAC 500ms/230VAC	I/P: 115 VAC I/P: 230 VAC O/P: FULL LOAD Ta: 25°C	198/115 VAC 166/230 VAC
INPUT=115VAC/50HZ @ FULL LOAD CH1: Output Voltage CH2: AC Input Voltage  INPUT=230 VAC/50HZ @ FULL LOAD CH1: Output Voltage CH2: AC Input Voltage 				

8 DIMMING OPERATION (for AB-Type)

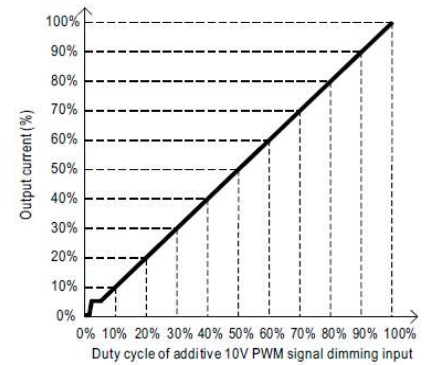
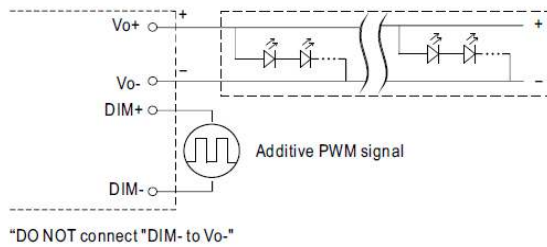
※ 3 in 1 dimming function (for AB-Type)

- 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: 100 μ A (typ.)

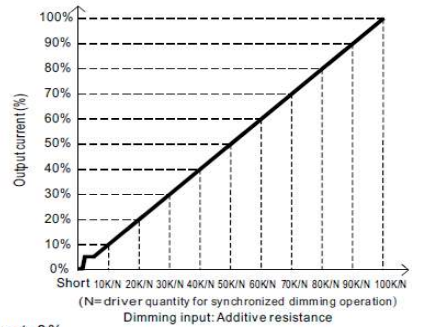
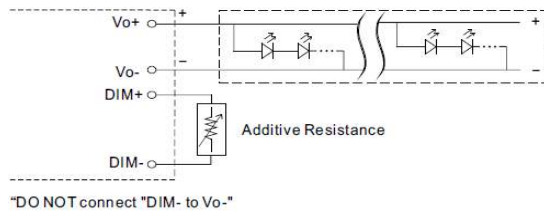
◎ Applying additive 0 ~ 10VDC



◎ 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 0k Ω or 0Vdc, or 10V PWM signal with 0% duty cycle.

I/P: 230 VAC

O/P: DIMMING TEST

Ta: 25°C

	DIMMING	Short	1V	2V	3V	4V	5V	6V	7V	8V	9V	10V	OPEN
1	Output Current	0	0.199A	0.364A	0.530A	0.725A	0.893A	1.090A	1.259A	1.429A	1.614A	1.776A	1.777A
	%	0%	11.36%	20.80%	30.31%	41.44%	51.02%	62.26%	71.93%	81.67%	92.23%	101.51%	101.53%
2	PWM	0V	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	OPEN
	Output Current	0	0.187A	0.363A	0.538A	0.713A	0.886A	1.068A	1.246A	1.430A	1.610A	1.774A	1.774A
	%	0%	10.70%	20.75%	30.74%	40.73%	50.61%	61.01%	71.18%	81.71%	92.00%	101.37%	101.39%
3	R	0%	10K	20K	30K	40K	50K	60K	70K	80K	90K	100K	OPEN
	Output Current	0	0.198A	0.363A	0.516A	0.724A	0.865A	1.061A	1.216A	1.415A	1.585A	1.758A	1.776A
	%	0%	11.29%	20.73%	29.46%	41.39%	49.42%	60.62%	69.49%	80.85%	90.58%	100.48%	101.51%

