



Test Report: XLG-150-H

150W 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

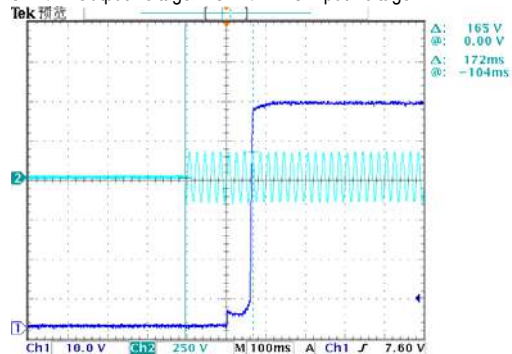
DESIGN VERIFY TEST

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	16.1 V~ 57.5 V
3	OPEN CIRCUIT VOLTAGE (max.)	60 V	I/P: 230 VAC O/P: NO LOAD	57.7V
4	CURRENT RIPPLE	4.0% max. @ full load	I/P: 230 VAC O/P: FULL LOAD Ta: 25°C	2.3%
5	CURRENT ADJ. RANGE	1400 mA ~4170mA	I/P: 230 VAC O/P: TESTING Ta: 25°C	1132mA~ 4360mA
6	CONSTANT POWER	O/P: 150W	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	172/115 VAC 156/230 VAC

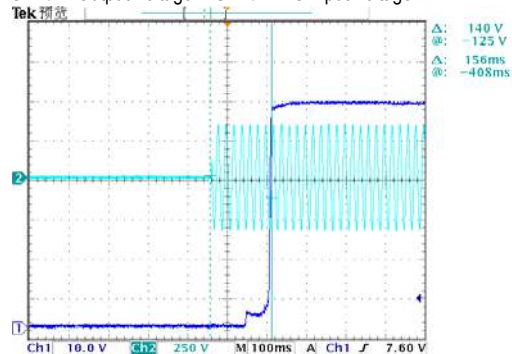
INPUT=115VAC/50HZ @ FULL LOAD

CH1: Output Voltage CH2: AC Input Voltage



INPUT=230 VAC/50HZ @ FULL LOAD

CH1: Output Voltage CH2: AC Input Voltage

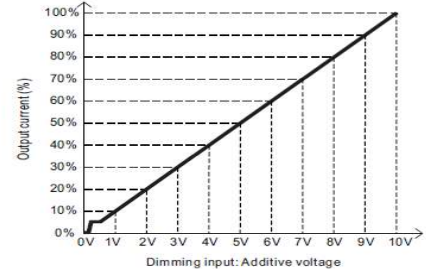
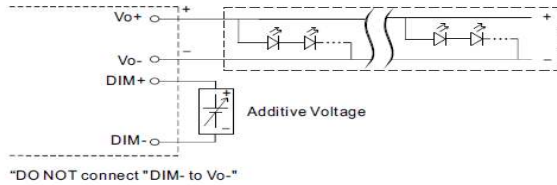


8 DIMMING OPERATION (for AB-Type)

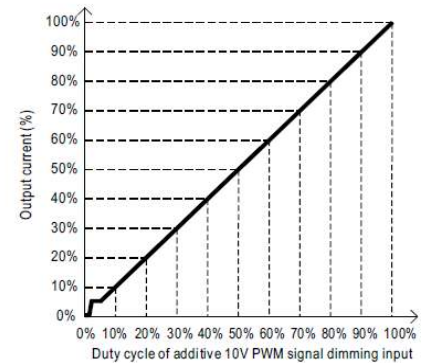
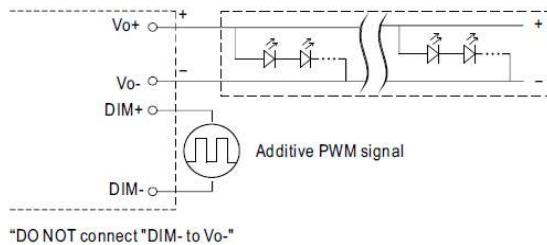
※ 3 in 1 dimming function (for AB-Type)

- 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.)

