



Test Report: XLG-25

25W Constant Current 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

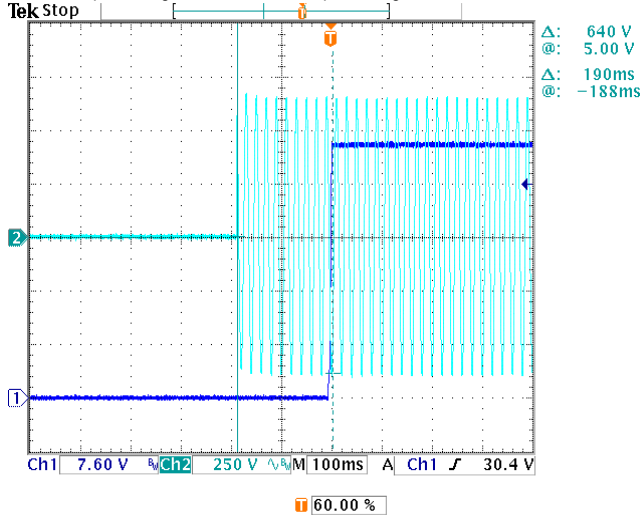
DESIGN VERIFY TEST

OUTPUT FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	CONSTANT CURRENT REGION	22V~54V	I/P: 230VAC O/P: LED MODE Ta: 25°C	15.5V~55.4V
2	OUTPUT CURRENT ADJUST RANGE	0.25~1.05A	I/P: 230VAC O/P: SETTING Ta: 25°C	0.203 A~ 1.119 A
3	CURRENT RIPPLE	5.0% max.@rated current	I/P: 230VAC O/P: FULL/MIN LOAD Ta: 25°C	2.78%
4	OPEN CIRCUIT VOLTAGE (max)	57V	I/P: 230VAC O/P: NO LOAD Ta: 25°C	55.9V
5	SET UP TIME	500ms/230VAC 500ms/115VAC	I/P: 230 VAC I/P: 115 VAC O/P: FULL LOAD Ta: 25°C	190ms/230VAC 170ms/115VAC