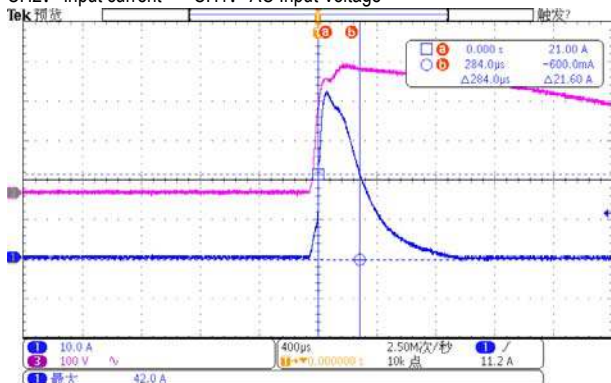
TEST RESULT: OK

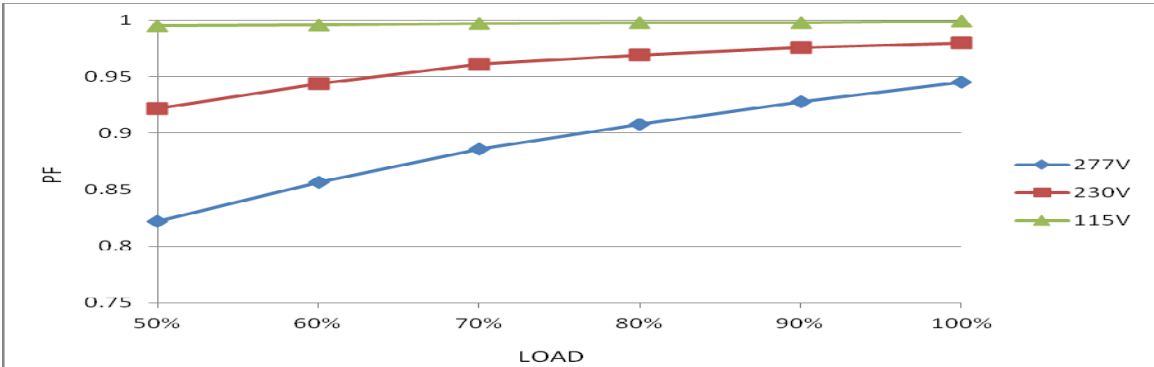
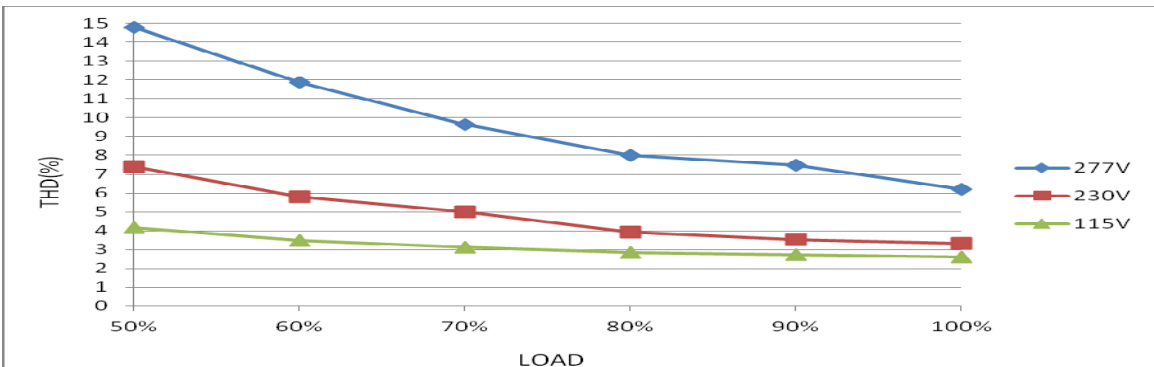
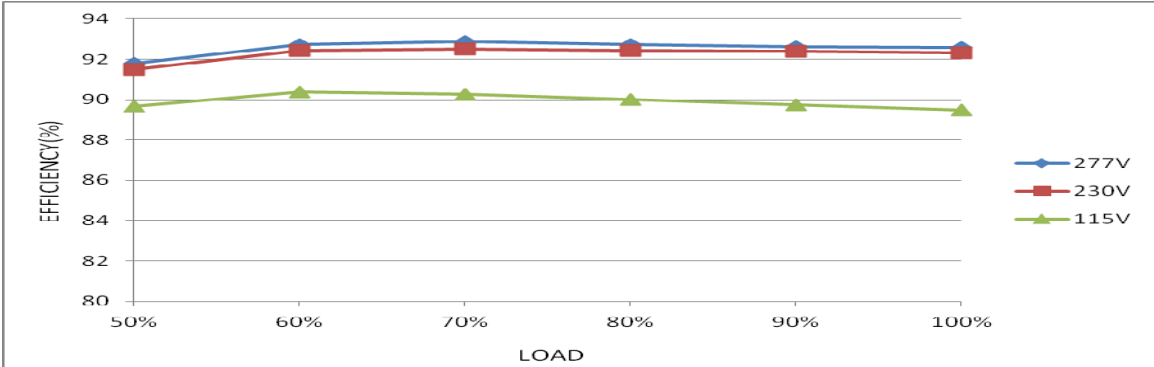
INPUT FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	INPUT VOLTAGE RANGE	100VAC~305VAC	I/P: TESTING O/P: FULL LOAD (PLEASE CHECK DERATING CURVE) Ta: 25°C	97V~315 V
			I/P: LOW-LINE-3V=97 V HIGH-LINE+10V=315 V O/P: FULL/MIN LOAD (PLEASE CHECK DERATING CURVE) ON: 30 Sec OFF: 30 Sec 10MIN (POWER ON/OFF NO DAMAGE)	TEST: OK
2	INPUT FREQUENCY RANGE	47HZ ~63 HZ NO DAMAGE	I/P: 100 VAC ~305 VAC O/P: FULL~NO LOAD Ta: 25°C	TEST: OK
3	AC CURRENT	1.1A/115VAC 0.5A/230VAC 0.42A/277VAC	I/P: 115 VAC I/P: 230 VAC I/P: 277 VAC O/P: FULL LOAD Ta: 25°C	I=0.951A/ 115VAC I = 0.467A/ 230VAC I = 0.389A/277VAC
4	LEAKAGE CURRENT	< 0.75mA / 277VAC	I/P: 277 VAC O/P: NO LOAD Ta: 25°C	L-FG: 0.448mA N-FG: 0.448mA
5	STANDBY POWER CONSUMPTION	<0.5W for AB -Type	I/P: 230VAC O/P: STANDBY Ta: 25°C	0.437W
6	INRUSH CURRENT(Typ)	230 V/ 50A COLD START (twidth=300us measured at 50% Ipeak) COLD START at 230V	I/P: 230 VAC O/P: FULL LOAD Ta: 25°C	I=42.0A/ 230VAC Twidth = 284us

