



25W Multiple-Stage Constant Power/Constant Voltage LED Driver

XLN-25 series

NFC



(Independent type)



IP67



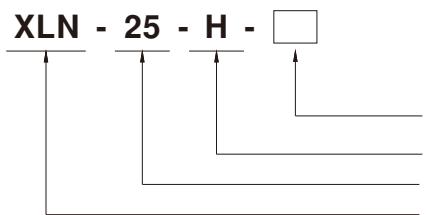
■ Features

- Constant power mode output with multiple stage selectable by NFC setting (H-type)
- Constant voltage mode output (12V/24V)
- Plastic housing with class II and PFC design
- Meet UL 8750 Class 2 / Class P power unit
- Flicker free, complying with CE ErP directive
- Standby power consumption <0.5W
- Meet emergency lighting (EL) application
- Fully encapsulated with IP67
- 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.

■ Model Encoding



Function options (Blank/B/DA2)

Rated output voltage (12V/24V or H-type)

Rated wattage

Series name

Type	Function	Note
Blank	H type output current selectable by NFC setting with constant power mode	In stock
	12, 24V Constant voltage output	
B	H type output current selectable by NFC setting and built in 3 in 1 dimming	
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.

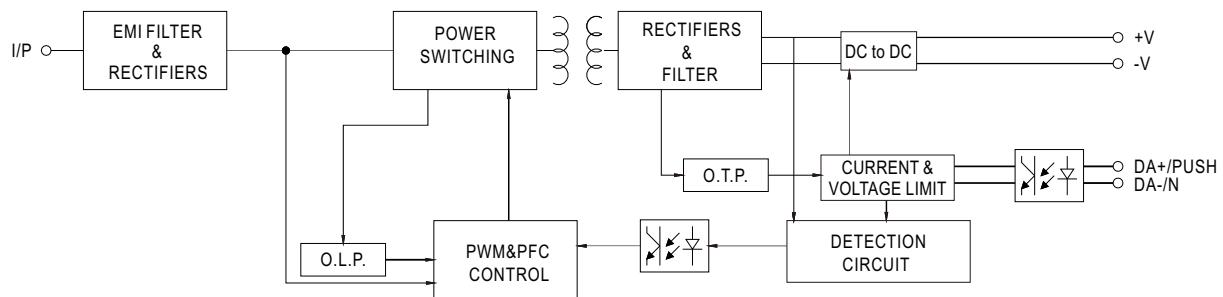
SPECIFICATION

MODEL		XLN-25-12	XLN-25-24	
OUTPUT	RATED VOLTAGE	12V	24V	
	RATED CURRENT	2.1A	1.05A	
	RATED POWER Note.2	25.2W	25.2W	
	RIPPLE & NOISE (max.) Note.3	120mVp-p	240mVp-p	
	VOLTAGE TOLERANCE Note.4	±4.0%		
	LINE REGULATION	±0.5%		
	LOAD REGULATION	±2.0%		
SETUP, RISE TIME Note.5		500ms, 100ms/230VAC, 1000ms, 100ms/115VAC		
INPUT	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	THD<10%(@load≥50%/230VAC; @load≥75%/277VAC), THD<15%(@load≥50%/115VAC) (Please refer to "TOTAL HARMONIC DISTORTION(THD)" section)		
	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		
PROTECTION	OVER LOAD	105 ~ 220% rated output power Protection type:Hiccup mode , recovers automatically after fault condition is removed		
	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed		
	OVER VOLTAGE	13 ~ 16V	26 ~ 32V	
	OVER TEMPERATURE	Shut down and latch off o/p voltage, re-power on to recover		
ENVIRONMENT	WORKING TEMP.	Tcase=-25 ~ 85°C (Please refer to " OUTPUT LOAD vs TEMPERATURE" section)		
	MAX. CASE TEMP.	Tcase=85°C		
	WORKING HUMIDITY	20 ~ 90% RH non-condensing		
	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 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		
SAFETY & EMC	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;		
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC		
	ISOLATION RESISTANCE	I/P-O/P:>100M Ohms / 500VDC / 25°C / 70% RH		
	EMC EMISSION	Parameter	Standard	Test Level/Note
		Conducted	BS EN/EN55015(CISPR15),GB/T 17743	-----
		Radiated	BS EN/EN55015(CISPR15),GB/T 17743	-----
		Harmonic Current	BS EN/EN61000-3-2 , GB17625.1	Class C @load≥50%
	EMC IMMUNITY	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
		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
	FLICKER Note.6	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
OTHERS	MTBF	3949.8 K hrs min. Telcordia SR-332 (Bellcore) ; 338.5 Khrs min. MIL-HDBK-217F (25°C)		
	DIMENSION	114*44*32mm (L*W*H)		
	PACKING	320g; 40pcs/13.5Kg/0.95CUFT		
	NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. 2. De-rating may be need under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. 3. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uF & 47uF parallel capacitor. 4. Tolerance: includes set up tolerance, line regulation and load regulation. 5. Length of set up time is measured at first cold start. Turning ON/OFF the driver may lead to increase of the set up time. 6. Flicker is measured at full load with the light source provided by MEAN WELL. 7. To fulfill requirement of the latest ErP regulation for lighting fixtures, this LED driver can only be used behind a switch without permanently connected to the mains. 8. The driver is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. (as available on https://www.meanwell.com/Upload/PDF/EMI_statement_en.pdf) 9. The ambient temperature de-rating of 3.5°C/1000m with fanless models and 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft). 10. This series meets the typical life expectancy of >50,000 hours of operation when Tcase, particularly \textcircled{C} point (or TMP, per DLC), is about 70°C or less. 11. Products sourced from the Americas regions may not have the CCC/PSE/BIS/KC logo. Please contact your MEAN WELL sales for more information. 12. For more information, please contact with MEAN WELL sales. *Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx		