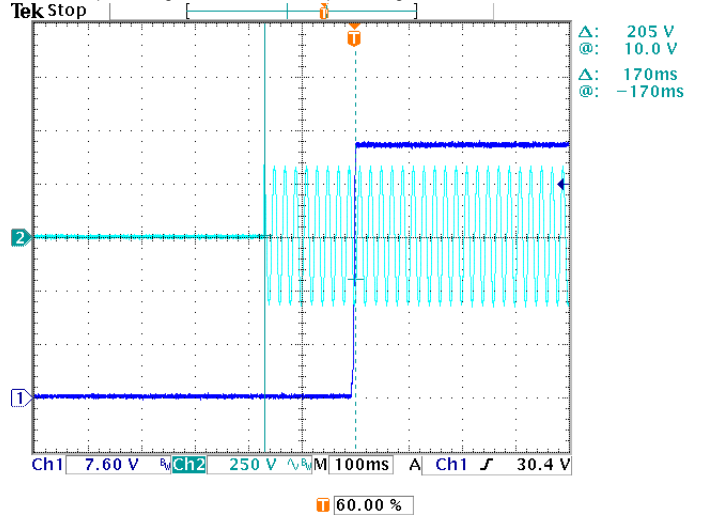
INPUT=230VAC/50HZ @ FULL LOAD

CH1: Output Voltage CH2: AC Input Voltage



INPUT=115VAC/60HZ @ 75% LOAD

CH1: Output Voltage CH2: AC Input Voltage





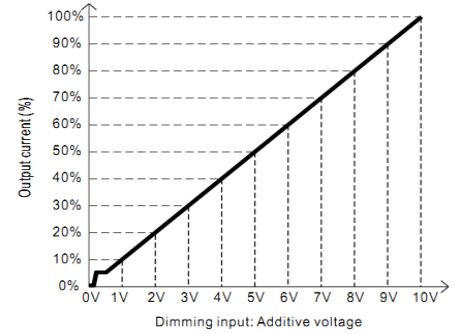
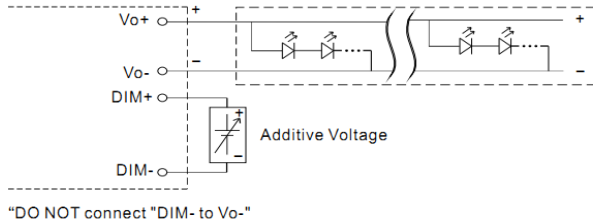
6	RISE TIME	100ms/230VAC 100ms/115VAC	I/P: 230 VAC I/P: 115 VAC O/P: FULL LOAD Ta: 25°C	4.8ms/230VAC 4.8ms/115VAC
<p>INPUT=230VAC/50HZ @ FULL LOAD</p> <p>CH1: Output Voltage CH2: AC Input Voltage</p> <p>Δ: 35.7 V @: 152mV Δ: 4.80ms @: -4.00ms</p> <p>Ch1 7.60 V 20.0ms A Ch1 30.4 V</p>		<p>INPUT=115VAC/60HZ @ 75% LOAD</p> <p>CH1: Output Voltage CH2: AC Input Voltage</p> <p>Δ: 30.7 V @: 3.50 V Δ: 4.80ms @: -4.00ms</p> <p>Ch1 7.60 V 20.0ms A Ch1 30.4 V</p>		
7	CONSTANT POWER	O/P: 25W	I/P: 230 VAC O/P: $V_o \times I_o$	TEST: OK

8 DIMMING OPERATION

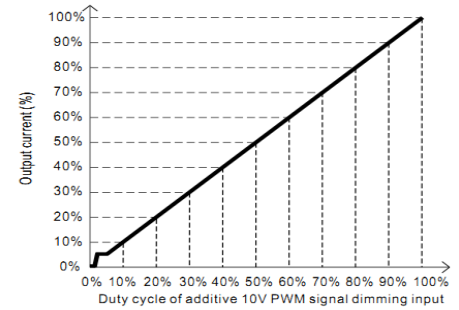
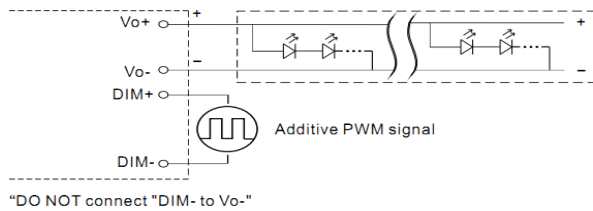
※ 3 in 1 dimming function (for AB-Type)

- 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:100uA(typ.)

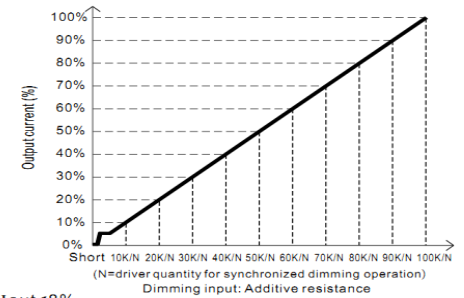
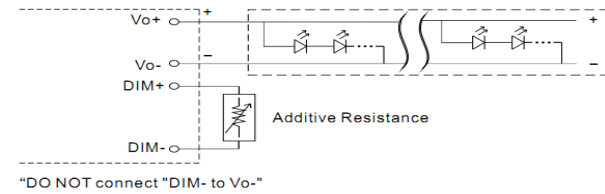
◎ Applying additive 0 ~ 10VDC



◎ 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 $0k\ \Omega$ or 0Vdc, or 10V PWM signal with 0% duty cycle.