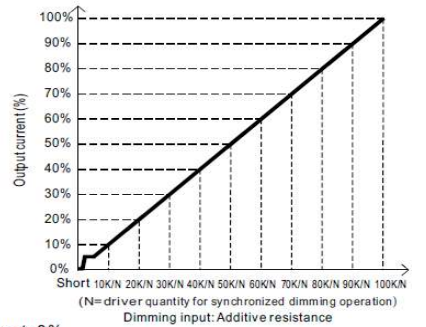
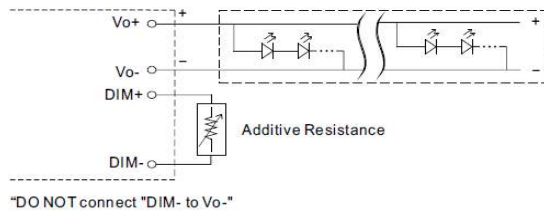
◎ Applying additive 0 ~ 10VDC



◎ 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	0.353A	0.597A	0.842A	1.129A	1.377A	1.669A	1.914A	2.189A	2.484A	2.679A	2.680A
	%	0%	13.16%	22.27%	31.42%	42.13%	51.37%	62.28%	71.41%	81.66%	92.67%	99.98%	100.00%
2	PWM	0V	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	OPEN
	Output Current	0	0.348A	0.592A	0.879A	1.126A	1.367A	1.668A	1.914A	2.193A	2.483A	2.678A	2.677A
	%	0%	12.99%	22.10%	32.79%	42.00%	51.01%	62.22%	71.42%	81.84%	92.63%	99.93%	99.90%
3	R	0%	10K	20K	30K	40K	50K	60K	70K	80K	90K	100K	OPEN
	Output Current	0	0.352A	0.597A	0.843A	1.130A	1.370A	1.631A	1.869A	2.136A	2.389A	2.680A	2.679A
	%	0%	13.15%	22.28%	31.45%	42.18%	51.11%	60.87%	69.75%	79.71%	89.13%	100.01%	99.98%

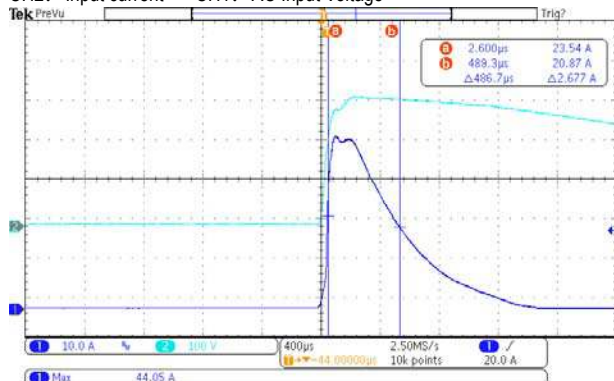
TEST RESULT: OK

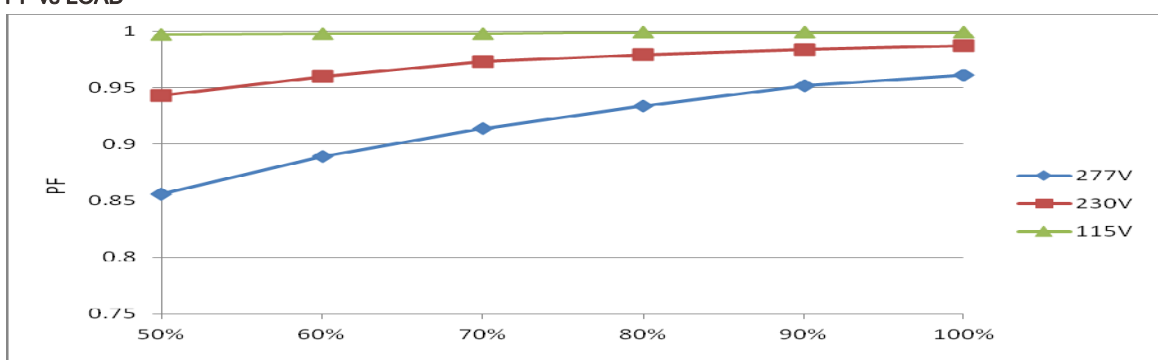
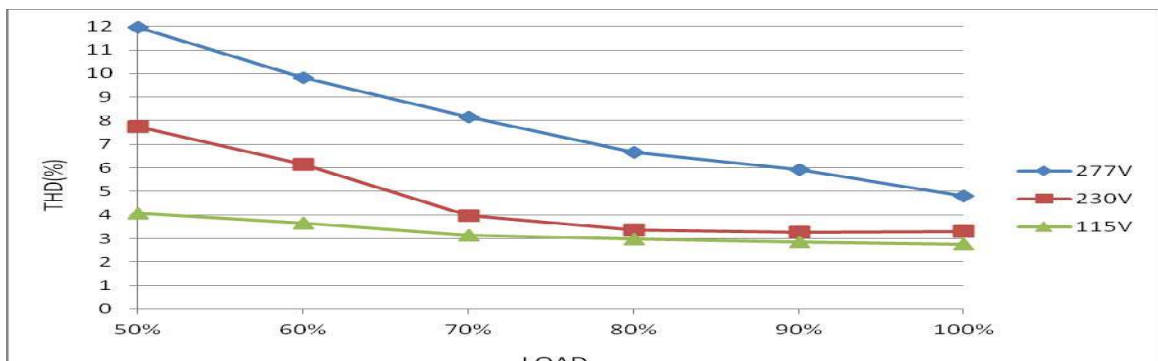
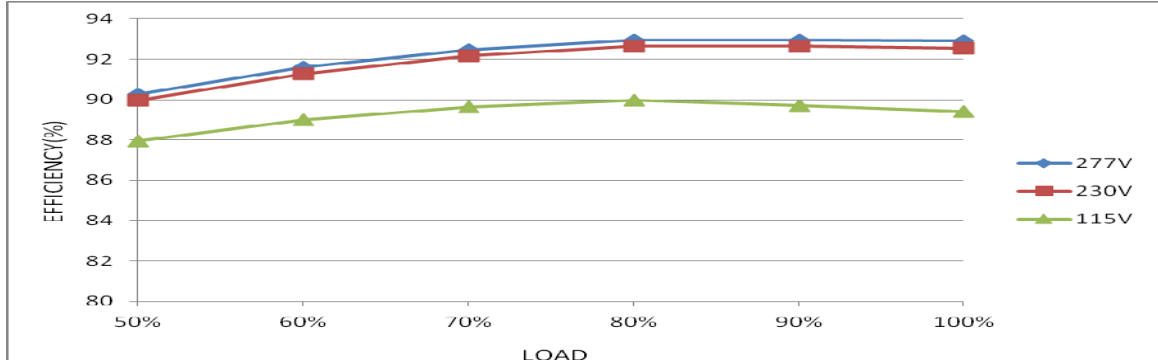
INPUT FUNCTION TEST

