



Test Report: XLN-60-12

60W Constant Voltage LED Driver

■ DESIGN VERIFY TEST

Output Function Test
Input Function Test
Protection Function Test
Control Function Test
Component Stress Test

■ SAFETY & E.M.C. TEST

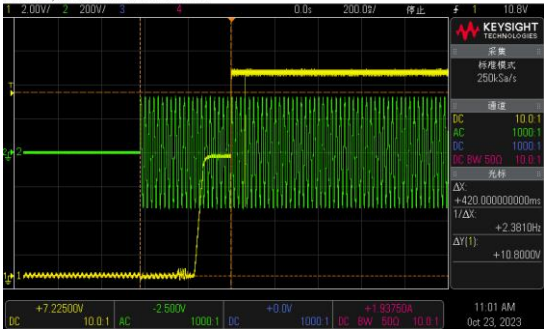
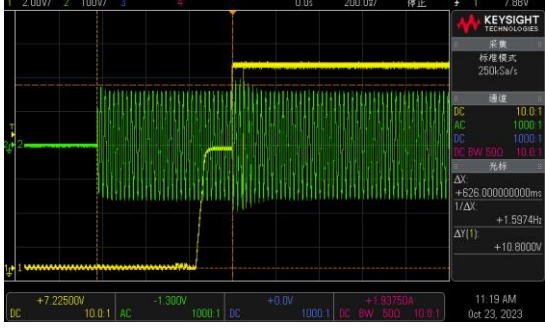
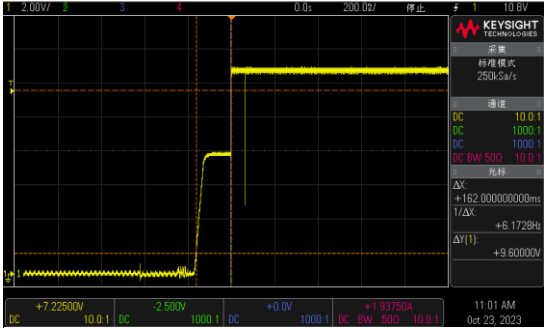
Safety Test
E.M.C. Test