INPUT=230VAC/50HZ @ FULL LOAD

CH2: Input current CH1: AC Input Voltage



7	POWER FACTOR	0.97/ 115VAC@ FULL LOAD 0.95/ 230VAC@ FULL LOAD 0.92/ 277VAC@ FULL LOAD	I/P: 115 VAC I/P: 230 VAC I/P: 277 VAC O/P: FULL LOAD Ta: 25°C	PF=0.999 @ FULL LOAD /115VAC PF=0.980 @ FULL LOAD /230VAC PF=0.945 @ FULL LOAD /277VAC																												
PF vs LOAD  <table><caption>PF vs LOAD Data</caption><thead><tr><th>LOAD</th><th>115V</th><th>230V</th><th>277V</th></tr></thead><tbody><tr><td>50%</td><td>0.999</td><td>0.945</td><td>0.920</td></tr><tr><td>60%</td><td>0.999</td><td>0.955</td><td>0.860</td></tr><tr><td>70%</td><td>0.999</td><td>0.965</td><td>0.890</td></tr><tr><td>80%</td><td>0.999</td><td>0.970</td><td>0.910</td></tr><tr><td>90%</td><td>0.999</td><td>0.975</td><td>0.930</td></tr><tr><td>100%</td><td>0.999</td><td>0.980</td><td>0.945</td></tr></tbody></table>					LOAD	115V	230V	277V	50%	0.999	0.945	0.920	60%	0.999	0.955	0.860	70%	0.999	0.965	0.890	80%	0.999	0.970	0.910	90%	0.999	0.975	0.930	100%	0.999	0.980	0.945
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8	TOTAL HARMONIC DISTORTION	THD<10% (@load≥50%/115VAC; @load≥50%/230VAC; @load≥75%/277VAC)	I/P: 115 VAC I/P: 230 VAC I/P: 277 VAC O/P: 50% /75% LOAD Ta: 25°C	THD=4.15% @50% load /115VAC THD=7.41% @50% load /230VAC THD=8.84% @75% load /277VAC																												
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9	EFFICIENCY(Typ)	91%	I/P: 230VAC O/P: FULL LOAD Ta: 25°C	92.32%																												
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PROTECTION FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	OVER POWER PROTECTION	105-150%	I/P: 100VAC I/P: 230VAC I/P: 305VAC O/P: TESTING Ta: 25°C	131.6%/ 100VAC 126 %/ 230VAC 115.8%/ 305VAC Hiccup mode, recovers automatically after fault condition is removed
2	OVER TEMPERATURE PROTECTION	NO DAMAGE	I/P: 100VAC I/P: 230VAC I/P: 305VAC O/P: FULL LOAD	O.T.P. Active Shut down output voltage, re-power on to recovery
3	OVER VOLTAGE PROTECTION	V1: 66V~ 90V	I/P: 305VAC I/P: 230VAC I/P: 100VAC O/P: MIN LOAD Ta: 25°C	70.4V/ 305VAC 70.4V/ 230VAC 70.0V/ 100VAC Shut down output voltage, re-power on to recover
4	SHORT PROTECTION	SHORT EVERY OUTPUT 1 HOUR NO DAMAGE	I/P: 100VAC I/P: 230VAC I/P: 305VAC O/P: FULL LOAD Ta: 25°C	NO DAMAGE Hiccup mode or Constant Current Limiting, recovers automatically after fault condition is removed
5	INPUT OVER VOLTAGE (for XLG-75I 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	Q2 Rated 6A/600V	I/P: High-Line +3V =308V O/P: (1) Full Load Turn on (2) Output Short (3) Full load continue Ta: 25°C	(1) 444V (2) 445V (3) 445V
2	PFC Transistor	Q1 Rated 12.5A/700V	I/P: High-Line +3V =308V O/P: (1) Full Load (2) Output Short (3) Full Load continue	(1) 451V (2) 434V (3) 452V
3	P.F.C DIODE	D5 Rated 9A/600V	I/P: High-Line +3V =308V O/P: (1) Full Load Turn on (2) Output Short (3) Full load continue Ta: 25°C	(1) 469V (2) 450V (3) 471V



