



Test Report: XLN-60-24

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

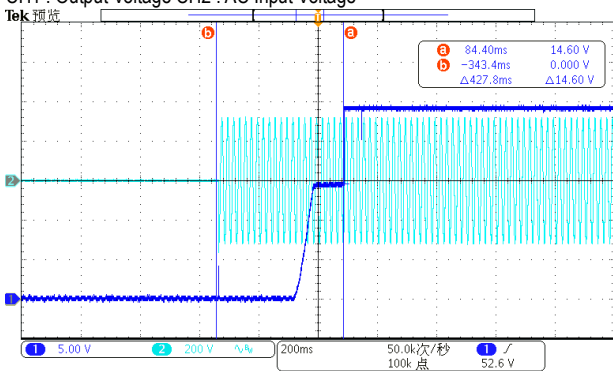
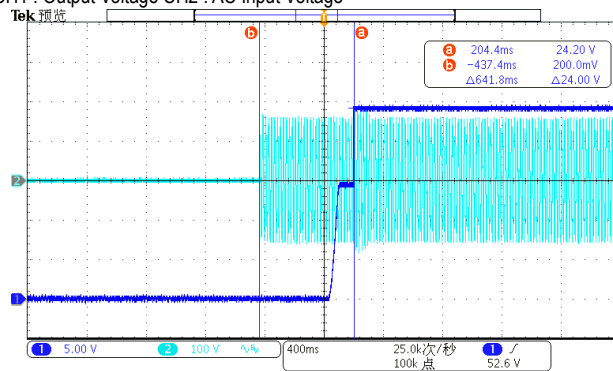
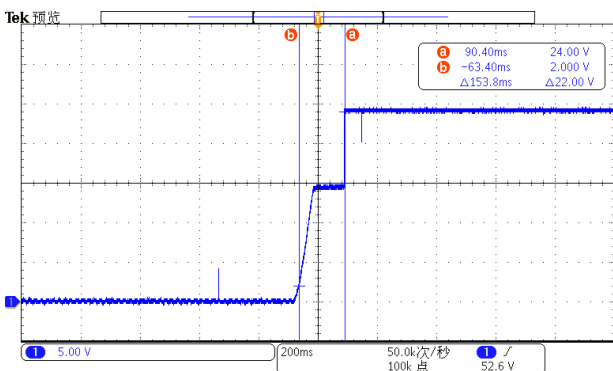
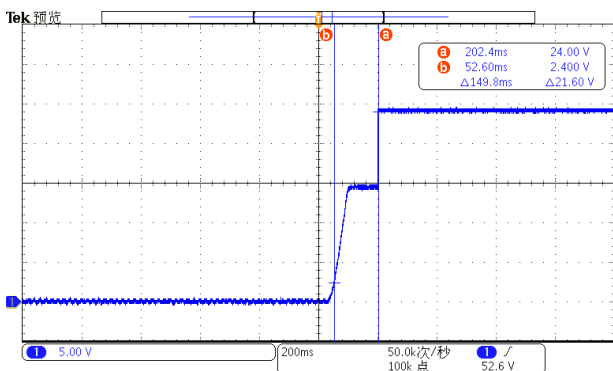
E.M.C. Test