■ RELIABILITY TEST

ENVIRONMENT TEST

DESIGN VERIFY TEST

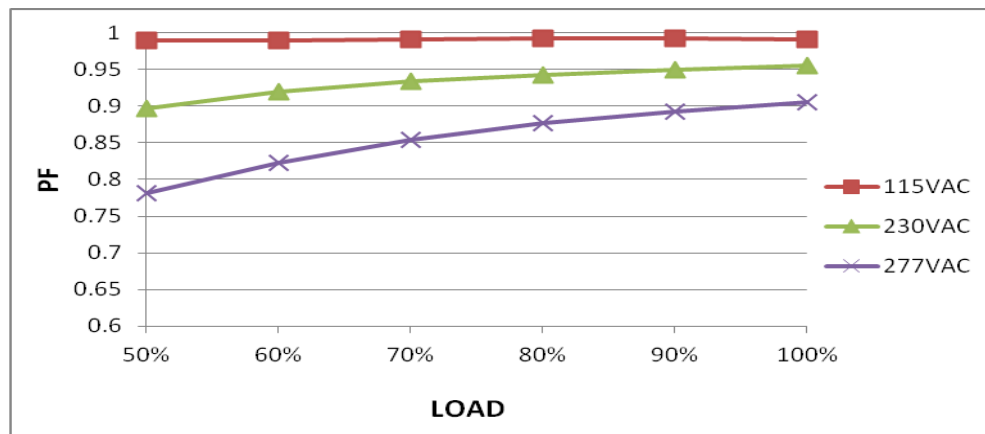
OUTPUT FUNCTION TEST

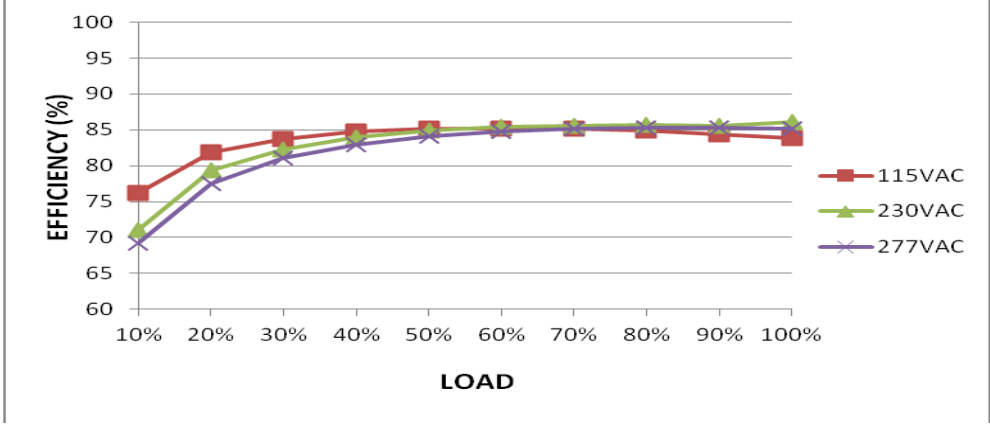
NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	OUTPUT VOLTAGE(Max) TOLERANCE	V1: -5% ~ +5% (Max)	I/P: 230VAC O/P:100%load Ta:25°C	V1: 0.93%~ 1.0%
2	OVER/UNDERSHOOT TEST	< +5%	I/P: 230VAC O/P:100% /0% Ta:25°C	1.75%
3	SET UP TIME(Max)	230VAC/ 800ms (Max) 115VAC/ 1000ms (Max)	I/P: 230 VAC I/P: 115 VAC O/P: FULL LOAD Ta:25°C	230VAC/ 420ms 115VAC/626ms
INPUT=230VAC/50HZ @ FULL LOAD CH1 : Output Voltage CH2 : AC Input Voltage  INPUT=115VAC/60HZ @ FULL LOAD CH1 : Output Voltage 				
4	RISE TIME (Max)	230VAC/ 180ms (Max) 115VAC/ 180ms (Max)	I/P: 230 VAC I/P: 115 VAC O/P: FULL LOAD Ta:25°C	230VAC/ 162ms 115VAC/162 ms
INPUT=230VAC/50HZ @ FULL LOAD CH1 : Output Voltage  INPUT=115VAC/60HZ @ FULL LOAD CH1 : Output Voltage 				

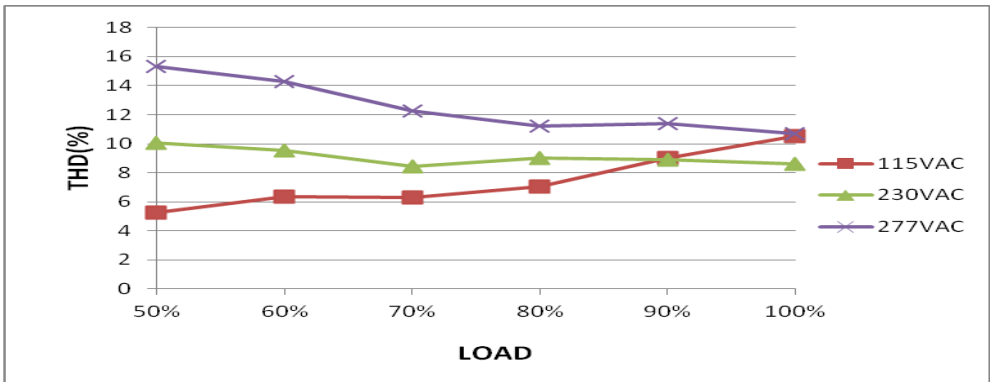