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	OVER TEMPERATURE	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.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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■ BLOCK DIAGRAM

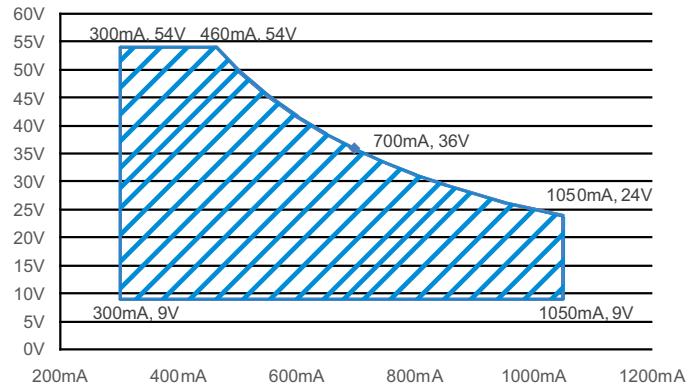


■ DRIVING METHODS OF LED MODULE

※ I-V Operating Area

◎ XLN-25-H

For 25W application



■ CONSTANT POWER TABLE

XLN-25-H is a multiple-stage constant power driver, selection of output current through NFC setting is exhibited below.

Vo	Io
9~54V	300mA
9~54V	350mA
9~54V	400mA
9~50V	500mA
9~42V	600mA
9~36V	700mA(default)
9~28V	900mA
9~24V	1050mA

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.

