



Test Report: XLC-25-H

25W Multiple-Stage Constant Power 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

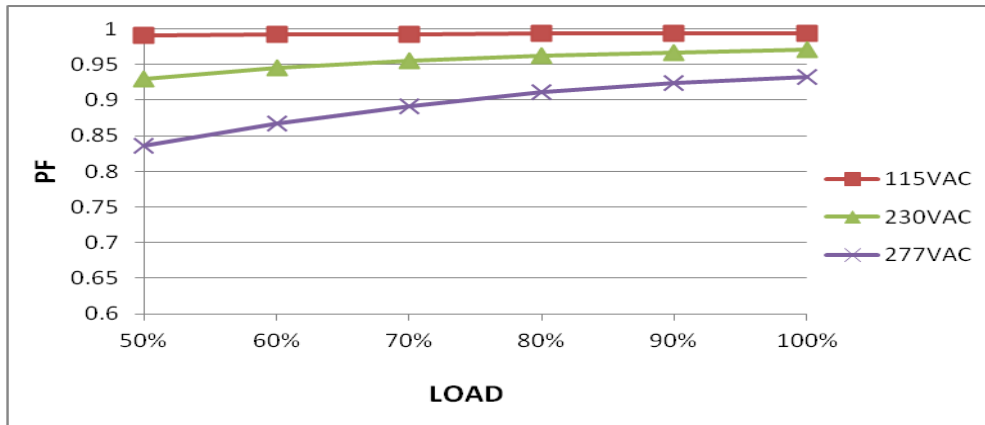
NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	CURRENT TOLERANCE	±5 %	I/P: 230 VAC I/P:115VAC O/P:FULL LOAD Ta:25°C LEDH MODE TEST	0.4028A /230VAC@CV MAX-1V 0.3936A /230VAC@CV MIN 0.4048A/115VAC@CV MAX-1V 0.3976A/115VAC@CV MIN 2.8%
2	CURRENT ADJ. RANGE (BY DIP SWITCH)	CH1:300mA/350mA/400mA/500mA/600mA /700mA/900mA /1050mA	I/P: 230VAC O/P:CVmin& CVmax-1V CP: 0.3A ~1.05A Ta:25°C	0.3052mA/230VAC@CV MAX-1V 0.2972mA /230VAC@CV MIN 0.3548mA/230VAC@CV MAX-1V 0.3452mA/230VAC@CV MIN 0.4020mA/230VAC@CV MAX-1V 0.3948A/230VAC@CV MIN 0.516mA/230VAC@CV MAX-1V 0.4876mA /230VAC@CV MIN 0.5964mA/230VAC@CV MAX-1V 0.5912mA /230VAC@CV MIN 0.688mA/230VAC@CV MAX-1V 0.6920mA /230VAC@CV MIN 0.8848mA/230VAC@CV MAX-1V 0.8836mA /230VAC@CV MIN 1.0306mA/230VAC@CV MAX-1V 1.0332mA /230VAC@CV MIN
3	OPEN CIRCUIT VOLTAGE (max)	60V	I/P: 230VAC O/P: OPEN Ta:25°C	57.3V
4	CONSTANT CURRENT OPERATION VOLTAGE	CH1: 9V~54V	I/P: 230 VAC O/P:FULL LOAD Ta:25°C LEDH MODE TEST	7.6V~56.5V /230VAC
5	CURRENT RIPPLE	< 4%	I/P: 230 VAC I/P:115VAC O/P:FULL LOAD Ta:25°C LEDH MODE TEST	230VAC: 2.1% 115VAC: 2.1%%

