

MW Search: https://www.meanwell.com/serviceGTIN.aspx

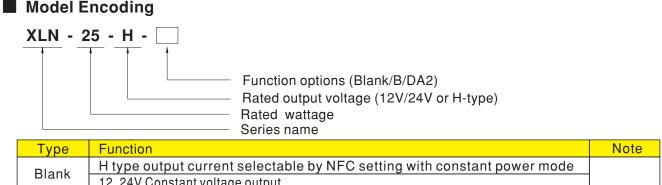


Minimum dimming level 0.1% (DALI-2 DT6)

- Dimming functions: 3 in 1 dimming (Dim-to-off)
 DALI-2 + Push dimming
- 5 years warranty

Description

XLN-25 Series is a 25W with constant power and constant voltage output LED driver . It can operate from 100~305VAC and output current ranging between 300 mA to 1050 mA selectable by NFC setting. Thanks to high efficiency up to 88%, it is able to operate for -25° C ~85°C case temperature under free air convection. XLN-25 is designed based on latest safety regulation with 3 in 1 and DALI-2 dimming.XLN-25 can also be adjusted for brightness with a push button as a simple way dimming, so it provides more flexibility for LED Lighting application.



	Blank	H type output current selectable by NFC setting with constant power mode	
		12, 24V Constant voltage output	In stock
	В	H type output current selectable by NFC setting and built in 3 in 1 dimming	III SLUCK
	DA2	H type output current selectable by NFC setting and built in DALI-2 dimming	
_			

Note: 1. 12V/24V output is fixed without NFC function and Dimming.