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~308 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	1.8A/115VAC 1.0A/230VAC 0.8A/277VAC	I/P: 115 VAC I/P: 230 VAC I/P: 277 VAC O/P: FULL LOAD Ta: 25°C	I=1.438A/ 115VAC I= 0.701A/ 230VAC I= 0.592A/277VAC
4	LEAKAGE CURRENT	< 0.75mA / 277VAC	I/P: 277 VAC O/P: NO LOAD Ta: 25°C	L-FG: 0.326mA N-FG: 0.384mA
5	STANDBY POWER CONSUMPTION	<0.5W for AB -Type	I/P: 230VAC O/P: STANDBY Ta: 25°C	0.361W
6	INRUSH CURRENT(Typ)	230 V/ 50A COLD START (twidth=500us measured at 50% Ipeak) COLD START at 230V	I/P: 230 VAC O/P: FULL LOAD Ta: 25°C	I=44.0A/ 230VAC Twidth = 486us

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=0.987 @ FULL LOAD /230VAC PF=0.961@ 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>0.94</td><td>0.85</td></tr><tr><td>60%</td><td>0.999</td><td>0.96</td><td>0.89</td></tr><tr><td>70%</td><td>0.999</td><td>0.97</td><td>0.91</td></tr><tr><td>80%</td><td>0.999</td><td>0.98</td><td>0.93</td></tr><tr><td>90%</td><td>0.999</td><td>0.985</td><td>0.95</td></tr><tr><td>100%</td><td>0.999</td><td>0.987</td><td>0.961</td></tr></tbody></table>					LOAD	115V	230V	277V	50%	0.999	0.94	0.85	60%	0.999	0.96	0.89	70%	0.999	0.97	0.91	80%	0.999	0.98	0.93	90%	0.999	0.985	0.95	100%	0.999	0.987	0.961
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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=4.07% @50% load /115VAC THD=7.73% @50% load /230VAC THD=7.87% @75% load /277VAC																												
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9	EFFICIENCY(Typ)	92%	I/P: 230VAC O/P: FULL LOAD Ta: 25°C	92.55%																												
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PROTECTION FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	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
2	OVER VOLTAGE PROTECTION	V1: 61V~ 78V	I/P: 305VAC I/P: 230VAC I/P: 100VAC O/P: MIN LOAD Ta: 25°C	67.6V/ 305VAC 67.2V/ 230VAC 67.2V/ 100VAC Shut down output voltage, re-power on to recover
3	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
4	INPUT OVER VOLTAGE (for XLG-150I 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	Q5 Rated 11A/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) 438V (2) 450V (3) 432V
2	PFC Transistor	Q1 Rated 10.6A/650V	I/P: High-Line +3V =308V O/P: (1) Full Load (2) Output Short (3) Full Load continue	(1) 478V (2) 482V (3) 470V
3	P.F.C DIODE	D1 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) 450V (2) 466V (3) 446V
4	Diode Peak Voltage	Q100 Rated 10A/150V	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) 115V (2) 22V (3) 112V (4) 122V