<p>6</p> <p>SET UP TIME (Max)</p>	<p>230VAC/500 ms 115VAC/1000 ms</p>	<p>I/P: 230 VAC I/P: 115 VAC O/P:FULL LOAD Ta:25°C LEDH MODE TEST</p>	<p>230VAC/382ms 115 VAC/542 ms</p>
<p>INPUT=230VAC/50HZ @ FULL LOAD CH1 : Output Voltage CH2 : AC Input Voltage</p> <p>DSO-X 3014A, MY63400391, Wed Aug 23 11:22:52 2023</p> <p>1 10.0V/ 2 200V/ 3 4 5.320s 100.0μs 停止 滚动</p> <p>KEYSIGHT</p> <p>采集 标准模式 100kSa/s</p> <p>通道</p> <p>DC 10.01 AC 1000.1 DC BW 1.00.1 DC BW 1.00.1</p> <p>光标</p> <p>ΔX: +382.000000000ms T/ΔX: +2.6178Hz ΔY(1): +43.1250V</p> <p>11:22 AM Aug 23, 2023</p> <p>DC +28.7500V 10.0.1 AC +0.0V 1000.1 DC +310.000mV 1.00.1 DC BW +270.000mV 1.00.1</p>		<p>INPUT=115VAC/60HZ @ FULL LOAD CH1 : Output Voltage CH2 : AC Input Voltage</p> <p>DSO-X 3014A, MY63400391, Wed Aug 23 11:07:06 2023</p> <p>1 10.0V/ 2 100V/ 3 4 5.714s 100.0μs 停止 滚动</p> <p>KEYSIGHT</p> <p>采集 标准模式 100kSa/s</p> <p>通道</p> <p>DC 10.01 AC 1000.1 DC BW 1.00.1 DC BW 1.00.1</p> <p>光标</p> <p>ΔX: +542.000000000ms T/ΔX: +1.8450Hz ΔY(1): +43.1250V</p> <p>11:05 AM Aug 23, 2023</p> <p>DC +28.7500V 10.0.1 AC +0.0V 1000.1 DC +310.000mV 1.00.1 DC BW +270.000mV 1.00.1</p>	
<p>7</p> <p>RISE TIME (Max)</p>	<p>230VAC/100ms 115VAC/100ms</p>	<p>I/P: 230 VAC I/P: 115 VAC O/P:FULL LOAD Ta:25°C LEDH MODE TEST</p>	<p>230VAC/6.8ms 115 VAC/6.8 ms</p>
<p>INPUT=230VAC/50HZ @ FULL LOAD CH1 : Output Voltage</p> <p>DSO-X 3014A, MY63400391, Wed Aug 23 11:24:00 2023</p> <p>1 10.0V/ 2 3 4 5.197s 10.00μs 停止 滚动</p> <p>KEYSIGHT</p> <p>采集 标准模式 100kSa/s</p> <p>通道</p> <p>DC 10.01 AC 1000.1 DC BW 1.00.1 DC BW 1.00.1</p> <p>光标</p> <p>ΔX: +8.800000000ms T/ΔX: +147.06Hz ΔY(1): +43.1250V</p> <p>11:23 AM Aug 23, 2023</p> <p>DC +28.7500V 10.0.1 AC +0.0V 1000.1 DC +310.000mV 1.00.1 DC BW +270.000mV 1.00.1</p>		<p>INPUT=115VAC/60HZ @ FULL LOAD CH1 : Output Voltage</p> <p>DSO-X 3014A, MY63400391, Wed Aug 23 11:08:11 2023</p> <p>1 10.0V/ 2 3 4 5.443s 5.000μs 停止 滚动</p> <p>KEYSIGHT</p> <p>采集 标准模式 100kSa/s</p> <p>通道</p> <p>DC 10.01 AC 1000.1 DC BW 1.00.1 DC BW 1.00.1</p> <p>光标</p> <p>ΔX: +8.800000000ms T/ΔX: +147.06Hz ΔY(1): +43.1250V</p> <p>11:07 AM Aug 23, 2023</p> <p>DC +28.7500V 10.0.1 AC +0.0V 1000.1 DC +310.000mV 1.00.1 DC BW +270.000mV 1.00.1</p>	