■ RELIABILITY TEST

ENVIRONMENT TEST

DESIGN VERIFY TEST

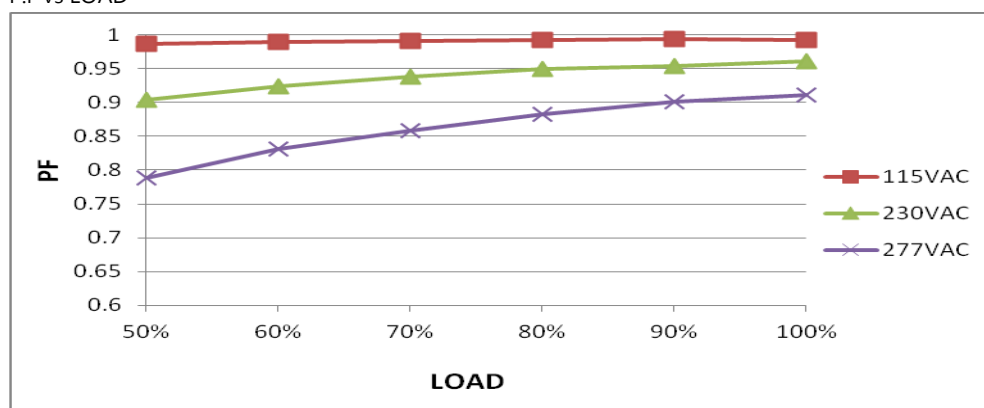
OUTPUT FUNCTION TEST

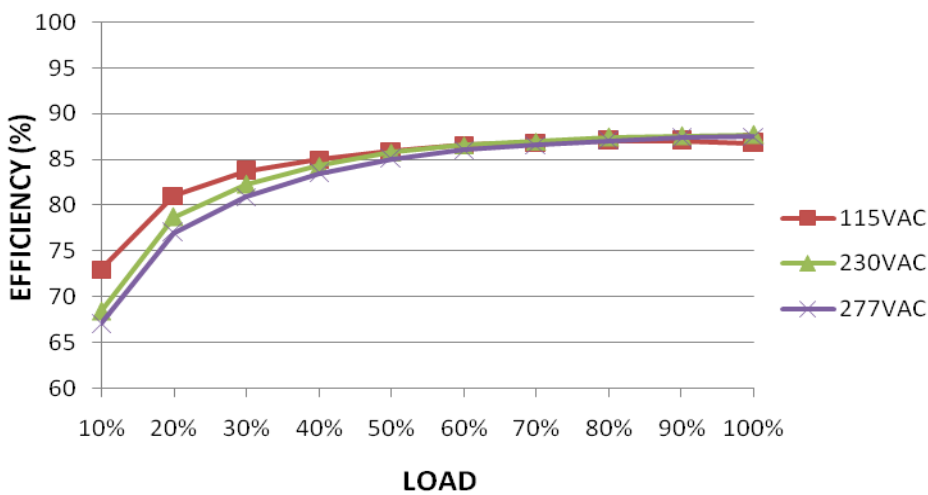
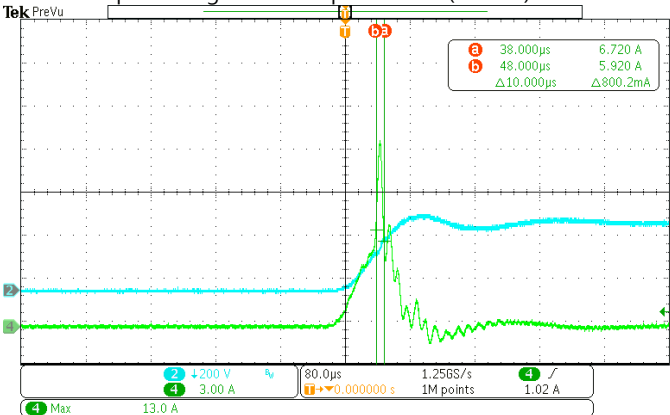
NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	OUTPUT VOLTAGE(Max) TOLERANCE	V1: -5% ~ +5% (Max)	I/P: 230VAC O/P:100%load Ta:25°C	1.5%~1.69%
2	OVER/UNDERSHOOT TEST	< +5%	I/P: 230VAC O/P:100% /0% Ta:25°C	1.6 %
3	SET UP TIME(Max)	230VAC/ 800ms (Max) 115VAC/1000 ms (Max)	I/P: 230 VAC I/P: 115 VAC O/P: FULL LOAD Ta:25°C	230VAC/427ms 115VAC/641ms
INPUT=230VAC/50HZ @ FULL LOAD CH1 : Output Voltage CH2 : AC Input Voltage  INPUT=115VAC/60HZ @ FULL LOAD CH1 : Output Voltage CH2 : AC Input 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/149ms 115VAC/153ms
INPUT=230VAC/50HZ @ FULL LOAD CH1 : Output Voltage CH2 : AC Input Voltage  INPUT=115VAC/60HZ @ FULL LOAD CH1 : Output Voltage CH2 : AC Input Voltage 				