INPUT FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	INPUT VOLTAGE RANGE	110VAC~305 VAC 155VDC~400VDC	(1) I/P: TESTING O/P: FULL LOAD (2) I/P: DC TESTING (L: + N:-) O/P: FULL / 50% LOAD (3) I/P: DC TESTING (L: - N: +) O/P: FULL / 50% LOAD (4) I/P: LOW-LINE=141VDC HIGH-LINE=431VDC O/P: Dimming on/off 【for Dimming type】 Ta:25°C	(1) 100V~305V (2) 141Vdc~400Vdc/FULL LOAD 141Vdc~400Vdc/50% LOAD (3) 141Vdc~400Vdc/FULL LOAD 141Vdc~400Vdc/50% LOAD (4)OK
			I/P: LOW-LINE-3V=107 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: 90 VAC ~305VAC O/P:FULL~MIN LOAD Ta:25°C	OK
3	INPUT CURRENT (TYP)	277VAC/ 0.30 A 230 VAC/ 0.35 A 115 VAC/ 0.75 A	I/P: 277VAC/230 VAC/115 VAC O/P:FULL LOAD Ta:25°C LEDH MODE TEST	I = 0.274 A/277VAC I = 0.316 A/ 230VAC I = 0.628 A/ 115VAC
4	POWER FACTOR(TYP)	0.95/230 VAC FULL LOAD 0.95/115 VAC FULL LOAD 0.9/277 VAC FULL LOAD	I/P: 230 VAC/115VAC/277VAC O/P:FULL LOAD Ta:25°C LEDH MODE TEST	PF= 0.955 /230V/100%LOAD PF= 0.991 /115V/100%LOAD PF= 0.905 /277V/100%LOAD