5	Input Capacitor Voltage	C5 Rated: 82 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) 448V (3) 448V (4) 440V
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) 12.4V (2) 12.5V (3) 12.2V (4) 12.4V

SAFETY TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	WITHSTAND VOLTAGE	I/P-O/P: 3.75 KVAC/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: 3.077mA I/P-FG: 3.062mA O/P-FG: 3.813mA 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: >9999M 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	14m 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-150-H 1. ROOM AMBIENT BURN-IN: 2 HRS I/P: 230VAC O/P: FULL LOAD Ta= 24.5℃ 2. HIGH AMBIENT BURN-IN: 2 HRS I/P: 230VAC O/P: FULL LOAD Ta=56.3℃ <table><thead><tr><th>NO</th><th>Position</th><th>ROOM AMBIENT Ta= 24.5 °C</th><th>HIGH AMBIENT Ta=56.3 °C</th></tr></thead><tbody><tr><td>1</td><td>RTH2</td><td>67.6℃</td><td>91.3℃</td></tr><tr><td>2</td><td>C2</td><td>61.5℃</td><td>87.0℃</td></tr><tr><td>3</td><td>LF1</td><td>61.4℃</td><td>86.6℃</td></tr><tr><td>4</td><td>C9</td><td>62.3℃</td><td>88.7℃</td></tr><tr><td>5</td><td>BD1</td><td>63.2℃</td><td>89.5℃</td></tr><tr><td>6</td><td>ZNR3</td><td>62.0℃</td><td>88.3℃</td></tr><tr><td>7</td><td>L2</td><td>64.7℃</td><td>90.3℃</td></tr><tr><td>8</td><td>C10</td><td>64.0℃</td><td>89.7℃</td></tr><tr><td>9</td><td>Q1</td><td>63.1℃</td><td>89.1℃</td></tr><tr><td>10</td><td>D2</td><td>65.5℃</td><td>91.4℃</td></tr><tr><td>11</td><td>C5</td><td>68.8℃</td><td>94.1℃</td></tr><tr><td>12</td><td>C51</td><td>67.6℃</td><td>93.0℃</td></tr><tr><td>13</td><td>D1</td><td>65.0℃</td><td>91.5℃</td></tr><tr><td>14</td><td>Q5</td><td>65.0℃</td><td>91.5℃</td></tr><tr><td>15</td><td>Q6</td><td>68.1℃</td><td>94.6℃</td></tr><tr><td>16</td><td>U1</td><td>60.2℃</td><td>85.9℃</td></tr><tr><td>17</td><td>U2</td><td>70.1℃</td><td>96.0℃</td></tr><tr><td>18</td><td>C15</td><td>67.7℃</td><td>93.3℃</td></tr><tr><td>19</td><td>Q4</td><td>70.7℃</td><td>95.8℃</td></tr><tr><td>20</td><td>T1</td><td>80.9℃</td><td>106.9℃</td></tr><tr><td>21</td><td>Q100</td><td>72.8℃</td><td>99.5℃</td></tr><tr><td>22</td><td>Q101</td><td>68.8℃</td><td>95.7℃</td></tr><tr><td>23</td><td>C202</td><td>66.5℃</td><td>92.7℃</td></tr><tr><td>24</td><td>C105</td><td>67.4℃</td><td>93.4℃</td></tr><tr><td>25</td><td>C106</td><td>66.1℃</td><td>92.1℃</td></tr><tr><td>26</td><td>LF100</td><td>61.7℃</td><td>88.1℃</td></tr><tr><td>27</td><td>C109</td><td>59.9℃</td><td>86.2℃</td></tr><tr><td>28</td><td>RTH3</td><td>63.9℃</td><td>89.7℃</td></tr><tr><td>29</td><td>TC</td><td>57.3℃</td><td>83.2℃</td></tr></tbody></table>			NO	Position	ROOM AMBIENT Ta= 24.5 °C	HIGH AMBIENT Ta=56.3 °C	1	RTH2	67.6℃	91.3℃	2	C2	61.5℃	87.0℃	3	LF1	61.4℃	86.6℃	4	C9	62.3℃	88.7℃	5	BD1	63.2℃	89.5℃	6	ZNR3	62.0℃	88.3℃	7	L2	64.7℃	90.3℃	8	C10	64.0℃	89.7℃	9	Q1	63.1℃	89.1℃	10	D2	65.5℃	91.4℃	11	C5	68.8℃	94.1℃	12	C51	67.6℃	93.0℃	13	D1	65.0℃	91.5℃	14	Q5	65.0℃	91.5℃	15	Q6	68.1℃	94.6℃	16	U1	60.2℃	85.9℃	17	U2	70.1℃	96.0℃	18	C15	67.7℃	93.3℃	19	Q4	70.7℃	95.8℃	20	T1	80.9℃	106.9℃	21	Q100	72.8℃	99.5℃	22	Q101	68.8℃	95.7℃	23	C202	66.5℃	92.7℃	24	C105	67.4℃	93.4℃	25	C106	66.1℃	92.1℃	26	LF100	61.7℃	88.1℃	27	C109	59.9℃	86.2℃	28	RTH3	63.9℃	89.7℃	29	TC	57.3℃	83.2℃
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1	RTH2	67.6℃	91.3℃																																																																																																																									
2	C2	61.5℃	87.0℃																																																																																																																									
3	LF1	61.4℃	86.6℃																																																																																																																									
4	C9	62.3℃	88.7℃																																																																																																																									
5	BD1	63.2℃	89.5℃																																																																																																																									
6	ZNR3	62.0℃	88.3℃																																																																																																																									
7	L2	64.7℃	90.3℃																																																																																																																									