INPUT FUNCTION TEST

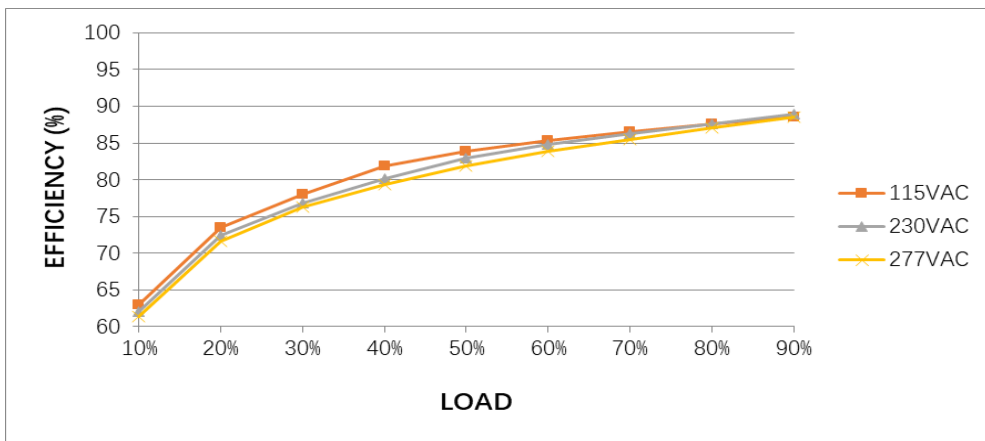
NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	INPUT VOLTAGE RANGE	100VAC~305 VAC 141VDC~400VDC	(1) I/P: TESTING O/P: FULL LOAD (2) I/P: DC TESTING (L: + N:-) O/P: FULL / 50% LOAD (3) I/P: DC TESTING (L: - N: +) O/P: FULL / 50% LOAD (4) I/P: LOW-LINE=141VDC HIGH-LINE=431VDC O/P: Dim on/off 【for Dimming type】 Ta:25°C	(1) 97VAC ~308VAC (2)141 Vdc~431Vdc/FULL LOAD 141Vdc~431Vdc/50% LOAD (3) 141Vdc~431Vdc/FULL LOAD 141Vdc~431Vdc/50% LOAD (4)OK
			I/P: LOW-LINE-3V=97 VAC HIGH-LINE+10V=315 VAC 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: 100VAC ~305VAC O/P:FULL~MIN LOAD Ta:25°C	OK
3	INPUT CURRENT (TYP)	277VAC/0.15A 230 VAC/0.18A 115 VAC/ 0.35A	I/P: 277VAC/230 VAC/115 VAC O/P:FULL LOAD Ta:25°C LEDH MODE TEST	I= 0.103A/277VAC I = 0.111A/ 230VAC I =0.211A/ 115VAC
4	LEAKAGE CURRENT	< 0.75mA / 277VAC	I/P: 277 VAC O/P:Min LOAD Ta:25°C	L-FG: 0.027 mA N-FG:0.022 mA
5	STANDBY POWER CONSUMPTION	Standby power consumption<0.5W(Dimming off)	I/P : 230VAC O/P : TESTING Ta : 25°C	0.382W
6	POWER FACTOR(TYP)	0.95 /230 VAC FULL LOAD 0.97/115 VAC FULL LOAD 0.92/277 VAC FULL LOAD	I/P: 230 VAC/115VAC/277VAC O/P:FULL LOAD Ta:25°C LEDH MODE TEST	PF=0.971 /230V/100%LOAD PF=0.994/115V/100%LOAD PF=0.933/277V/100%LOAD

P.F vs LOAD



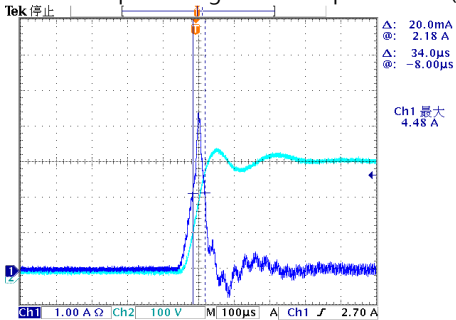
7	EFFICIENCY (TYP)	88 %	I/P: 230 VAC O/P: FULL LOAD Ta: 25°C LEDH MODE TEST	90.4 %
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EFFICIENCY vs LOAD



8	INRUSH CURRENT (TYP)	230 V/ 10A COLD START (twidh=100us measured at 50% Ipeak) COLD START	I/P: 230 VAC O/P: FULL LOAD Ta: 25°C LEDH MODE TEST	I = 4.48 A/ 230VAC T50= 34 us
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INPUT=230VAC/50HZ @ FULL LOAD
CH2 : AC Input Voltage CH1 : Input current (1V=1A)