P.F vs LOAD



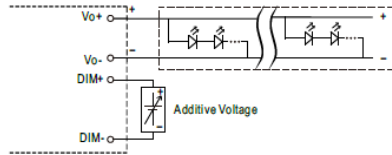
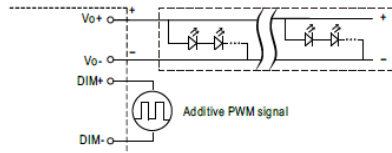
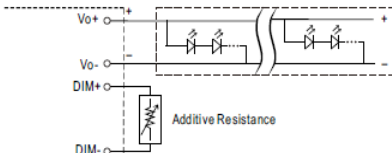
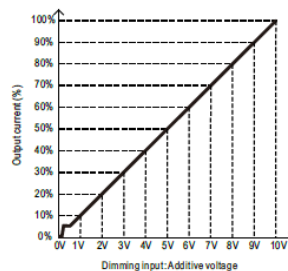
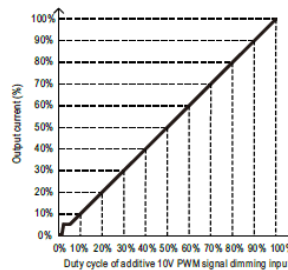
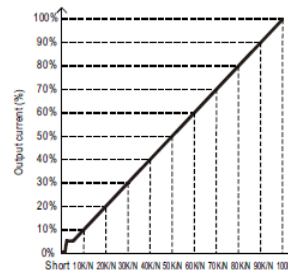
5	EFFICIENCY (TYP)	86 %	I/P: 230 VAC O/P:FULL LOAD Ta:25°C LEDH MODE TEST	86.05%
EFFICIENCY vs LOAD 				
6	INRUSH CURRENT (TYP)	230 V/ 15 A COLD START (twidh=310us measured at 50% Ipeak) COLD START	I/P: 230 VAC O/P:FULL LOAD Ta:25°C LEDH MODE TEST	I = 12.28A/ 230VAC T50=12 us
INPUT=230VAC/50HZ @ FULL LOAD CH2 : AC Input Voltage CH4 : Input current (1V=1A) 				
7	LEAKAGE CURRENT	< 0.75mA / 277VAC	I/P: 277 VAC O/P:Min LOAD Ta:25°C	L-FG : 0.018mA N-FG : 0.017 mA
8	TOTAL HARMONIC DISTORTION	THD< 20%(@load ≥ 60%/230VAC; @load ≥ 75%/277VAC); THD<10%@load 100%/230VAC	I/P : 230VAC/277VAC O/P : 60% /75% /100% LOAD Ta : 25°C	THD : 9.56% 230VAC 60% THD : 11.54% 277VAC 75% THD : 8.62% 230VAC 100%

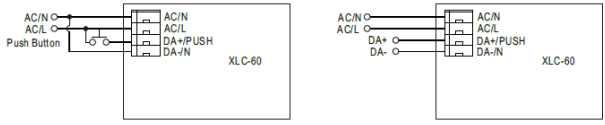
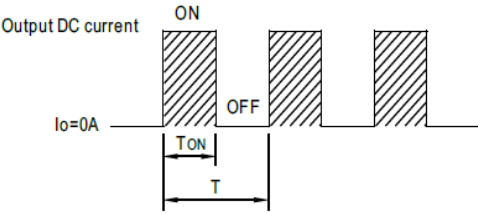
THD vs LOAD 				
9	STANDBY POWER CONSUMPTION	Standby power consumption<0.5W (Dimming OFF, only for standard version B/DA2-type)	I/P : 230VAC O/P : TESTING Ta : 25°C	0.2626W for B-type 0.314W for DA2-type