8	C10	64.0℃	89.7℃																																																																																																																									
9	Q1	63.1℃	89.1℃																																																																																																																									
10	D2	65.5℃	91.4℃																																																																																																																									
11	C5	68.8℃	94.1℃																																																																																																																									
12	C51	67.6℃	93.0℃																																																																																																																									
13	D1	65.0℃	91.5℃																																																																																																																									
14	Q5	65.0℃	91.5℃																																																																																																																									
15	Q6	68.1℃	94.6℃																																																																																																																									
16	U1	60.2℃	85.9℃																																																																																																																									
17	U2	70.1℃	96.0℃																																																																																																																									
18	C15	67.7℃	93.3℃																																																																																																																									
19	Q4	70.7℃	95.8℃																																																																																																																									
20	T1	80.9℃	106.9℃																																																																																																																									
21	Q100	72.8℃	99.5℃																																																																																																																									
22	Q101	68.8℃	95.7℃																																																																																																																									
23	C202	66.5℃	92.7℃																																																																																																																									
24	C105	67.4℃	93.4℃																																																																																																																									
25	C106	66.1℃	92.1℃																																																																																																																									
26	LF100	61.7℃	88.1℃																																																																																																																									
27	C109	59.9℃	86.2℃																																																																																																																									
28	RTH3	63.9℃	89.7℃																																																																																																																									
29	TC	57.3℃	83.2℃																																																																																																																									
2	LOW TEMPERATURE TURN ON TEST	TURN ON AFTER 2 HOUR	I/P: 305VAC/100VAC O/P: FULL LOAD Ta= -45℃/-35℃	TEST: OK																																																																																																																								



150W Constant Power Mode LED Driver

XLG-150 series

3	HIGH HUMIDITY HIGH TEMPERATURE HIGH VOLTAGE TURN ON TEST	AFTER 12 HOURS IN CHAMBER ON CONTROL 55 °C NO DAMAGE	I/P: 305VAC O/P: FULL LOAD Ta=55 °C HUMIDITY= 95% R.H	TEST: OK
4	TEMPERATURE COEFFICIENT	±0.06%/°C (0~60°C)	I/P: 230 VAC O/P: FULL LOAD	±0.001%/°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~+55°C	1. Thermal shock Temperature: -45°C ~ +60°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-150-H: SUPPOSE C105 IS THE MOST CRITICAL COMPONENT (1) I/P: 230VAC O/P: FULL LOAD Tc= 70 °C LIFE TIME (2) I/P: 230VAC O/P: 75% LOAD Tc= 70 °C LIFE TIME (3) I/P: 230VAC O/P: 50% LOAD Tc= 70 °C LIFE TIME		(1) 80562 HRS (2) 103970 HRS (3) 108592 HRS
9	MTBF	Conducted by Parts Stress Analysis Prediction 712.17K hrs min. Telcordia SR-332 (Bellcore) 213.3K 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