2. For more current setting, please contact MW sales representative.



SPECIFICATION

		XLN-25-12	XLN-25-2	24				
	RATED VOLTAGE	12V	24V					
	RATED CURRENT	2.1A	1.05A					
	RATED POWER Note.2	25.2W	25.2W					
DUTPUT	RIPPLE & NOISE (max.) Note.3							
	VOLTAGE TOLERANCE Note.4	±4.0% ±0.5%						
	LINE REGULATION							
	LOAD REGULATION	±2.0%						
	SETUP, RISE TIME Note.5	500ms, 100ms/230VAC, 1000ms, 100ms/115VAC						
	VOLTAGE RANGE	100 ~ 305VAC 141 ~ 400VDC						
	FREQUENCY RANGE	47 ~ 63Hz						
	POWER FACTOR	PF ≥ 0.97/115VAC, PF ≥ 0.95/230VAC, PF ≥ 0.92/277VAC@full load (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)						
	TOTAL HARMONIC DISTORTION	N THD<10%(@load≧50%/230VAC; @load≧75%/277VAC), THD<15%(@load≧50%/115VAC) (Please refer to "TOTAL HARMONIC DISTORTION(THD)" section)						
NPUT	EFFICIENCY (Typ.)	86% 88%						
	AC CURRENT	0.35A / 115VAC 0.18A / 230VAC 0.15A/277VAC						
	INRUSH CURRENT(Typ.)	COLD START 10A(twidth=100µs measured at 50% Ipeak) at 230VAC; Per NEMA 410						
	MAX. No. of PSUs on 16A							
	CIRCUIT BREAKER	71 units (circuit breaker of type B) / 71 units (circuit breaker of type C) at 230VAC						
	LEAKAGE CURRENT	<0.75mA / 277VAC						
		<0.75mA7277VAC 105 ~ 220% rated output power						
	OVER LOAD	Protection type:Hiccup mode , recovers	automatically after fault condition is r	emoved				
	SHORT CIRCUIT	Hiccup mode, recovers automatically aft						
ROTECTION		13~16V	26 ~ 32V	1				
	OVER VOLTAGE	Shut down and latch off o/p voltage, re-po	ower on to recover					
	OVER TEMPERATURE	Shut down output voltage, recovers automatically after fault condition is removed						
	WORKING TEMP.	Tcase=-25 ~ 85 $^{\circ}$ C (Please refer to " OUT	PUT LOAD vs TEMPERATURE" section	on)				
	MAX. CASE TEMP.	Tcase=85°C						
NVIRONMENT	WORKING HUMIDITY	20 ~ 90% RH non-condensing						
	STORAGE TEMP., HUMIDITY	-40 ~ +80℃ , 10 ~ 95% RH						
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)						
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for	60min. each along X, Y, Z axes					
	WITHSTAND VOLTAGE	EN/EN62384 independent, GB19510.14, GB19510.1, EAC TP TC 004 ;UL 8750(Type HL and Class P); CSA C22.2 No. 250.13-12, AS/NZS 61347-1, AS/NZS 61347-2-13 approved; //P-O/P:3.75KVAC						
	ISOLATION RESISTANCE	I/P-O/P:>100M Ohms / 500VDC / 25°C/						
		Parameter	Standard		Test Level/Note			
		Conducted	BS EN/EN55015(CISPR15),					
	EMC EMISSION							
	EMC EMISSION	Radiated	BS EN/EN55015(CISPR15),					
SAFETY &	EMC EMISSION	Harmonic Current	BS EN/EN61000-3-2, GB176		Class C @load≥50%			
		Harmonic Current Voltage Flicker						
		Harmonic Current Voltage Flicker BS EN/EN61547	BS EN/EN61000-3-2 , GB176 BS EN/EN61000-3-3		Class C @load≥50% 			
		Harmonic Current Voltage Flicker BS EN/EN61547 Parameter	BS EN/EN61000-3-2, GB176 BS EN/EN61000-3-3 Standard		Class C @load≥50% Test Level/Note			
		Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD	BS EN/EN61000-3-2 , GB176 BS EN/EN61000-3-3 Standard BS EN/EN61000-4-2		Class C @load≥50% Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact			
		Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD Radiated	BS EN/EN61000-3-2, GB176 BS EN/EN61000-3-3 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3		Class C @load≥50% Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact Level 2			
		Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT/Burst	BS EN/EN61000-3-2, GB176 BS EN/EN61000-3-3 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-4		Class C @load≥50% Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact Level 2 Level 2			
		Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT/Burst Surge	BS EN/EN61000-3-2, GB176 BS EN/EN61000-3-3 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-3 BS EN/EN61000-4-4 BS EN/EN61000-4-5		Class C @load≥50% Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact Level 2 Level 2 Level 3, 1KV/Line-Line			
		Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT/Burst Surge Conducted	BS EN/EN61000-3-2, GB176 BS EN/EN61000-3-3 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-3 BS EN/EN61000-4-5 BS EN/EN61000-4-6		Class C @load≥50% Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact Level 2 Level 2 Level 3, 1KV/Line-Line Level 2			
		Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT/Burst Surge	BS EN/EN61000-3-2, GB176 BS EN/EN61000-3-3 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-3 BS EN/EN61000-4-4 BS EN/EN61000-4-5		Class C @load≥50% Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact Level 2 Level 2 Level 3, 1KV/Line-Line			
		Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT/Burst Surge Conducted Magnetic Field	BS EN/EN61000-3-2, GB176 BS EN/EN61000-3-3 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-3 BS EN/EN61000-4-5 BS EN/EN61000-4-5 BS EN/EN61000-4-6 BS EN/EN61000-4-8		Class C @load≥50% Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact Level 2 Level 2 Level 2, 1KV/Line-Line Level 2 Level 2 Level 2 70% residual voltage for 10			
EMC	EMC IMMUNITY	Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT/Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions	BS EN/EN61000-3-2, GB176 BS EN/EN61000-3-3 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-3 BS EN/EN61000-4-4 BS EN/EN61000-4-5 BS EN/EN61000-4-6 BS EN/EN61000-4-8 BS EN/EN61000-4-11		Class C @load≥50% Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact Level 2 Level 2 Level 2 Level 2 Level 2 T0% residual voltage for 10 period, 0% residual voltage for 0.5 periods			
EMC	EMC IMMUNITY FLICKER Note.6	Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT/Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions PstLM ≤ 1, SVM ≤ 0.4	BS EN/EN61000-3-2, GB176 BS EN/EN61000-3-3 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-3 BS EN/EN61000-4-4 BS EN/EN61000-4-5 BS EN/EN61000-4-6 BS EN/EN61000-4-8 BS EN/EN61000-4-11	625.1	Class C @load≥50% Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact Level 2 Level 2 Level 2 Level 2 Level 2 T0% residual voltage for 10 period, 0% residual voltage for 0.5 periods			
SAFETY & EMC DTHERS	EMC IMMUNITY FLICKER Note.6 MTBF	$\label{eq:harmonic Current} \\ \begin{tabular}{lllllllllllllllllllllllllllllllllll$	BS EN/EN61000-3-2, GB176 BS EN/EN61000-3-3 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-3 BS EN/EN61000-4-4 BS EN/EN61000-4-5 BS EN/EN61000-4-6 BS EN/EN61000-4-8 BS EN/EN61000-4-11	625.1	Class C @load≥50% Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact Level 2 Level 2 Level 2 Level 2 Level 2 T0% residual voltage for 10 period, 0% residual voltage for 0.5 periods			

*Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx

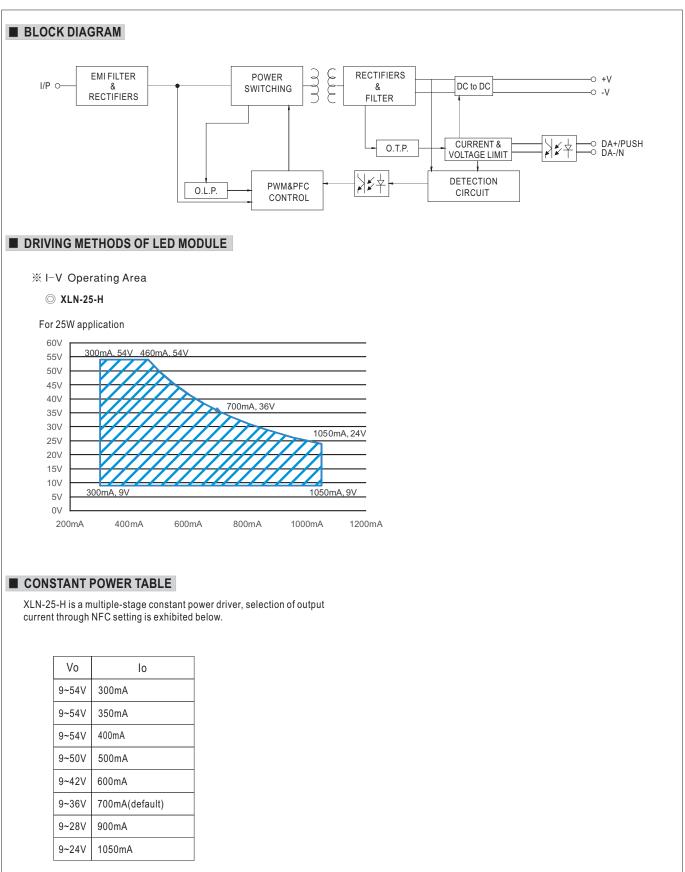


SPECIFICATION

MODEL		XLN-25-H-					
-	OPEN CIRCUIT VOLTAGE Note.2	60V					
	DEFAULT CURRENT	700mA					
OUTPUT	CURRENT ADJ.RANGE (BY NFC)	0.3~1.05A					
	CONSTANT CURRENT REGION Note.3	9~54V					
	RATED POWER Note.4	25W					
	CURRENT RIPPLE	<4%					
	CURRENT TOLERANCE	±5%					
	DIMMING RANGE	0~100%					
	SETUP, RISE TIME Note.5,6	500ms, 100ms/230VAC, 1000ms, 100m	ns/115VAC				
	VOLTAGE RANGE	100 ~ 305VAC 141 ~ 400VDC					
	FREQUENCY RANGE	47~63Hz					
-	POWER FACTOR	PF≥0.97/115VAC, PF≥0.95/230VAC, PF≥0.92/277VAC@full load (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section) THPC10% (Plead >56% (22)VAC: @lead > 75% (22)VAC: #LPC16% (@lead > 56% (145)VAC)					
INDUT	TOTAL HARMONIC DISTORTION	THD<10%(@load≥50%/230VAC; @load≥75%/277VAC), THD<15%(@load≥50%/115VAC) (Please refer to *TOTAL HARMONIC DISTORTION(THD)* section)					
INPUT	EFFICIENCY (Typ.) Note.7	88% 0.354/115VAC 0.184/230VAC 0.154/277VAC					
	AC CURRENT	0.35A/115VAC 0.18A/230VAC 0.15A/277VAC					
	INRUSH CURRENT(Typ.) MAX. No. of PSUs on 16A	COLD START 10A(twidth=100µs measured at 50% Ipeak) at 230VAC; Per NEMA 410 71 units (circuit breaker of type B) / 71 units (circuit breaker of type C) at 230VAC					
-	CIRCUIT BREAKER	<0.75mA/277VAC					
	STANDBY POWER CONSUMPTION Note.8	Standby power consumption<0.5W(Dimming off)					
	SHORT CIRCUIT	Hiccup mode, recovers automatically after					
PROTECTION	OVER TEMPERATURE		out level. Recovers automatically after fault condition is ding; Stage 2: De-rating to 50% loading. Recovers automa				
	WORKING TEMP.	Tcase=-25 ~ 85°C (Please refer to " OUT	PUT LOAD vs TEMPERATURE" section)				
	MAX. CASE TEMP.	Tcase=85°C	· · · · · · · · · · · · · · · · · · ·				
ENVIRONMENT	WORKING HUMIDITY	20 ~ 90% RH non-condensing					
	STORAGE TEMP., HUMIDITY	-40 ~ +80℃, 10 ~ 95% RH					
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)					
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for	r 60min. each along X, Y, Z axes				
	SAFETY STANDARDS	ENEC BS EN/EN61347-1, BS EN/EN61347-2-13(EL) appendix J suitable for emergency installations(DC input 176-280VDC); BS EN/EN62384 independent, GB19510.14, GB19510.1, EAC TP TC 004; UL 8750(Type HL and Class P); CSA C22.2 No. 250.13-12, AS/NZS 61347-1, AS/NZS 61347-2-13 approved;					
	DALI STANDARDS	Comply with IEC62386-101,102,207					
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC					
SAFETY &	ISOLATION RESISTANCE	I/P-O/P:>100M Ohms / 500VDC / 25°C/	70% RH				