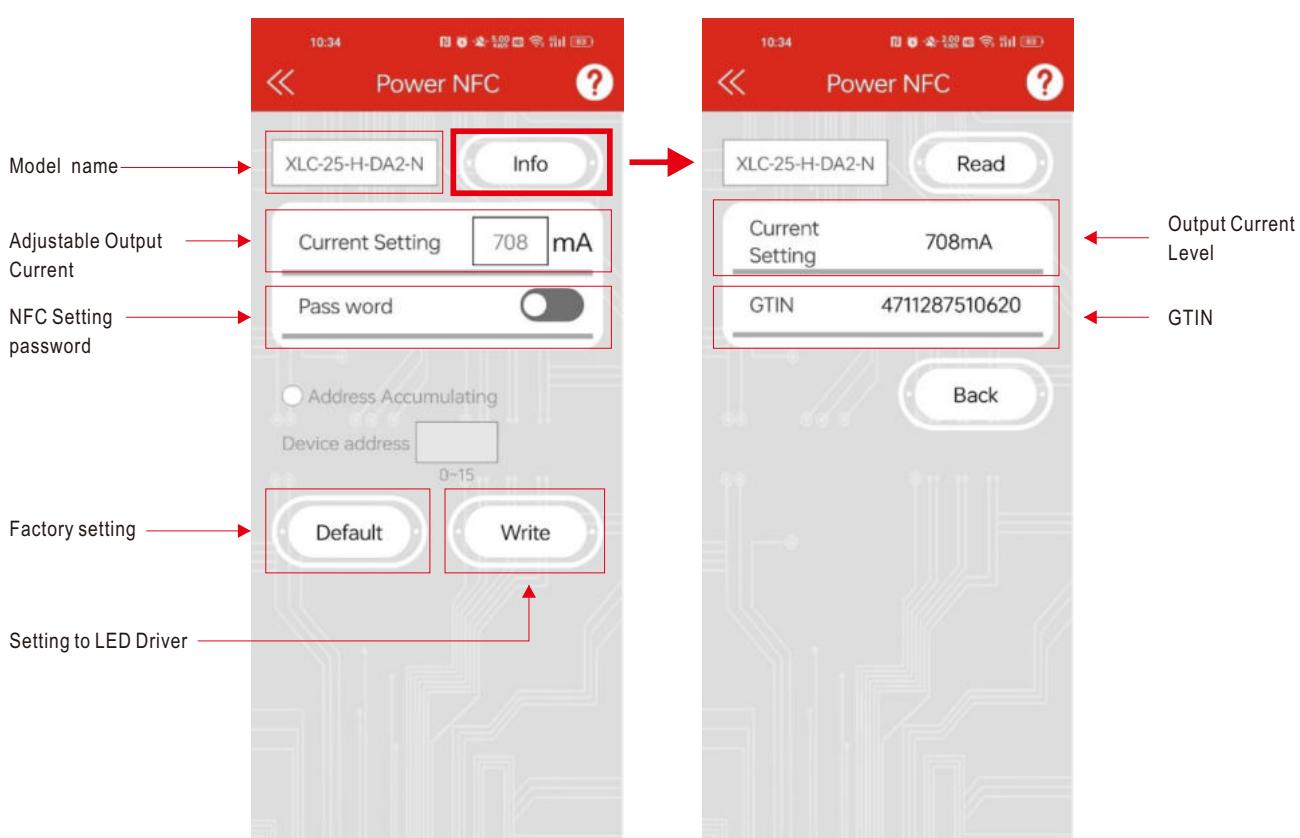
4. APP displays the functional parameters, and the relevant parameters are modified as required.

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:



- To be used through APP available on Apple Store and Google Play Store for iOS and Android.
Search: MEAN WELL on



Note: 1. Current accuracy : the numerical error between the set current and the actual current is within 2%.
2. Please turn off the input power supply to the LED driver when using NFC function.

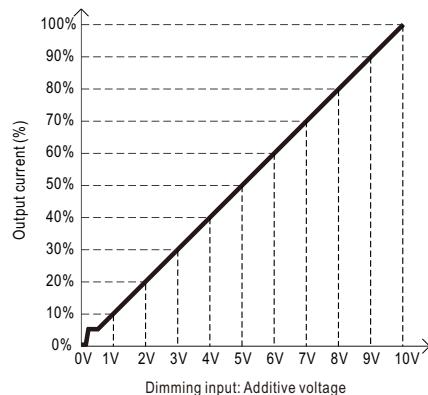
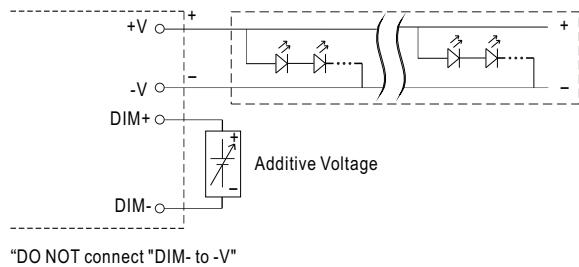
DIMMING OPERATION

◎ B type

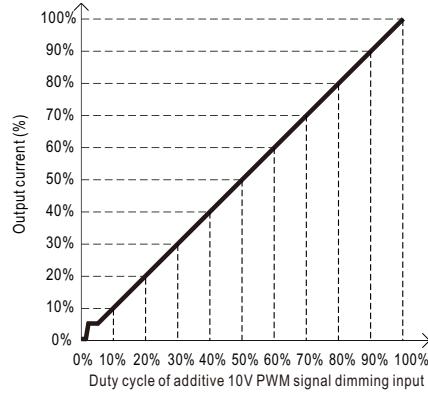
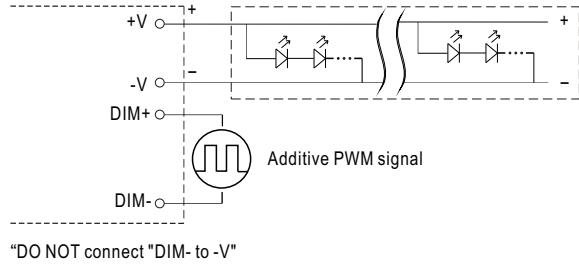
※ 3 in 1 dimming function

- 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: $100 \mu\text{A}$ (typ.)