I/P: 230 VAC
 O/P: DIMMING TEST
 Ta: 25°C

	v	Short	1V	2V	3V	4V	5V	6V	7V	8V	9V	10V	OPEN
1	Output Current	0	0.044	0.093	0.139	0.185	0.240	0.290	0.349	0.401	0.453	0.501	0.505
	%	0%	8.80%	18.60%	27.80%	37.00%	48.00%	58.00%	69.80%	80.20%	90.60%	100.20%	101.00%
2	PWM(100Hz)	0V	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	OPEN
	Output Current	0	0.041	0.088	0.133	0.180	0.231	0.281	0.335	0.391	0.450	0.499	0.499
	%	0%	8.20%	17.6%	26.60%	36.00%	46.20%	56.20%	67.00%	78.20%	90.00%	99.80%	99.80%
3	R	0%	10K	20K	30K	40K	50K	60K	70K	80K	90K	100K	OPEN
	Output Current	0	0.042	0.085	0.135	0.181	0.235	0.280	0.334	0.391	0.444	0.499	0.500
	%	0%	8.40%	17.00%	27.00%	36.20%	47.00%	56.00%	66.80%	78.20%	88.80%	99.80%	100.00%

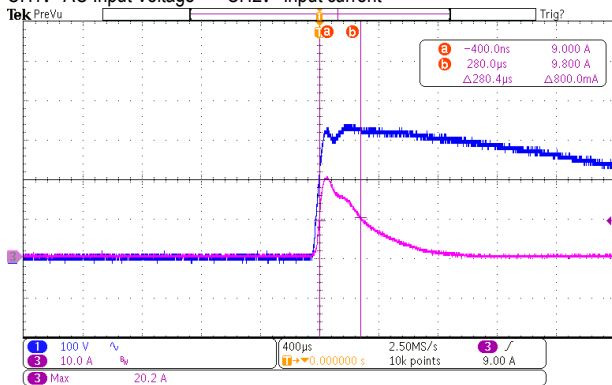
TEST RESULT: OK

INPUT FUNCTION TEST

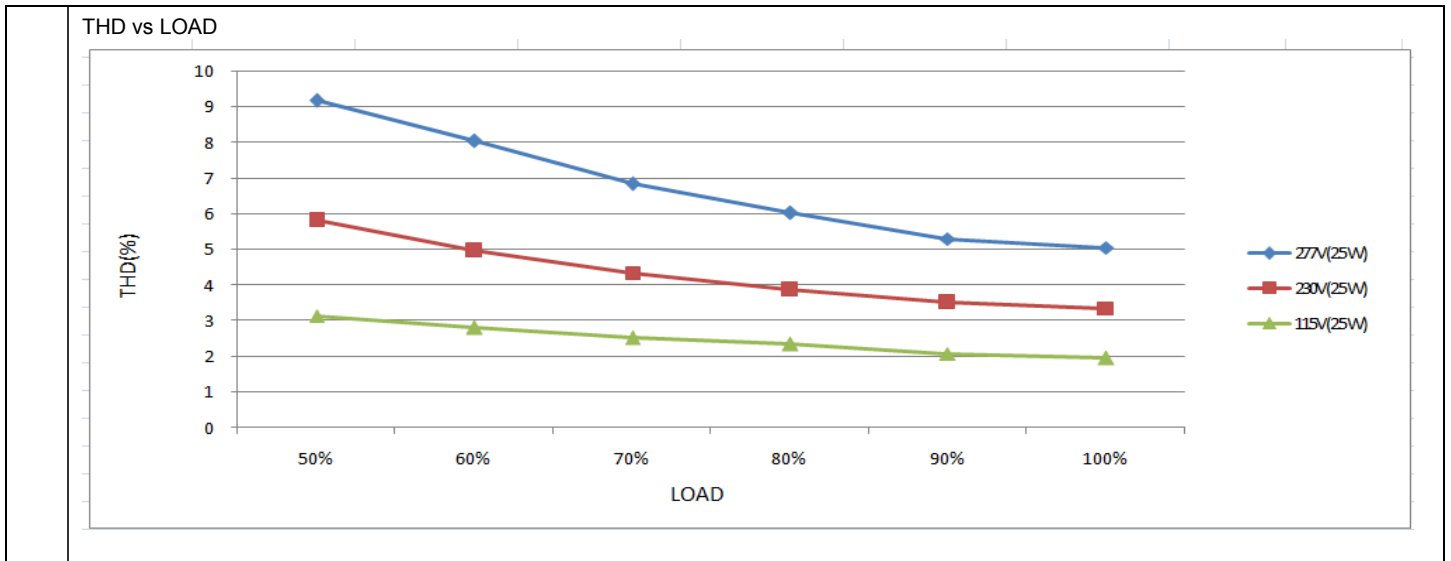
NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	INPUT VOLTAGE RANGE	90VAC~305VAC	I/P: TESTING O/P: FULL LOAD Ta: 25°C	90V~305V
			I/P: (1)LOW-LINE-3V=87 V HIGH-LINE+10V=315 V O/P: FULL/MIN LOAD ON: 30 Sec OFF: 30 Sec 10MIN (2)230VAC ON: 0.5 Sec OFF: 0.5 Sec 20MIN (POWER ON/OFF NO DAMAGE)	TEST: OK
2	INPUT FREQUENCY RANGE	47HZ ~63 HZ NO DAMAGE	I/P: 90 VAC ~305 VAC O/P: FULL~MIN LOAD Ta: 25°C	TEST: OK
3	AC CURRENT	0.29A/115VAC 0.15A/230VAC 0.13A/277VAC	I/P: 115 VAC I/P: 230 VAC I/P: 277 VAC O/P: FULL LOAD Ta: 25°C	I =0.254A/ 115VAC I =0.126A/ 230VAC I =0.108A/ 277VAC
4	LEAKAGE CURRENT	< 0.75mA / 277VAC	I/P: 277 VAC O/P: NO LOAD Ta: 25°C	L-CASE: 0.242 mA N-CASE: 0.242 mA
5	NO LOAD/STANDBY POWER CONSUMPTION	NO LOAD POWER CONSUMPTION <0.5W for A, <0.75W for I series STANDBY POWER CONSUMPTION <0.5W for AB	I/P: 230VAC O/P: NO LOAD/STANDBY Ta: 25°C	0.432W for A 0.587W for I 0.32W for AB
6	INRUSH CURRENT(Typ)	50A/230VAC Twidth =350 us measured at 50% Ipeak COLD START	I/P: 230 VAC O/P: FULL LOAD Ta: 25°C	I =20.2A/ 230VAC Twidth =280.4us