PROTECTION FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	OVER LOAD PROTECTION	105%~ 200 %	I/P: 305VAC I/P: 230VAC I/P: 110VAC O/P: TESTING Ta: 25°C	141.2%/ 305VAC 140.4%/ 230VAC 125.6%/110VAC PROTECTION TYPE : Hiccup mode, recovers automatically after fault condition is removed.
2	OVER VOLTAGE PROTECTION	14 V~ 17V	I/P: 305VAC I/P: 230VAC I/P: 110VAC O/P: MIN LOAD Ta: 25°C	15.3V/ 305VAC 15.3V/ 230VAC 15.3V/ 110VAC PROTECTION TYPE : Shut down output voltage , re-power on to recover
3	OVER TEMPERATURE PROTECTION	NO DAMAGE	I/P: 305 VAC I/P: 110 VAC O/P: FULL LOAD	O.T.P. Active PROTECTION TYPE : Shut down output voltage, recovers automatically after fault condition is removed
4	SHORT PROTECTION	SHORT EVERY OUTPUT 1 HOUR NO DAMAGE	I/P: 305VAC I/P: 110 VAC O/P: FULL LOAD Ta: 25°C	NO DAMAGE PROTECTION TYPE : Hiccup mode, recovers automatically after fault condition is removed.

CONTROL FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT									
1	DIMMING OPERATION(B-Type)	◎ B type ※ 3 in 1 dimming function - 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  "DO NOT connect "DIM- to Vo-" ◎ Applying additive 10V PWM signal (frequency range 300Hz~3KHz):  "DO NOT connect "DIM- to Vo-" ◎ Applying additive resistance: 0~100k Ω  "DO NOT connect "DIM- to Vo-"    (N=driver quantity for synchronized dimming operation) 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 0kΩ or 0Vdc, or 10V PWM signal with 0% duty cycle.											
I/P : 230 VAC ; O/P : DIMMING TEST ; Ta : 25°C													
1	Resistance value	Short	10K	20K	30K	40K	50K	60K	70K	80K	90K	100K	OPEN
	Output Current	0	0.640A	1.110A	1.630A	2.090A	2.620A	3.130A	3.660A	4.180A	4.730A	4.950A	4.950A
	Output Current duty	0%	12.80%	22.20%	32.60%	41.80%	52.40%	62.60%	73.20%	83.60%	94.60%	99.00%	99.00%
2	Dimming value	0V	1V	2V	3V	4V	5V	6V	7V	8V	9V	10V	OPEN
	Output Current	0	0.558A	1.010A	1.530A	1.990A	2.530A	3.020A	3.560A	4.100A	4.620A	4.960A	4.960A
	Output Current duty	0%	11.16%	20.20%	30.60%	39.90%	50.60%	60.40%	71.20%	82.00%	92.40%	99.20%	99.20%
3	Duty value	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	OPEN
	Output Current	0	0.550A	1.010A	1.530A	1.990A	2.520A	3.020A	3.540A	4.060A	4.590A	4.950A	4.960A
	Output Current duty	0%	11.00%	20.20%	30.60%	39.80%	50.40%	60.40%	70.80%	81.20%	91.80%	99.00%	99.20%

2	DA2 type (DALI-2 digital dimming function)	⊙ DA2 type (DALI-2 digital dimming function) ※ Input wiring diagram  ※ PUSH dimming (primary side) - The factory default dimming level is at 100%. - If the push action lasts less than 0.05 sec., it will not lead to a change for the status of the driver. - Up to 10 drivers can perform the PUSH dimming at the same time when utilizing one common push button. - The maximum length of the cable from the push button to the last driver is 20 meters. <table border="1"> <thead> <tr> <th>Action</th><th>Action duration</th><th>Function</th></tr> </thead> <tbody> <tr> <td>Short Push</td><td>0.1~1s</td><td>Turn ON-OFF the driver</td></tr> <tr> <td>Double Click</td><td>Click twice in 1.5s</td><td>Set up the dimming level to 100%</td></tr> <tr> <td>Long Push</td><td>1.5~10s</td><td>Every Long Push changes the dimming direction, dimming up or down</td></tr> </tbody> </table> I/P : 230 VAC O/P : DIMMING TEST Ta : 25°C TEST RESULT : OK	Action	Action duration	Function	Short Push	0.1~1s	Turn ON-OFF the driver	Double Click	Click twice in 1.5s	Set up the dimming level to 100%	Long Push	1.5~10s	Every Long Push changes the dimming direction, dimming up or down
Action	Action duration	Function												
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Long Push	1.5~10s	Every Long Push changes the dimming direction, dimming up or down												
3	PWM OUTPUT DIMMING PRINCIPLE	※ For 12V/24V/48V PWM style output dimming Dimming is achieved by varying the duty cycle of the output current.  Duty cycle(%) = $\frac{T_{ON}}{T} \times 100\%$ Output PWM frequency : 4kHz for B-Type fixed (Typ.) 3.2kHz for DA2-Type fixed (Typ.) I/P : 230 VAC O/P : FULL LOAD Ta : 25°C TEST RESULT : OK												