9	TOTAL HARMONIC DISTORTION	THD < 10%(@load ≥ 50%/230VAC; @load ≥ 75%/277VAC); THD < 15%@load 50%/115VAC	I/P : 115VAC/230VAC/277VAC O/P : 50% /75% LOAD Ta : 25°C	THD : 7.43% 230VAC 50% THD : 7.10% 277VAC 75% THD : 4.96% 115VAC 50%																												
<p>THD vs LOAD</p> <table border="1"> <caption>THD vs LOAD Data</caption> <thead> <tr> <th>LOAD (%)</th> <th>115VAC THD (%)</th> <th>230VAC THD (%)</th> <th>277VAC THD (%)</th> </tr> </thead> <tbody> <tr> <td>50%</td> <td>5.0</td> <td>7.5</td> <td>9.5</td> </tr> <tr> <td>60%</td> <td>6.5</td> <td>6.5</td> <td>8.5</td> </tr> <tr> <td>70%</td> <td>4.5</td> <td>5.5</td> <td>7.5</td> </tr> <tr> <td>80%</td> <td>5.5</td> <td>5.8</td> <td>6.5</td> </tr> <tr> <td>90%</td> <td>7.0</td> <td>6.0</td> <td>7.0</td> </tr> <tr> <td>100%</td> <td>8.5</td> <td>5.5</td> <td>7.0</td> </tr> </tbody> </table>					LOAD (%)	115VAC THD (%)	230VAC THD (%)	277VAC THD (%)	50%	5.0	7.5	9.5	60%	6.5	6.5	8.5	70%	4.5	5.5	7.5	80%	5.5	5.8	6.5	90%	7.0	6.0	7.0	100%	8.5	5.5	7.0
LOAD (%)	115VAC THD (%)	230VAC THD (%)	277VAC THD (%)																													
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PROTECTION FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	OVER TEMPERATURE PROTECTION	NO DAMAGE	I/P: 305 VAC I/P: 100 VAC O/P: FULL LOAD	O.T.P. Active PROTECTION TYPE : Blank & B type: De-rating to lowest output level. Recovers automatically after fault condition is removed. DA2 type: Stage 1: De-rating to 75% loading; Stage 2: De-rating to 50% loading. Recovers automatically after fault condition is removed
2	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	NFC Function Description	<p>The output current of the NFC Mode LED driver can be adjusted using NFC via the mobile APP</p> <p>Operation Instruction:</p> <ul style="list-style-type: none"> Compatible phone Install an NFC-compatible smart mobile device or phone with Android™ 4.1 or IOS12 updates. Steps for setting output current via NFC <ol style="list-style-type: none"> Download Meanwell APP on mobile device or mobile phone, and enable NFC function. Check the NFC antenna position of the mobile phone please. Enter Meanwell APP -> Top left menu –Installation Manual/APP->PowerNFC, approach the LED driver NFC sensing position and perform sensing. APP displays the functional parameters, and the relevant parameters are modified as required. Tap the APP write button and quickly move the phone antenna close to the NFC sensing position of the LED driver. The write completes when the mobile phone displays "Success". <p>APP Function Description: ※ APP Interface:</p>		<p>Model name → XLC-25-H-DA2-N</p> <p>Adjustable Output Current → Current Setting 708 mA</p> <p>NFC setting password → Pass word</p> <p>Factory setting → Default Write</p> <p>Setting to LED Driver →</p> <p>Output Current Level → 708mA</p> <p>GTIN → 4711287510620</p> <p>• To be used through APP available on Apple Store and Google Play Store for IOS and Android. Search: MEAN WELL on</p> <p>Note. Current accuracy : the numerical error between the set current and the actual current is within 2%.</p> <p>I/P: 230 VAC O/P: FULL LOAD Ta: 25°C TEST RESULT : OK</p>												
2	DA2 type (DALI-2 digital dimming function)	<p>◎ DA2 type (DALI-2 digital dimming function)</p> <p>※ Input wiring diagram</p> <p>※ PUSH dimming (primary side)</p> <ul style="list-style-type: none"> 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> <p>I/P : 230 VAC O/P : DIMMING TEST Ta : 25°C TEST RESULT : OK</p>	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%														
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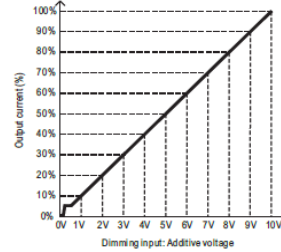
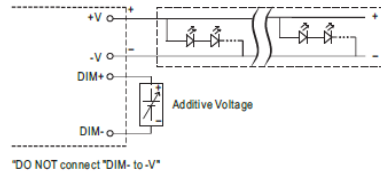
3 DIMMING OPERATION(B-Type)

⊙ B type

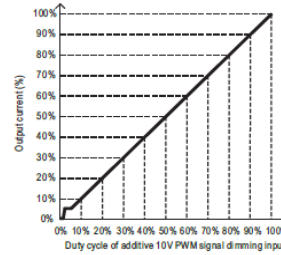
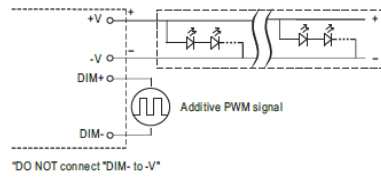
※ 3 in 1 dimming function

- 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.)