INPUT=230VAC/50HZ @ FULL LOAD

CH1: AC Input Voltage CH2: Input current



7	EFFICIENCY(Typ)	88%	I/P: 230VAC O/P: FULL LOAD Ta: 25°C	88.29%																																												
<p>EFFICIENCY vs LOAD</p> <table border="1"> <caption>Efficiency vs Load Data</caption> <thead> <tr> <th>LOAD (%)</th> <th>277V (25W) (%)</th> <th>230V (25W) (%)</th> <th>115V (25W) (%)</th> </tr> </thead> <tbody> <tr><td>10%</td><td>58</td><td>58</td><td>58</td></tr> <tr><td>20%</td><td>73</td><td>72</td><td>73</td></tr> <tr><td>30%</td><td>79</td><td>78</td><td>79</td></tr> <tr><td>40%</td><td>82</td><td>81</td><td>82</td></tr> <tr><td>50%</td><td>84</td><td>83</td><td>84</td></tr> <tr><td>60%</td><td>86</td><td>85</td><td>86</td></tr> <tr><td>70%</td><td>87</td><td>86</td><td>87</td></tr> <tr><td>80%</td><td>87.5</td><td>87</td><td>87.5</td></tr> <tr><td>90%</td><td>88</td><td>87.5</td><td>88</td></tr> <tr><td>100%</td><td>88.29</td><td>88</td><td>88</td></tr> </tbody> </table>					LOAD (%)	277V (25W) (%)	230V (25W) (%)	115V (25W) (%)	10%	58	58	58	20%	73	72	73	30%	79	78	79	40%	82	81	82	50%	84	83	84	60%	86	85	86	70%	87	86	87	80%	87.5	87	87.5	90%	88	87.5	88	100%	88.29	88	88
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8	POWER FACTOR	0.92/277 VAC 0.95/230 VAC 0.97/115 VAC	I/P: 115 VAC I/P: 230 VAC I/P: 277 VAC O/P: FULL LOAD Ta: 25°C	PF=0.999 /115VAC PF=0.985 /230VAC PF=0.959 /277VAC																																												
<p>P.F vs LOAD</p> <table border="1"> <caption>P.F vs Load Data</caption> <thead> <tr> <th>LOAD (%)</th> <th>277V (25W)</th> <th>230V (25W)</th> <th>115V (25W)</th> </tr> </thead> <tbody> <tr><td>10%</td><td>0.45</td><td>0.60</td><td>0.95</td></tr> <tr><td>20%</td><td>0.63</td><td>0.80</td><td>0.97</td></tr> <tr><td>30%</td><td>0.75</td><td>0.90</td><td>0.98</td></tr> <tr><td>40%</td><td>0.84</td><td>0.93</td><td>0.985</td></tr> <tr><td>50%</td><td>0.88</td><td>0.94</td><td>0.99</td></tr> <tr><td>60%</td><td>0.91</td><td>0.95</td><td>0.99</td></tr> <tr><td>70%</td><td>0.93</td><td>0.96</td><td>0.99</td></tr> <tr><td>80%</td><td>0.94</td><td>0.965</td><td>0.99</td></tr> <tr><td>90%</td><td>0.95</td><td>0.97</td><td>0.99</td></tr> <tr><td>100%</td><td>0.95</td><td>0.97</td><td>0.99</td></tr> </tbody> </table>					LOAD (%)	277V (25W)	230V (25W)	115V (25W)	10%	0.45	0.60	0.95	20%	0.63	0.80	0.97	30%	0.75	0.90	0.98	40%	0.84	0.93	0.985	50%	0.88	0.94	0.99	60%	0.91	0.95	0.99	70%	0.93	0.96	0.99	80%	0.94	0.965	0.99	90%	0.95	0.97	0.99	100%	0.95	0.97	0.99
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9	TOTAL HARMONIC DISTORTION	THD < 10% (@load ≥ 50%/115VAC, 230VAC; @load ≥ 75%/277VAC)	I/P: 115 VAC/50% LOAD I/P: 230 VAC/50% LOAD I/P: 277 VAC/75% LOAD Ta: 25°C	THD=3.14% @50% load /115VAC THD=5.82% @50% load /230VAC THD=6.43% @75% load /277VAC																																												



PROTECTION FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	OVER TEMPERATURE PROTECTION	NO DAMAGE	I/P: 90VAC I/P: 305VAC O/P: FULL LOAD	O.T.P. Active PROTECTION TYPE : Hiccup mode, recovers automatically after fault condition is removed
2	OVER POWER PROTECTION	110%-150%	I/P: 90VAC I/P: 230VAC I/P: 305VAC O/P: FULL LOAD Ta: 25°C	134.1%/ 305VAC 133.3%/ 230VAC 133.75%/ 90VAC PROTECTION TYPE: recovers automatically after fault condition is removed
3	SHORT PROTECTION	SHORT EVERY OUTPUT 1 HOUR NO DAMAGE	I/P: 305 VAC I/P: 90 VAC O/P: FULL LOAD Ta:25°C	NO DAMAGE PROTECTION TYPE : Constant current limiting, recovers automatically after fault condition is removed
4	INPUT OVP (for XLG-25I only)	320 ~ 370VAC (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 Power Transistor (D to S) or (C to E) Peak Voltage	Q 2 Rated 4.5A/800V	I/P: High-Line +3V =308V O/P: (1) FULL LOAD Turn on (2) Output Short (3) FULL LOAD continue Ta: 25°C	(1) 684 V (2) 500 V (3) 678 V
2	P.F.C Transistor (D to S) or (C to E) Peak Voltage	Q1 Rated: 12.8A/700V	I/P: High-Line +3V =308V O/P: (1) FULL LOAD Turn on (2) Output Short (3) FULL LOAD continue Ta: 25°C	(1) 468V (2) 460V (4)468 V