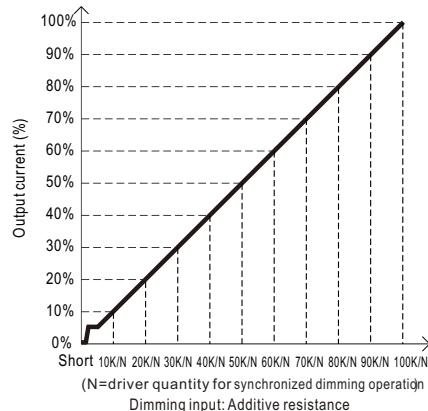
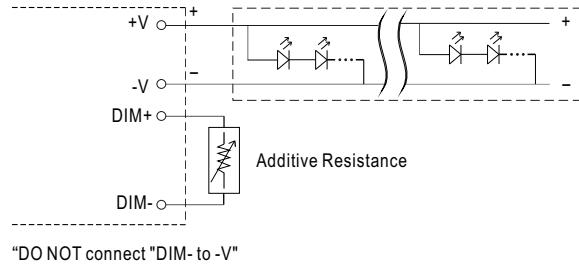
◎ Applying additive 0 ~ 10VDC



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



◎ Applying additive resistance: 0~100k Ω



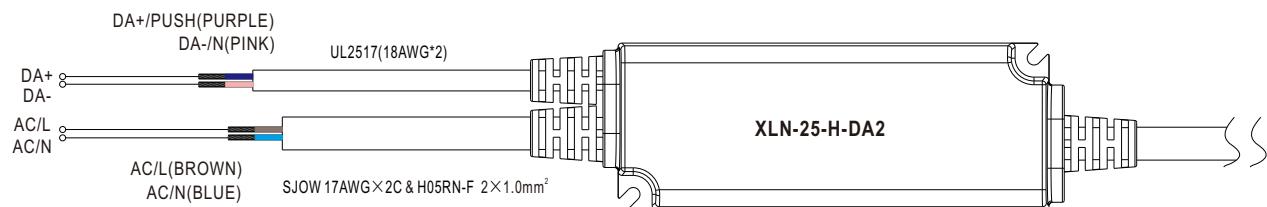
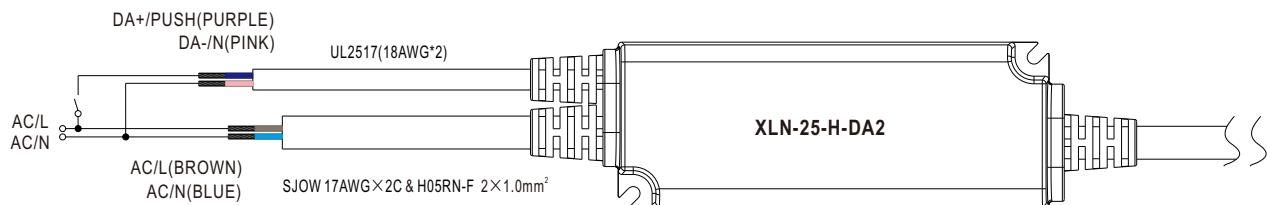
Note : 1. Min. dimming level is about 8% and the output current is not defined when $0\% < I_{out} < 8\%$.

2. The output current could drop down to 0% when dimming input is about $0\text{k}\Omega$ or 0Vdc , or 10V PWM signal with 0% duty cycle.