EMC		Parameter	Standard	Test Level/Note			
		Conducted	BS EN/EN55015(CISPR15), GB/T 17743				
	EMC EMISSION	Radiated	BS EN/EN55015(CISPR15), GB/T 17743				
		Harmonic Current	BS EN/EN61000-3-2, GB17625.1	Class C @load≥50%			
		Voltage Flicker	BS EN/EN61000-3-3				
		BS EN/EN61547					
		Parameter	Standard	Test Level/Note			
		ESD	BS EN/EN61000-4-2	Level 3, 8KV air ; Level 2, 4KV contact			
		Radiated	BS EN/EN61000-4-3	Level 2			
	EMC IMMUNITY	EFT/Burst	BS EN/EN61000-4-4	Level 2			
		Surge	BS EN/EN61000-4-5	Level 3, 1KV/Line-Line			
		Conducted	BS EN/EN61000-4-6	Level 2			
		Magnetic Field	BS EN/EN61000-4-8	Level 2			
		Voltage Dips and Interruptions	BS EN/EN61000-4-11	70% residual voltage for 10 period, 0% residual voltage for 0.5 periods			
	FLICKER Note.9	PstLM ≤ 1, SVM ≤ 0.4					
OTHERS	MTBF	3949.8 K hrs min. Telcordia SR-332 (E	3ellcore); 338.5 Khrs min. MIL-HDBK-217F (25℃)				
	DIMENSION PACKING	114*44*32mm (L*W*H) 320g; 40pcs/13.5Kg/0.95CUFT					
NOTE	 All parameters NOT specially m Output hiccups under no-load c Please refer to "DRIVER METH De-rating may be need under lot Length of set up time is measure Based on IEC 62386-101/102 power on function, otherwise th Efficiency is measured at 500m Standby power consumption is Flicker is measured at full load at The driver is considered as a clinitation, the final equipmen (as available on https://www.m The series meets the typical ii To fulfill requirements of the lat Prover some for the lat 	entioned are measured at 230VAC input, ondition. IODS OF LED MODULE". winput voltages. Please refer to "STATI(ed at first cold start. Turning ON/OFF the AJL power on timing and interruption reg e startup time will be higher than 0.5 sec A/50V by NFC. measured at 230VAC. with the light source provided by MEAN V measured at 230VAC. with the light source provided by MEAN V component that will be operated in combi t manufacturers must re-qualify EMC Din teanwell.com//Upload/PDF/EML_statemer ting of 3.5°(7)000m with fanless models fe expectancy of >50,000 hours of operal set ErP regulation for lighting future, this erricas regions may not have the CCC/F	WELL. nation with final equipment. Since EMC performance wi ective on the complete installation again.	I be affected by the complete igher than 2000m(6500ft).), is about 70°C or less. rmanently connected to the mains.			
	15. For more information, please of		r to https://www.meanwell.com/serviceDisclaimer.a				

*Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx





Note: 1. The operating voltage range which show on this table is recommend to use.