3	P.F.C DIODE	D4 Rated: 3A/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) 456V (2) 488V (3)464 V
4	Diode Peak Voltage	D100 Rated: 10A/200V	I/P: High-Line +3V =308V O/P: (1) FULL LOAD Turn on (2) Output Short (3) FULL LOAD continue Ta: 25°C	(1) 163 V (2) 133 V (3) 159 V
5	Input Capacitor	C5 Rated: 22u /500V	I/P: High-Line +3V =308 V O/P: (1) FULL LOAD input on/off (2) NO LOAD input on /Off (3) FULL LOAD /NO LOAD Change Ta: 25°C	(1) 476 V (2) 484 V (3) 484 V
6	Control IC	U1 Rated 27V (MAX.)	I/P: High-Line +3V =308 V O/P: (1) FULL LOAD (2) Output Short (3) O.P.P Ta: 25°C	(1)12.5 V (2)13.7 V (3)12.3 V

SAFETY TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	WITHSTAND VOLTAGE	I/P-O/P: 3.75KVAC/min I/P-FG: 2.0KVAC/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: 2.608 mA I/P-FG: 2.170 mA O/P-FG: 2.658 mA 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: >9999 MΩ I/P-FG: >9999 MΩ O/P-FG: >9999 MΩ
3	GROUNDING CONTINUITY	FG(PE) TO CHASSIS OR TRACE < 100 mΩ	40A / 2min Ta:25°C	10mΩ