DIMMING OPERATION

◎ DA2 type (DALI-2 digital dimming function)

※ Input wiring diagram

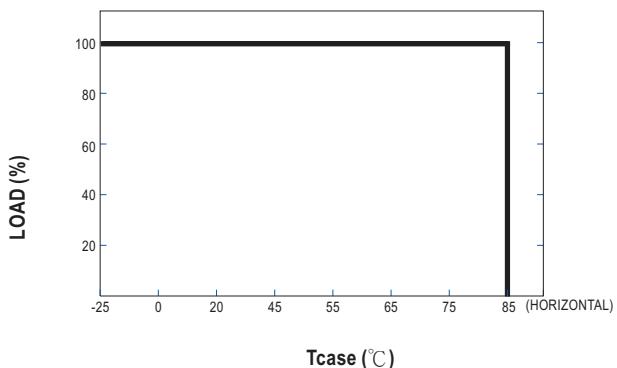
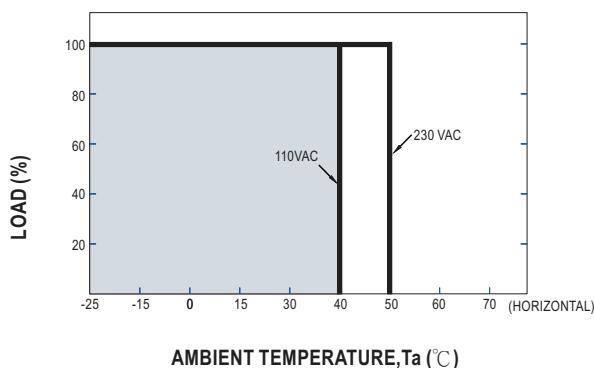


※ PUSH dimming (primary side)

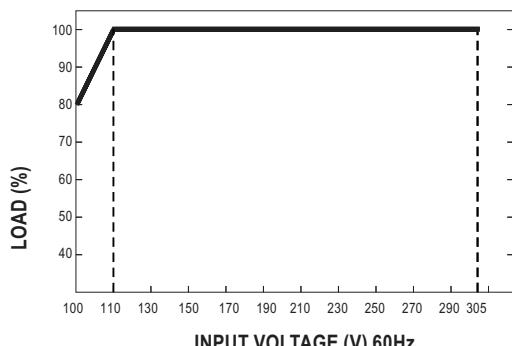
- The factory default dimming level is at 100%.
- If the push action lasts less than 0.05 sec., it will not lead to a change for the status of the driver.
- Up to 10 drivers can perform the PUSH dimming at the same time when utilizing one common push button.
- The maximum length of the cable from the push button to the last driver is 20 meters.