100W Constant Power Mode LED Driver

XLG-100 series

4	Diode Peak Voltage	D100 Rated 15A/150 V	I/P: High-Line +3V =308V O/P: (1)Full Load (2)Output Short (3) Full Load continue (4) No Load Ta: 25°C	(1) 106V (2) 3V (3)105V (4) 59V
5	Input Capacitor Voltage	C5 Rated: 47 μ F/ 450V	I/P: High-Line +3V =308 V 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	(1) 448V (2) 444V (3) 445V (4) 444V
6	Control IC Voltage Test	U2 Rated 28 V	I/P: High-Line +3V =308V O/P:(1)FULL LOAD (2) Output Short (3)O.V.P (4)NO LOAD VR.LOW LINE Ta: 25°C	(1) 12.0V (2) 12.0V (3) 12.0V (4) 12.0V

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: 3.332mA I/P-FG: 3.533mA O/P-FG: 2.888mA 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: >9999G Ω I/P-FG: >9999 G Ω O/P-FG: >9999 G Ω NO DAMAGE
3	GROUNDING CONTINUITY	FG(PE) TO CHASSIS OR TRACE < 100 m Ω	40A / 2min Ta:25°C	17m 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

100W Constant Power Mode LED Driver

XLG-100 series

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-100-H 1. ROOM AMBIENT BURN-IN: 2 HRS I/P: 230VAC O/P: FULL LOAD Ta= 29.1℃ 2. HIGH AMBIENT BURN-IN: 2 HRS I/P: 230VAC O/P: FULL LOAD Ta=60.3℃ <table><thead><tr><th>NO</th><th>Position</th><th>ROOM AMBIENT Ta= 29.1 ℃</th><th>HIGH AMBIENT Ta=60.3 ℃</th></tr></thead><tbody><tr><td>1</td><td>ZNR3</td><td>52.5℃</td><td>84.4℃</td></tr><tr><td>2</td><td>C1</td><td>55.1℃</td><td>86.7℃</td></tr><tr><td>3</td><td>RT1</td><td>62.8℃</td><td>92.8℃</td></tr><tr><td>4</td><td>LF2</td><td>57.6℃</td><td>89.6℃</td></tr><tr><td>5</td><td>ZNR4</td><td>56.4℃</td><td>88.4℃</td></tr><tr><td>6</td><td>BD1</td><td>56.9℃</td><td>88.7℃</td></tr><tr><td>7</td><td>C10</td><td>56.0℃</td><td>88.2℃</td></tr><tr><td>8</td><td>L2</td><td>61.1℃</td><td>93.0℃</td></tr><tr><td>9</td><td>Q1</td><td>62.0℃</td><td>94.2℃</td></tr><tr><td>10</td><td>C5</td><td>61.7℃</td><td>93.9℃</td></tr><tr><td>11</td><td>D4</td><td>58.0℃</td><td>90.1℃</td></tr><tr><td>12</td><td>D5</td><td>59.4℃</td><td>92.2℃</td></tr><tr><td>13</td><td>Q2</td><td>63.1℃</td><td>96.8℃</td></tr><tr><td>14</td><td>Q3</td><td>65.3℃</td><td>97.8℃</td></tr><tr><td>15</td><td>R7</td><td>59.3℃</td><td>91.8℃</td></tr><tr><td>16</td><td>U1</td><td>59.8℃</td><td>92.0℃</td></tr><tr><td>17</td><td>U2</td><td>65.9℃</td><td>98.3℃</td></tr><tr><td>18</td><td>C15</td><td>62.3℃</td><td>94.3℃</td></tr><tr><td>19</td><td>T1</td><td>69.7℃</td><td>103.2℃</td></tr><tr><td>20</td><td>D100</td><td>66.5℃</td><td>97.7℃</td></tr><tr><td>21</td><td>D101</td><td>68.5℃</td><td>100.3℃</td></tr><tr><td>22</td><td>U100</td><td>57.6℃</td><td>89.5℃</td></tr><tr><td>23</td><td>C105</td><td>62.0℃</td><td>94.5℃</td></tr><tr><td>24</td><td>C106</td><td>60.8℃</td><td>93.2℃</td></tr><tr><td>25</td><td>TC</td><td>53.7℃</td><td>84.7℃</td></tr></tbody></table>			NO	Position	ROOM AMBIENT Ta= 29.1 ℃	HIGH AMBIENT Ta=60.3 ℃	1	ZNR3	52.5℃	84.4℃	2	C1	55.1℃	86.7℃	3	RT1	62.8℃	92.8℃	4	LF2	57.6℃	89.6℃	5	ZNR4	56.4℃	88.4℃	6	BD1	56.9℃	88.7℃	7	C10	56.0℃	88.2℃	8	L2	61.1℃	93.0℃	9	Q1	62.0℃	94.2℃	10	C5	61.7℃	93.9℃	11	D4	58.0℃	90.1℃	12	D5	59.4℃	92.2℃	13	Q2	63.1℃	96.8℃	14	Q3	65.3℃	97.8℃	15	R7	59.3℃	91.8℃	16	U1	59.8℃	92.0℃	17	U2	65.9℃	98.3℃	18	C15	62.3℃	94.3℃	19	T1	69.7℃	103.2℃	20	D100	66.5℃	97.7℃	21	D101	68.5℃	100.3℃	22	U100	57.6℃	89.5℃	23	C105	62.0℃	94.5℃	24	C106	60.8℃	93.2℃	25	TC	53.7℃	84.7℃
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1	ZNR3	52.5℃	84.4℃																																																																																																									
2	C1	55.1℃	86.7℃																																																																																																									