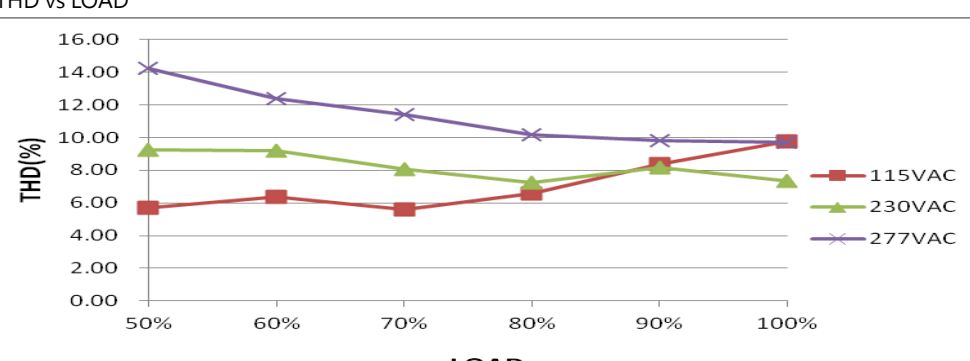
INPUT FUNCTION TEST

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) 97V~308V (2) 155Vdc~400Vdc/FULL LOAD 155Vdc~400Vdc/50% LOAD (3) 155Vdc~400Vdc/FULL LOAD 155Vdc~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 CCH MODE TEST	I= 0.27A/277VAC I =0.31A/ 230VAC I =0.61A/ 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 CCH MODE TEST	PF= 0.961/230V/100%LOAD PF= 0.992 /115V/100%LOAD PF= 0.911/277V/100%LOAD

P.F vs LOAD



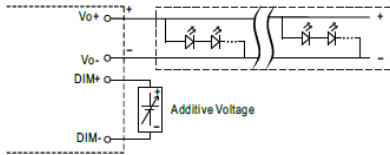
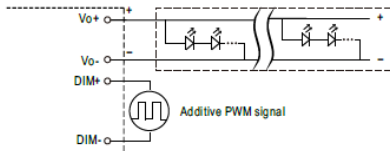
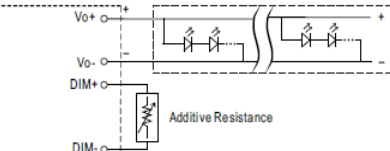
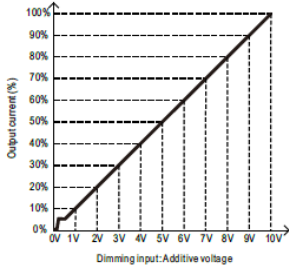
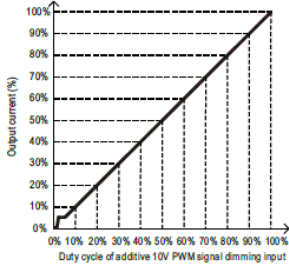
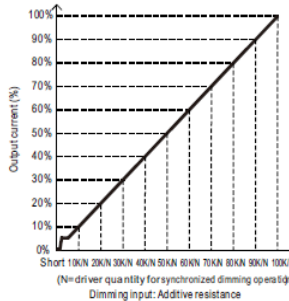
5	EFFICIENCY (TYP)	87%	I/P: 230 VAC O/P:FULL LOAD Ta:25°C CCH MODE TEST	87.18%
EFFICIENCY vs LOAD 				
6	INRUSH CURRENT (TYP)	230 V/ 15 A COLD START (twidth=310us measured at 50% Ipeak) COLD START	I/P: 230 VAC O/P:FULL LOAD Ta:25°C CCH MODE TEST	I = 13A/ 230VAC T50= 10 us
INPUT=230VAC/50HZ @ FULL LOAD 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: 0.029mA N-FG:0.023mA
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 : 9.22% 230VAC 60% THD : 10.86% 277VAC 75% THD : 7.34% 230VAC 100%

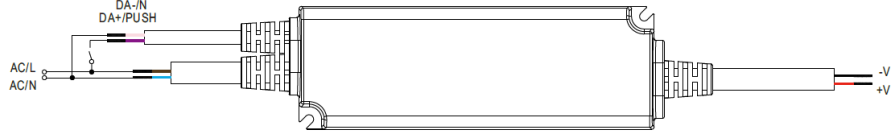
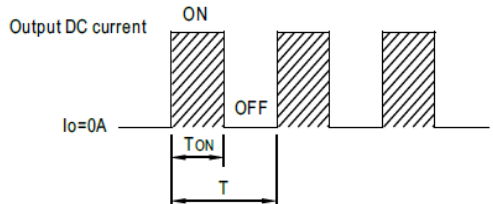
THD vs LOAD 				
9	STANDBY POWER CONSUMPTION	Standby power consumption<0.5W (Dimming OFF, only for standard version B/DA2-type)	I/P : 230VAC O/P : TESTING Ta : 25°C	0.4375W for B-type 0.4426W for DA2-type