COMPONENT STRESS TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	PWM Transistor (D to S) or (C to E) Peak Voltage	Q 1 Rated 800 V/11 A	AC ON/OFF I/P: High-Line +3V =308V VDS: O/P: (1)Full Load (2)Output Short (3) Dynamic Load Full Load/ Min. Load 90%Duty/1KHz (4) Dynamic Load Full Load/ Min. Load 90%Duty/3KHz (5) Dynamic Load Full Load/ Min. Load 90%Duty/5KHz (6) Dynamic Load 100% Load/ Min. Load 50%Duty/120Hz (7)0%→400% Load. I/P: Low-Line -3V = 107V O/P: (1)Full Load (2)Output Short (3) Dynamic Load Full Load/ Min. Load 90%Duty/1KHz (4) Dynamic Load Full Load/ Min. Load 90%Duty/3KHz (5) Dynamic Load Full Load/ Min. Load 90%Duty/5KHz (6) Dynamic Load 100% Load/ Min. Load 50%Duty/120Hz (7)0%→400% Load. Ta:25°C	VDS: (1) 779V (2) 799V (3) 690V (4) 682V (5) 678V (6) 706V (7) 798V VDS: (1) 475V (2) 475V (3) 471V (4) 467V (5) 475V (6) 463V (7) 418V
2	Diode Peak Voltage	Q100 Rated 93A/150V	AC ON/OFF I/P: High-Line +3V =308 V O/P: (1)Full Load (2)Output Short (3) Dynamic Load Full Load/ Min. Load 90%Duty/1KHz (4) Dynamic Load Full Load/ Min. Load 90%Duty/3KHz (5) Dynamic Load Full Load/ Min. Load 90%Duty/5KHz (6) Dynamic Load 100% Load/ Min. Load 50%Duty/120Hz (7)0%→400% Load. (8).NO LOAD Ta:25°C	Q100: VDS: (1) 148V (2) 149V (3) 149V (4) 148V (5) 147V (6) 149V (7) 148V (8) 147V

3	Control IC Voltage Test	U1 Rated 7V~18V U100 Rated 6V~ 75V U451 Rated 1.7V-3.6V	AC ON/OFF I/P: High-Line +3V =308 V FOR C.V MODE TYPE O/P (1) FULL LOAD (2) Output Short (3) O.L.P (4) O.V.P. (5) NO LOAD VRmin.LOW LINE (6) Dim off Ta:25°C	U1 (1) 14.7V (2) 14.7V (3) 14.7V (4) 14.7V (5) 11.0V (6) 11.0V U100 (1) 18.6V (2) 19.6V (3) 18.8V (4)19.0V (5) 17.6V (6) 17.2V U451 <table><tr><td>FOR C.V MODE TYPE</td><td>Level</td><td>Ripple</td><td>Spike</td></tr><tr><td>FULL LOAD</td><td>3.288</td><td>0.59%</td><td>2.91%</td></tr><tr><td>Output Short</td><td>3.288</td><td>0.57%</td><td>3.55%</td></tr><tr><td>O.L.P</td><td>3.288</td><td>0.49%</td><td>3.55%</td></tr><tr><td>O.V.P</td><td>3.284</td><td>0.26%</td><td>0.94%</td></tr><tr><td>NO LOAD VRmin.LOW LINE</td><td>3.283</td><td>0.28%</td><td>0.64%</td></tr><tr><td>DIM OFF</td><td>3.283</td><td>0.24%</td><td>0.88%</td></tr></table>	FOR C.V MODE TYPE	Level	Ripple	Spike	FULL LOAD	3.288	0.59%	2.91%	Output Short	3.288	0.57%	3.55%	O.L.P	3.288	0.49%	3.55%	O.V.P	3.284	0.26%	0.94%	NO LOAD VRmin.LOW LINE	3.283	0.28%	0.64%	DIM OFF	3.283	0.24%	0.88%
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NO LOAD VRmin.LOW LINE	3.283	0.28%	0.64%																													
DIM OFF	3.283	0.24%	0.88%																													
4	Clamp Diode Peak Voltage	D10 Rated : 1000V/1A	AC ON/OFF I/P : High-Line +3V = 308 V O/P : (1) Dynamic Load 90%Duty/1KHz (2) Full load continue Ta : 25°C	(1)629V (2)637V																												
5	Buck Diode Peak Voltag MOS	Q110 Rated : 90A/40V Q111 Rated : 90A/40V	AC ON/OFF I/P : High-Line +3V = 308 V O/P: (1)Full Load (2)Output Short (3) Dynamic Load Full Load/ Min. Load 90%Duty/1KHz (4) Dynamic Load Full Load/ Min. Load 90%Duty/3KHz (5) Dynamic Load Full Load/ Min. Load 90%Duty/5KHz (6) Dynamic Load 100% Load/ Min. Load 50%Duty/120Hz (7)0%→400% Load. Ta:25°C	Q110 Q111 (1) 34.8V (2) 31.2V (3) 31.6V (4) 30.4V (5)32.8V (6)34.0V (7) 34.0V (1) 28.8V (2) 28.4V (3) 28.4V (4) 28.4V (5) 28.8V (6) 28.4V (7) 27.2V																												