3	RT1	62.8℃	92.8℃																																																																																																									
4	LF2	57.6℃	89.6℃																																																																																																									
5	ZNR4	56.4℃	88.4℃																																																																																																									
6	BD1	56.9℃	88.7℃																																																																																																									
7	C10	56.0℃	88.2℃																																																																																																									
8	L2	61.1℃	93.0℃																																																																																																									
9	Q1	62.0℃	94.2℃																																																																																																									
10	C5	61.7℃	93.9℃																																																																																																									
11	D4	58.0℃	90.1℃																																																																																																									
12	D5	59.4℃	92.2℃																																																																																																									
13	Q2	63.1℃	96.8℃																																																																																																									
14	Q3	65.3℃	97.8℃																																																																																																									
15	R7	59.3℃	91.8℃																																																																																																									
16	U1	59.8℃	92.0℃																																																																																																									
17	U2	65.9℃	98.3℃																																																																																																									
18	C15	62.3℃	94.3℃																																																																																																									
19	T1	69.7℃	103.2℃																																																																																																									
20	D100	66.5℃	97.7℃																																																																																																									
21	D101	68.5℃	100.3℃																																																																																																									
22	U100	57.6℃	89.5℃																																																																																																									
23	C105	62.0℃	94.5℃																																																																																																									
24	C106	60.8℃	93.2℃																																																																																																									
25	TC	53.7℃	84.7℃																																																																																																									



100W Constant Power Mode LED Driver

XLG-100 series

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 60 °C NO DAMAGE	I/P: 305VAC O/P: FULL LOAD Ta=60 °C HUMIDITY= 95% R.H	TEST: OK
4	TEMPERATURE COEFFICIENT	±0.03%/°C (0~60°C)	I/P: 230 VAC O/P: FULL LOAD	±0.0026%/°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~+60°C	1. Thermal shock Temperature: -45°C ~ +65°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-100-H: SUPPOSE C105 IS THE MOST CRITICAL COMPONENT (1) I/P: 230VAC O/P: FULL LOAD Tc= 80 °C LIFE TIME (2) I/P: 230VAC O/P: 75% LOAD Tc= 80 °C LIFE TIME (3) I/P: 230VAC O/P: 50% LOAD Tc= 80 °C LIFE TIME		(1) 39835 HRS (2) 55627 HRS (3) 63991 HRS
9	MTBF	Conducted by Parts Stress Analysis Prediction 1006.16 K hrs min. Telcordia SR-332 (Bellcore) 276.37K 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