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 AIR: 8KV Contact: 4KV	I/P: 230 VAC/50HZ O/P: FULL LOAD Ta: 25°C	PASS
5	E.F.T	EN61000-4-4 INPUT: 1KV	I/P: 230VAC/50HZ O/P: FULL LOAD Ta: 25°C	PASS
6	SURGE	EN61000-4-5 L-N: 4KV L,N-PE: 6KV	I/P: 230VAC/50HZ O/P: FULL LOAD L-N: 4KV L,N-PE: 6KV Ta: 25°C	PASS
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-25-AB 1. ROOM AMBIENT BURN-IN: 2 HRS I/P: 230VAC O/P: FULL LOAD Ta=24.8 °C 2. HIGH AMBIENT BURN-IN: 2 HRS I/P: 230VAC O/P: FULL LOAD Ta=62.7 °C																																																																																																						
				<table border="1"> <thead> <tr> <th>NO</th> <th>Position</th> <th>ROOM AMBIENT Ta=24.8 °C</th> <th>HIGH AMBIENT Ta=62.7 °C</th> </tr> </thead> <tbody> <tr><td>1</td><td>ZR1</td><td>39.6°C</td><td>76.6°C</td></tr> <tr><td>2</td><td>RT1</td><td>43.2°C</td><td>79.6°C</td></tr> <tr><td>3</td><td>C1</td><td>42.6°C</td><td>80.1°C</td></tr> <tr><td>4</td><td>LF1</td><td>41.1°C</td><td>78.6°C</td></tr> <tr><td>5</td><td>BD1</td><td>41.7°C</td><td>78.9°C</td></tr> <tr><td>6</td><td>ZR2</td><td>40.0°C</td><td>77.2°C</td></tr> <tr><td>7</td><td>C8</td><td>42.0°C</td><td>79.7°C</td></tr> <tr><td>8</td><td>C2</td><td>41.3°C</td><td>79.0°C</td></tr> <tr><td>9</td><td>Q1</td><td>43.0°C</td><td>80.4°C</td></tr> <tr><td>10</td><td>Q2</td><td>57.1°C</td><td>96.5°C</td></tr> <tr><td>11</td><td>C5</td><td>44.3°C</td><td>81.9°C</td></tr> <tr><td>12</td><td>D3</td><td>40.2°C</td><td>76.4°C</td></tr> <tr><td>13</td><td>D6</td><td>48.3°C</td><td>87.1°C</td></tr> <tr><td>14</td><td>U1</td><td>41.3°C</td><td>78.8°C</td></tr> <tr><td>15</td><td>U2</td><td>42.9°C</td><td>80.3°C</td></tr> <tr><td>16</td><td>Q50</td><td>45.3°C</td><td>83.2°C</td></tr> <tr><td>17</td><td>C51</td><td>44.1°C</td><td>81.7°C</td></tr> <tr><td>18</td><td>T1</td><td>45.2°C</td><td>82.6°C</td></tr> <tr><td>19</td><td>D100</td><td>46.6°C</td><td>81.6°C</td></tr> <tr><td>20</td><td>C101</td><td>42.6°C</td><td>79.1°C</td></tr> <tr><td>21</td><td>C110</td><td>41.0°C</td><td>77.6°C</td></tr> <tr><td>22</td><td>U100</td><td>41.5°C</td><td>78.4°C</td></tr> <tr><td>23</td><td>RT2</td><td>41.8°C</td><td>78.7°C</td></tr> <tr><td>24</td><td>TC</td><td>39.1°C</td><td>76.0°C</td></tr> </tbody> </table>	NO	Position	ROOM AMBIENT Ta=24.8 °C	HIGH AMBIENT Ta=62.7 °C	1	ZR1	39.6°C	76.6°C	2	RT1	43.2°C	79.6°C	3	C1	42.6°C	80.1°C	4	LF1	41.1°C	78.6°C	5	BD1	41.7°C	78.9°C	6	ZR2	40.0°C	77.2°C	7	C8	42.0°C	79.7°C	8	C2	41.3°C	79.0°C	9	Q1	43.0°C	80.4°C	10	Q2	57.1°C	96.5°C	11	C5	44.3°C	81.9°C	12	D3	40.2°C	76.4°C	13	D6	48.3°C	87.1°C	14	U1	41.3°C	78.8°C	15	U2	42.9°C	80.3°C	16	Q50	45.3°C	83.2°C	17	C51	44.1°C	81.7°C	18	T1	45.2°C	82.6°C	19	D100	46.6°C	81.6°C	20	C101	42.6°C	79.1°C	21	C110	41.0°C	77.6°C	22	U100	41.5°C	78.4°C	23	RT2	41.8°C	78.7°C	24	TC	39.1°C	76.0°C
NO	Position	ROOM AMBIENT Ta=24.8 °C	HIGH AMBIENT Ta=62.7 °C																																																																																																					
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6	ZR2	40.0°C	77.2°C																																																																																																					