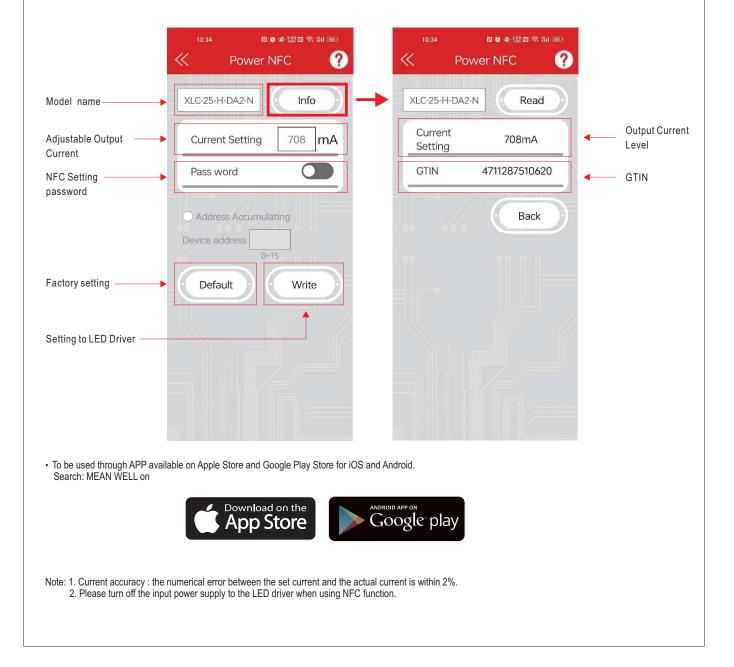


NFC Function Description

- 1. The output current of the NFC Mode LED driver can be adjusted using NFC via the mobile APP.
- Operation Instruction:
- Compatible phone
- Install an NFC-compatible smart mobile device or phone with AndroidTM 4.1 or IOS12 updates.
- Steps for setting output current via NFC
- 1. Download Meanwell APP on mobile device or mobile phone, and enable NFC function.
- 2. Check the NFC antenna position of the mobile phone please.
- 3. Enter Meanwell APP -> Top left menu Installation Manual/APP-> PowerNFC, approach the LED driver NFC sensing position and perform sensing.
- 4. APP displays the functional parameters, and the relevant parameters are modified as required.
- 5. Tap the APP write button and quickly move the phone antenna close to the NFC sensing position of the LED driver.
- 6. The write completes when the mobile phone displays"Success".

APP Function Description

※ APP Interface:

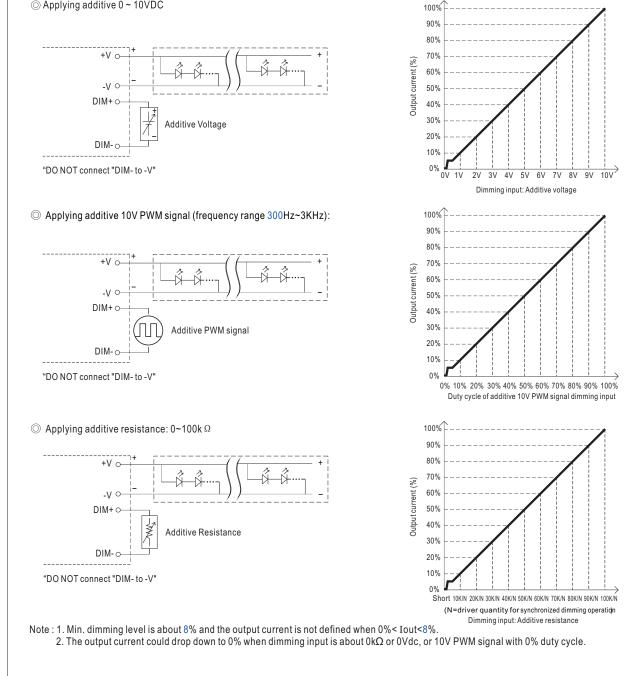




DIMMING OPERATION

O 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

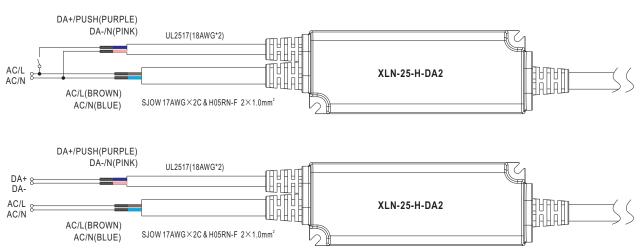




■ DIMMING OPERATION

◎ DA2 type (DALI-2 digital dimming function)