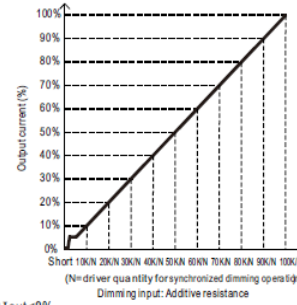
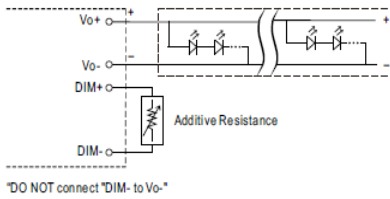
⊙ Applying additive 0~10VDC



⊙ Applying additive 10V PWM signal (frequency range 300Hz~3KHz):



⊙ Applying additive resistance: 0~100k Ω



- 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 0V dc, or 10V PWM signal with 0% duty cycle.

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

	Resistance value	Short	10K	20K	30K	40K	50K	60K	70K	80K	90K	100K	OPEN
1	Output Current	0	0.07 6A	0.14 8A	0.21 8A	0.28 7A	0.35 7A	0.42 7A	0.49 6A	0.56 6A	0.63 6A	0.691 A	0.692 A
	Output Current duty	0%	10.8 0%	21.0 9%	31.0 9%	41.0 3%	51.0 3%	60.9 7%	70.8 0%	80.8 6%	90.8 0%	98.74 %	98.80 %
2	Dimming value	0V	1V	2V	3V	4V	5V	6V	7V	8V	9V	10V	OPEN
	Output Current	0	0.07 4A	0.14 4A	0.20 9A	0.27 8A	0.34 6A	0.41 5A	0.48 1A	0.55 0A	0.61 8A	0.686 A	0.692 A
3	Output Current	0	10.5 1%	20.5 1%	29.8 3%	39.6 6%	49.4 9%	59.3 1%	68.7 4%	78.5 7%	88.3 4%	98.06 %	98.80 %
	Output Current duty	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	OPEN
3	Duty value	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	OPEN
	Output Current	0	0.07 6A	0.14 5A	0.21 1A	0.27 9A	0.34 7A	0.41 4A	0.48 1A	0.54 9A	0.61 6A	0.682 A	0.692 A
3	Output Current	0	10.8 6%	20.6 9%	30.1 7%	39.8 9%	49.5 4%	59.2 0%	68.6 9%	78.4 0%	88.0 6%	97.49 %	98.80 %
	Output Current duty	0%	10.8 6%	20.6 9%	30.1 7%	39.8 9%	49.5 4%	59.2 0%	68.6 9%	78.4 0%	88.0 6%	97.49 %	98.80 %

COMPONENT STRESS TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	PWM Transistor (D to S) or (C to E) Peak Voltage	Q1 Rated 7A/800V	<p>AC ON/OFF I/P: High-Line +3V =308v</p> <p>VDS: O/P: (1) LEDmax (2) LEDmax continue (3) LEDmin (4) LEDmin continue (5) Output Short</p> <p>I/P: Low-Line -3V = 97V</p> <p>VDS: O/P: (1) LEDmax (2) LEDmax continue (3) LEDmin (4) LEDmin continue (5) Output Short</p> <p>Ta:25°C</p>	<p>308V CP: 1.05A Q1 VDS: (1) 739V (2) 540V (3) 716V (4) 524V (5) 708V</p> <p>CP: 0.3A VDS: (1) 741V (2) 524V (3) 708V (4) 524V (5) 700V</p> <p>97V CP: 1.05A Q1 VDS: (1) 293V (2) 257V (3) 285V (4) 237V (5) 297V CP: 0.3A VDS: (1) 322V (2) 241V (3) 321V (4) 225V (5) 265V</p>
2	Diode Peak Voltage	D100 Rated 3A/600V	<p>AC ON/OFF I/P: High-Line +3V =308 V Q101 :</p> <p>VDS: O/P: (1) LEDmax (2) LEDmax continue (3) Output Short</p> <p>Ta:25°C</p>	<p>(1) 511V (2) 406V (3) 490V</p>