7	C8	42.0°C	79.7°C																																																																																																					
8	C2	41.3°C	79.0°C																																																																																																					
9	Q1	43.0°C	80.4°C																																																																																																					
10	Q2	57.1°C	96.5°C																																																																																																					
11	C5	44.3°C	81.9°C																																																																																																					
12	D3	40.2°C	76.4°C																																																																																																					
13	D6	48.3°C	87.1°C																																																																																																					
14	U1	41.3°C	78.8°C																																																																																																					
15	U2	42.9°C	80.3°C																																																																																																					
16	Q50	45.3°C	83.2°C																																																																																																					
17	C51	44.1°C	81.7°C																																																																																																					
18	T1	45.2°C	82.6°C																																																																																																					
19	D100	46.6°C	81.6°C																																																																																																					
20	C101	42.6°C	79.1°C																																																																																																					
21	C110	41.0°C	77.6°C																																																																																																					
22	U100	41.5°C	78.4°C																																																																																																					
23	RT2	41.8°C	78.7°C																																																																																																					
24	TC	39.1°C	76.0°C																																																																																																					
2	LOW TEMPERATURE TURN ON TEST	TURN ON AFTER 2 HOUR	I/P: 305VAC/90VAC O/P: FULL LOAD Ta= -45°C / -30°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	±0.0015 %/°C (0~60°C)																																																																																																				
5	STORAGE TEMPERATURE TEST	-40~+80°C	1. Thermal shock Temperature: -45°C~ +85°C 2. Temperature change rate : 25°C / MIN 3. Dwell time low and high temperature : 30 MIN/EACH 4. Total test cycle: 100 CYCLE 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: 16 CYCLE 5. Input/Output condition: 230VAC/ FULL LOAD AC ON/OFF TEST AC on 3 sec/AC off 1 sec 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: 72min in each axis (X.Y.Z) (6) Ta: 25°C TEST: OK
8	CAPACITOR LIFE CYCLE	XLG-25-AB: SUPPOSE C101 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) 134119 HRS (2) 134850 HRS (3) 144939 HRS
9	MTBF	Conducted by Parts Stress Analysis Prediction 3931.6K hrs min. Telcordia SR-332 (Bellcore) ; 399.9K 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/ZHOUBIAO	WENFENG	LIUWY