PROTECTION FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	OVER LOAD PROTECTION	105%~ 200 %	I/P: 305VAC I/P: 230VAC I/P: 100VAC O/P:TESTING Ta:25°C	149.5%/ 305VAC 149.2%/ 230VAC 149.3%/100VAC PROTECTION TYPE : Hiccup mode, recovers automatically after fault condition is removed
2	OVER VOLTAGE PROTECTION	26V~ 35V	I/P: 305VAC I/P: 230VAC I/P: 100VAC O/P:MIN LOAD Ta:25°C	27.75V/ 305VAC 27.62V/ 230VAC 27.65V/ 90VAC PROTECTION TYPE : Shut down output voltage , re-power on to recover
3	OVER TEMPERATURE PROTECTION	NO DAMAGE	I/P: 305 VAC I/P: 100 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: 100 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 μA (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-" 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.    Short 10K 20K 30K 40K 50K 60K 70K 80K 90K 100K (N= driver quantity for synchronized dimming operation) Dimming input: Additive resistance											
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	0.38 0A	0.61 8A	0.84 0A	1.08 0A	1.37 0A	1.57 0A	1.87 0A	2.14 0A	2.44 0A	2.620 A	2.650 A
	Output Current duty	0%	14.7 3%	23.9 5%	32.5 6%	41.8 6%	53.1 0%	60.8 5%	72.4 8%	82.9 5%	94.5 7%	101.5 5%	102.7 1%
2	Dimming value	0V	1V	2V	3V	4V	5V	6V	7V	8V	9V	10V	OPEN
	Output Current	0	0.25 0A	0.45 0A	0.71 0A	0.97 0A	1.23 0A	1.50 0A	1.74 0A	2.02 0A	2.28 0A	2.570 A	2.560 A
	Output Current duty	0%	9.69 %	17.4 4%	27.5 2%	37.6 0%	47.6 7%	58.1 4%	67.4 4%	78.2 9%	88.3 7%	99.61 %	99.22 %
3	Duty value	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	OPEN
	Output Current	0	0.26 0A	0.48 0A	0.72 0A	1.02 0A	1.24 0A	1.49 0A	1.76 0A	2.00 0A	2.31 0A	2.540 A	2.580 A
	Output Current duty	0%	10.0 8%	18.6 0%	27.9 1%	39.5 3%	48.0 6%	57.7 5%	68.2 2%	77.5 2%	89.5 3%	98.45 %	100.0 0%

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												
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												
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/11A	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 = 97V 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) 782V (2) 652V (3) 778V (4) 771V (5) 775V (6) 773V (7) 633V VDS: (1) 478V (2) 296V (3) 486V (4) 483V (5) 485V (6) 479V (7) 461V
2	Diode Peak Voltage	Q100 Rated 10A/300V	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	D101: VDS: (1) 273V (2) 206V (3) 283V (4) 273V (5) 268V (6) 284V (7) 208V (8) 178V

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) 15.3V (2) 15.4V (3) 15.3V (4) 15.2V (5) 11.5V (6) 11.5V U100 (1)32.6V (2) 31.0V (3) 32.2V (4)32.2V (5) 31.0V (6) 34.6V 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>3.301</td><td>0.71%</td><td>1.523%</td></tr><tr><td>Output Short</td><td>3.302</td><td>0.65%</td><td>0.981%</td></tr><tr><td>O.L.P</td><td>3.301</td><td>0.53%</td><td>1.07%</td></tr><tr><td>O.V.P</td><td>3.302</td><td>0.39%</td><td>0.865%</td></tr><tr><td>NO LOAD VRmin.LOW LINE</td><td>3.302</td><td>0.52%</td><td>0.953%</td></tr><tr><td>DIM OFF</td><td>3.302</td><td>0.28%</td><td>1.108%</td></tr></table>	FOR C.V MODE TYPE	Level	Ripple	Spike	FULL LOAD	3.301	0.71%	1.523%	Output Short	3.302	0.65%	0.981%	O.L.P	3.301	0.53%	1.07%	O.V.P	3.302	0.39%	0.865%	NO LOAD VRmin.LOW LINE	3.302	0.52%	0.953%	DIM OFF	3.302	0.28%	1.108%
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NO LOAD VRmin.LOW LINE	3.302	0.52%	0.953%																													
DIM OFF	3.302	0.28%	1.108%																													
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)572V (2)568V																												
5	Buck Diode Peak Voltag MOS	Q110 Rated : 90A/60V Q111 Rated : 90A/60V	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 (1) 46.6V (2) 44.6V (3)58.2 V (4)58.6V (5)50.3V (6)58.7V (7)46.2V Q111 (1) 47V (2) 51V (3) 47.8V (4)47.4V (5)47.8V (6)46.2V (7)48.2V																												