6	Dimming MOS Only B or DA2-type	Q200 Rated : 80A/60V	AC ON/OFF I/P : High-Line +3V = 308 V O/P: (1) FULL Load (2) FULL Load continue (3) Output Short (4) DIM OFF Ta:25°C	(1) 80.4A (2) 5.22A (3) 79A (4) 0A
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SAFETY & EMC TEST

SAFETY TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	WITHSTAND VOLTAGE	I/P-O/P: 3.75KVAC/min	I/P-O/P: 4.125 KVAC/min Ta:25°C	I/P-O/P: 0.85 mA NO DAMAGE
2	ISOLATION RESISTANCE	I/P-O/P:500VDC>100MΩ	I/P-O/P: 500 VDC Ta:25°C	I/P-O/P: >99999MΩ NO DAMAGE

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 LOAD Ta:25°C	PASS
2	CONDUCTION	EN55015	I/P: 230 VAC (50HZ) O/P:FULL/50% 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	CRITERIA A
5	E.F.T	EN61000-4-4 INPUT: 1KV	I/P: 230 VAC/50HZ O/P:FULL LOAD Ta:25°C	CRITERIA A
6	SURGE	IEC61000-4-5 L-N :1KV	I/P: 230 VAC/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 : XLN-60-12B 1. ROOM AMBIENT BURN-IN : 2 HRS I/P : 230VAC O/P : FULL LOAD Ta=28.2 °C 2. HIGH AMBIENT BURN-IN : 2 HRS I/P : 230VAC O/P : FULL LOAD Ta=49.5 °C																																																																										
		<table><tr><th>NO</th><th>Position</th><th>ROOM AMBIENT Ta=28.2 °C</th><th>HIGH AMBIENT Ta=49.5°C</th></tr><tr><td>1</td><td>R37</td><td>70.9°C</td><td>100.4°C</td></tr><tr><td>2</td><td>C20</td><td>73.7°C</td><td>95.7°C</td></tr><tr><td>3</td><td>D10</td><td>75.2°C</td><td>108.8°C</td></tr><tr><td>4</td><td>U1</td><td>81.0°C</td><td>102.4°C</td></tr><tr><td>5</td><td>T1</td><td>87.0°C</td><td>103.1°C</td></tr><tr><td>6</td><td>Q100</td><td>102.5°C</td><td>104.1°C</td></tr><tr><td>7</td><td>C101</td><td>79.0°C</td><td>103.2°C</td></tr><tr><td>8</td><td>Q110</td><td>87.0°C</td><td>105.6°C</td></tr><tr><td>9</td><td>Q111</td><td>92.1°C</td><td>103.6°C</td></tr><tr><td>10</td><td>R200</td><td>91.2°C</td><td>101.2°C</td></tr><tr><td>11</td><td>L100</td><td>93.3°C</td><td>103.6°C</td></tr><tr><td>12</td><td>U100</td><td>92.0°C</td><td>103.0°C</td></tr><tr><td>13</td><td>U103</td><td>98.5°C</td><td>108.8°C</td></tr><tr><td>14</td><td>U200</td><td>97.5°C</td><td>102.4°C</td></tr><tr><td>15</td><td>U300</td><td>91.1°C</td><td>91.5°C</td></tr><tr><td>16</td><td>RTH3</td><td>90.9°C</td><td>92.9°C</td></tr><tr><td>17</td><td>TC</td><td>96.2°C</td><td>91.8°C</td></tr></table>			NO	Position	ROOM AMBIENT Ta=28.2 °C	HIGH AMBIENT Ta=49.5°C	1	R37	70.9°C	100.4°C	2	C20	73.7°C	95.7°C	3	D10	75.2°C	108.8°C	4	U1	81.0°C	102.4°C	5	T1	87.0°C	103.1°C	6	Q100	102.5°C	104.1°C	7	C101	79.0°C	103.2°C	8	Q110	87.0°C	105.6°C	9	Q111	92.1°C	103.6°C	10	R200	91.2°C	101.2°C	11	L100	93.3°C	103.6°C	12	U100	92.0°C	103.0°C	13	U103	98.5°C	108.8°C	14	U200	97.5°C	102.4°C	15	U300	91.1°C	91.5°C	16	RTH3	90.9°C	92.9°C	17	TC	96.2°C	91.8°C
NO	Position	ROOM AMBIENT Ta=28.2 °C	HIGH AMBIENT Ta=49.5°C																																																																									
1	R37	70.9°C	100.4°C																																																																									
2	C20	73.7°C	95.7°C																																																																									
3	D10	75.2°C	108.8°C																																																																									
4	U1	81.0°C	102.4°C																																																																									
5	T1	87.0°C	103.1°C																																																																									
6	Q100	102.5°C	104.1°C																																																																									
7	C101	79.0°C	103.2°C																																																																									
8	Q110	87.0°C	105.6°C																																																																									
9	Q111	92.1°C	103.6°C																																																																									
10	R200	91.2°C	101.2°C																																																																									
11	L100	93.3°C	103.6°C																																																																									
12	U100	92.0°C	103.0°C																																																																									
13	U103	98.5°C	108.8°C																																																																									
14	U200	97.5°C	102.4°C																																																																									
15	U300	91.1°C	91.5°C																																																																									
16	RTH3	90.9°C	92.9°C																																																																									
17	TC	96.2°C	91.8°C																																																																									
2	OVER LOAD BURN-IN TEST	NO DAMAGE 1 HOUR (MIN)	I/P : 230 VAC O/P : 160 % LOAD Ta : 25°C	TEST : OK																																																																								
3	LOW TEMPERATURE TURN ON TEST	TURN ON AFTER 2 HOUR	I/P : 305VAC/110VAC O/P : 100 % LOAD Ta=-30 °C	TEST : OK																																																																								
4	HIGH HUMIDITY HIGH TEMPERATURE HIGH VOLTAGE TURN ON TEST	AFTER 12 HOURS IN CHAMBER ON CONTROL 45 °C NO DAMAGE	I/P : 305 VAC O/P : FULL LOAD Ta=45 °C HUMIDITY= 95 %R.H	TEST : OK																																																																								
5	TEMPERATURE COEFFICIENT	± 0.03 %/(0°C~50°C)	I/P : 230 VAC O/P : FULL LOAD	± 0.014 %/°C(0~50°C)																																																																								

6	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 : STATIC TEST : OK
7	THERMAL SHOCK TEST	-25~45°C	1. Thermal shock Temperature : -30°C~ +50°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 : 15cycle:230V/ FULL LOAD AC ON 3sec/AC OFF 1sec TEST 1cycle:230V/ FULL LOAD Burn In Test
8	VIBRATION TEST	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. 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 : 3G (5) Test Time : 180min in each axis (X.Y.Z) (6) Ta : 25°C
9	CAPACITOR LIFE CYCLE	SUPPOSE C101 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) 36490HRS (2) 94743HRS (3) 163253HRS
10	MTBF	Conducted by Parts Stress Analysis Prediction 4053.7K hrs min. Telcordia SR-332 (Bellcore) ; 329.4K hrs min. MIL-HDBK-217F (25°C)	
11	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

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