※ Input wiring diagram



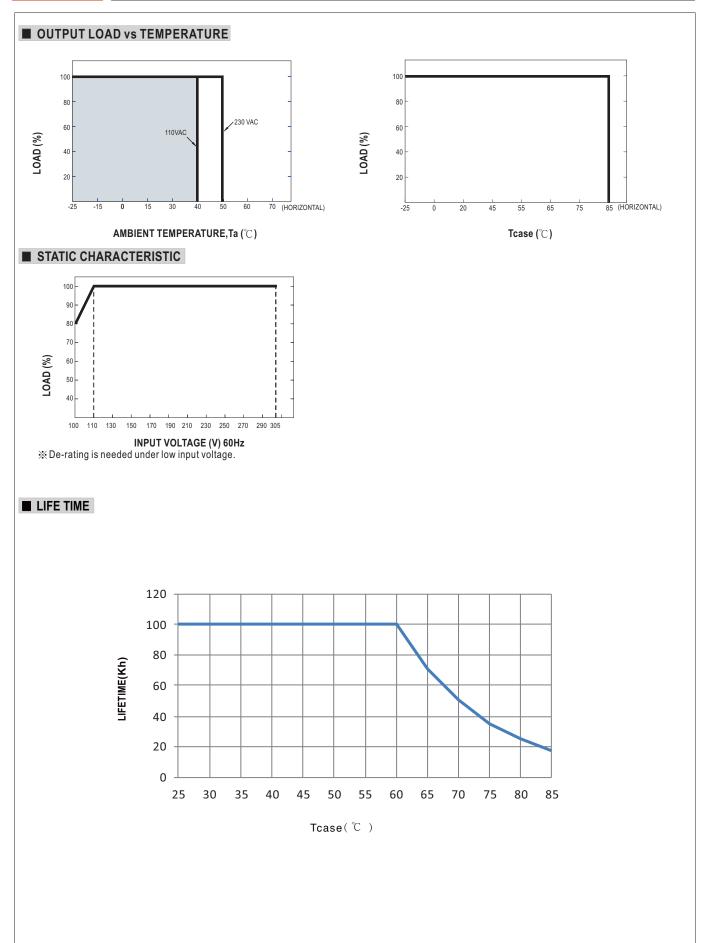
*****PUSH dimming (primary side)

• 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.

	0	•
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



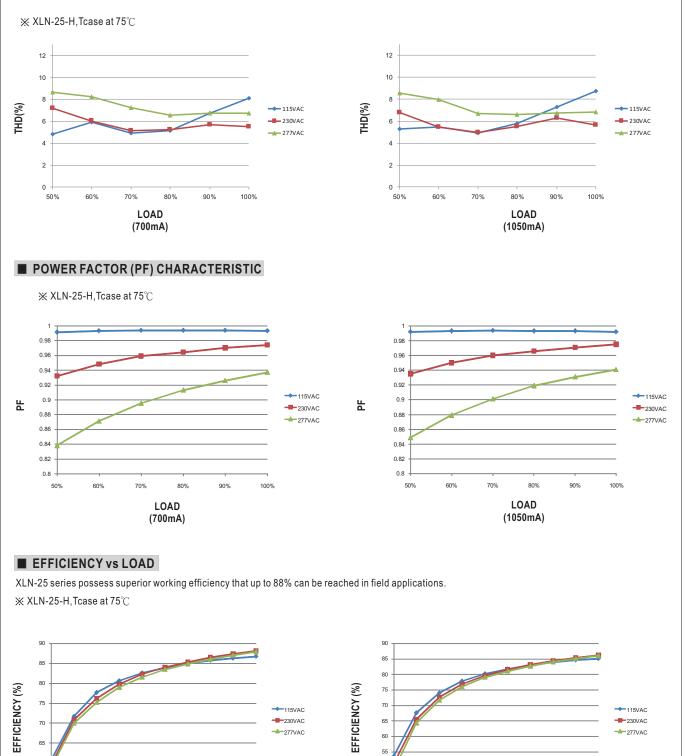




60

30% 40%

TOTAL HARMONIC DISTORTION (THD)



50 45

100%

80% 90%

LOAD

(700mA)

10%

20% 30% 40%

100%

80% 90%

60% 70%

LOAD

(1050mA)