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) 40.8A (2) 3.02A (3) 79.3A (4) 0.05A
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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: 2.672mA NO DAMAGE
2	ISOLATION RESISTANCE	I/P-O/P: 500VDC > 100MΩ	I/P-O/P: 500 VDC Ta:25°C	I/P-O/P: 9999MΩ 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-60-24B 1. ROOM AMBIENT BURN-IN : 2 HRS I/P : 230VAC O/P : FULL LOAD Ta=23.8 °C 2. HIGH AMBIENT BURN-IN : 2 HRS I/P : 230VAC O/P : FULL LOAD Ta=49.9 °C <table><tr><th>NO</th><th>Position</th><th>ROOM AMBIENT Ta=23.8°C</th><th>HIGH AMBIENT Ta=49.9°C</th></tr><tr><td>1</td><td>C21</td><td>68.6°C</td><td>93.1°C</td></tr><tr><td>2</td><td>R37</td><td>68.2°C</td><td>92.8°C</td></tr><tr><td>3</td><td>D10</td><td>71.5°C</td><td>96.2°C</td></tr><tr><td>4</td><td>U1</td><td>68.9°C</td><td>93.3°C</td></tr><tr><td>5</td><td>T1</td><td>71.0°C</td><td>95.5°C</td></tr><tr><td>6</td><td>Q100</td><td>75.7°C</td><td>99.3°C</td></tr><tr><td>7</td><td>C101</td><td>70.8°C</td><td>94.4°C</td></tr><tr><td>8</td><td>Q110</td><td>71.5°C</td><td>95.4°C</td></tr><tr><td>9</td><td>Q111</td><td>71.3°C</td><td>95.1°C</td></tr><tr><td>10</td><td>R111</td><td>66.7°C</td><td>90.2°C</td></tr><tr><td>11</td><td>L100</td><td>66.5°C</td><td>90.2°C</td></tr><tr><td>12</td><td>U100</td><td>72.2°C</td><td>96.0°C</td></tr><tr><td>13</td><td>U200</td><td>70.8°C</td><td>94.6°C</td></tr><tr><td>14</td><td>Q200</td><td>69.5°C</td><td>93.2°C</td></tr><tr><td>15</td><td>C143</td><td>62.0°C</td><td>85.5°C</td></tr><tr><td>16</td><td>RTH3</td><td>67.0°C</td><td>90.8°C</td></tr><tr><td>17</td><td>TC</td><td>61.3°C</td><td>84.9°C</td></tr></table>			NO	Position	ROOM AMBIENT Ta=23.8°C	HIGH AMBIENT Ta=49.9°C	1	C21	68.6°C	93.1°C	2	R37	68.2°C	92.8°C	3	D10	71.5°C	96.2°C	4	U1	68.9°C	93.3°C	5	T1	71.0°C	95.5°C	6	Q100	75.7°C	99.3°C	7	C101	70.8°C	94.4°C	8	Q110	71.5°C	95.4°C	9	Q111	71.3°C	95.1°C	10	R111	66.7°C	90.2°C	11	L100	66.5°C	90.2°C	12	U100	72.2°C	96.0°C	13	U200	70.8°C	94.6°C	14	Q200	69.5°C	93.2°C	15	C143	62.0°C	85.5°C	16	RTH3	67.0°C	90.8°C	17	TC	61.3°C	84.9°C
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2	OVER LOAD BURN-IN TEST	NO DAMAGE 1 HOUR (MIN)	I/P : 230 VAC O/P : 150.4 * 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	± 0.006 %/°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) 73775HRS (2) 127970HRS (3) 370097HRS
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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