3	Control IC Voltage Test	<p>U1 Rated -0.3V~18V</p> <p>U150 Rated -0.3V~82V</p> <p>U261 Rated 1.7V~3.6V</p>	<p>AC ON/OFF I/P: High-Line +3V =308 V</p> <p>O/P: (1) LEDmax (2) LEDmax continue (3) LEDmin (4) LEDmin continue (5) NO LOAD (6) Dim off</p> <p>Ta:25°C</p>	<p>U1</p> <p>(1) 14.7V (2) 11.5V (3) 14.7V (4) 10.9V (5) 10.7V (6) 10.3V</p> <p>U150</p> <p>(1) 64.4V (2) 64.4V (3) 62.8V (4) 62.8V (5) 63.6V (6) 62.8V</p> <p>U261</p> <table border="1"> <thead> <tr> <th>TEST CONDITION</th> <th>Level</th> <th>Ripple</th> <th>Spike</th> </tr> </thead> <tbody> <tr> <td>LEDmax</td> <td>3.299V</td> <td>0.159%</td> <td>0.24%</td> </tr> <tr> <td>LEDmin</td> <td>3.298V</td> <td>0.159%</td> <td>0.30%</td> </tr> <tr> <td>Output Short</td> <td>3.298V</td> <td>0.159%</td> <td>0.30%</td> </tr> <tr> <td>NO LOAD VRmin.LOW LINE</td> <td>3.299V</td> <td>0.159%</td> <td>0.24%</td> </tr> <tr> <td>DIM OFF</td> <td>3.298V</td> <td>0.159%</td> <td>0.24%</td> </tr> </tbody> </table>	TEST CONDITION	Level	Ripple	Spike	LEDmax	3.299V	0.159%	0.24%	LEDmin	3.298V	0.159%	0.30%	Output Short	3.298V	0.159%	0.30%	NO LOAD VRmin.LOW LINE	3.299V	0.159%	0.24%	DIM OFF	3.298V	0.159%	0.24%
TEST CONDITION	Level	Ripple	Spike																									
LEDmax	3.299V	0.159%	0.24%																									
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NO LOAD VRmin.LOW LINE	3.299V	0.159%	0.24%																									
DIM OFF	3.298V	0.159%	0.24%																									
4	Clamp Diode Peak Voltage	D10 Rated : 1000V/1A	<p>AC ON/OFF I/P : High-Line +3V = 308 V</p> <p>O/P: (1) LEDmax (2) LEDmax continue (3) LEDmin (4) LEDmin continue (5) NO LOAD</p> <p>Ta : 25°C</p>	<p>(1)699V (2)554V (3)739V (4)538V (5)731V</p>																								
5	Dimming MOS	Q110 Rated : 100V /35A	<p>AC ON/OFF I/P : High-Line +3V = 308 V</p> <p>O/P: (1) LEDmax (2) LEDmax continue (3) Output Short</p> <p>Ta : 25°C</p>	<p>CP: 1.05A (1)68.9V (2)68.1V (3)65.6V</p> <p>CP: 0.3A (1)68.1V (2)67.3V (3)65.6V</p>																								

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: 2.63 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: 9999 MΩ NO DAMAGE

E.M.C TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	HARMONIC	EN61000-3-2 CLASS C	I/P: 230 VAC/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 : XLC-25-H-DA2 1. ROOM AMBIENT BURN-IN : 2 HRS I/P : 230VAC O/P : FULL LOAD Ta=32.7 °C 2. HIGH AMBIENT BURN-IN : 2 HRS I/P : 230VAC O/P : FULL LOAD Ta=51.6 °C																																																																		
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2	LOW TEMPERATURE TURN ON TEST	TURN ON AFTER 2 HOUR	I/P : 305VAC/110VAC O/P : 100 % LOAD Ta=-30 °C	TEST : OK																																																																
3	HIGH HUMIDITY HIGH TEMPERATURE HIGH VOLTAGE TURN ON TEST	AFTER 12 HOURS IN CHAMBER ON CONTROL 50 °C NO DAMAGE	I/P : 315 VAC O/P : FULL LOAD Ta=50 °C HUMIDITY= 95 %R.H	TEST : OK																																																																
4	TEMPERATURE COEFFICIENT	± 0.03 %(0°C~50°C)	I/P : 230 VAC O/P : FULL LOAD	± 0.007 %/°C(0~50°C)																																																																
5	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																																																																	

6	THERMAL SHOCK TEST	-25~50°C	1. Thermal shock Temperature : -30°C~ +55°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
7	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
8	CAPACITOR LIFE CYCLE	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) 52296HRS (2) 58868HRS (3) 68829HRS
9	MTBF	Conducted by Parts Stress Analysis Prediction 3949.8K hrs min. Telcordia SR-332 (Bellcore) ; 338.5K 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/HUANGMK	WENF	LINKX

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