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

■ OUTPUT LOAD vs TEMPERATURE

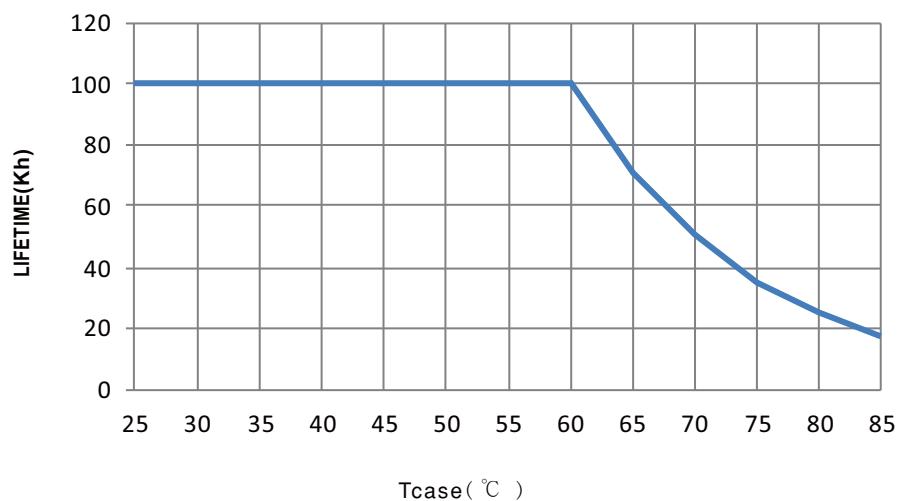


■ STATIC CHARACTERISTIC



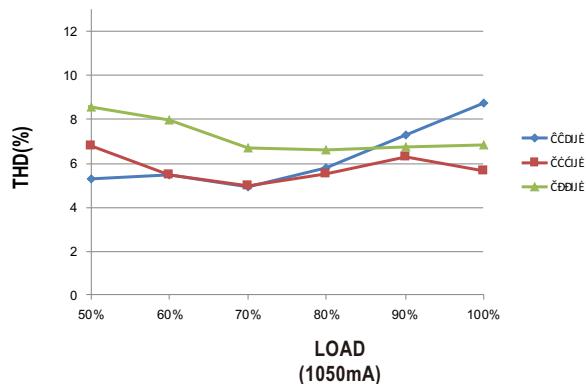
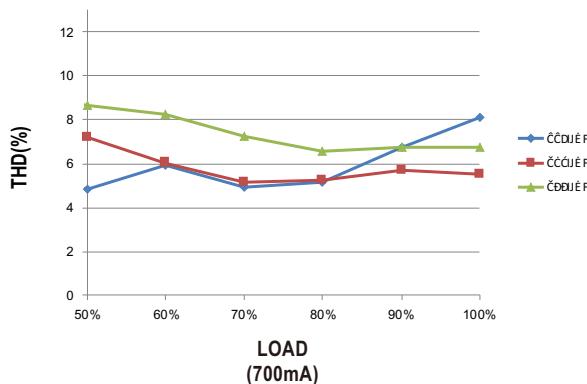
※ De-rating is needed under low input voltage.

■ LIFE TIME



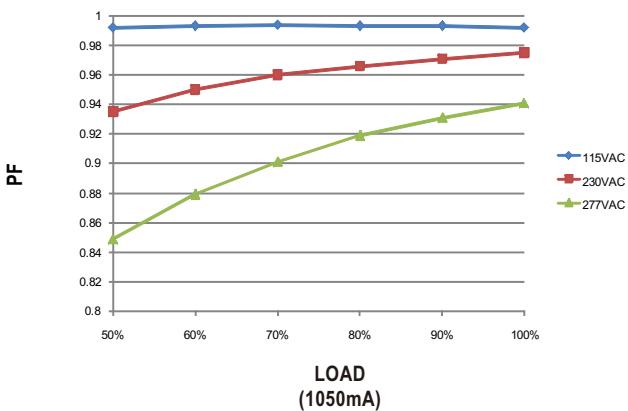
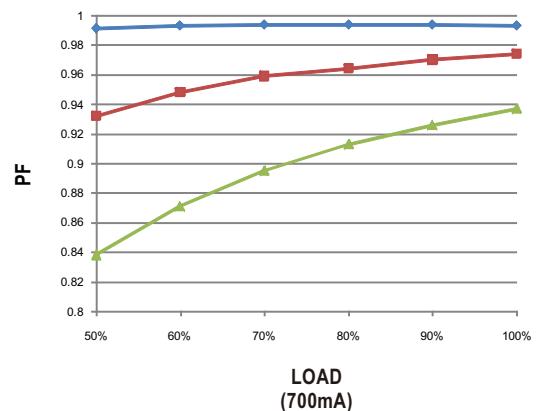
■ TOTAL HARMONIC DISTORTION (THD)

※ XLN-25-H, Tcase at 75°C



■ POWER FACTOR (PF) CHARACTERISTIC

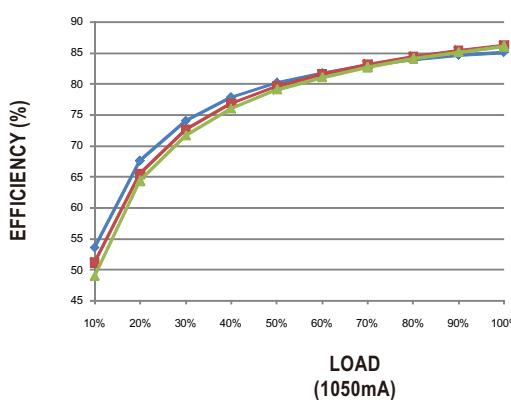
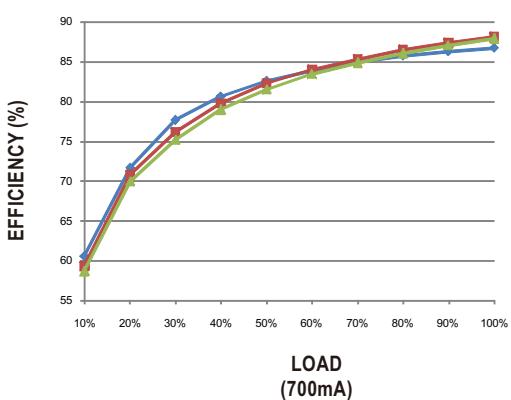
※ XLN-25-H, Tcase at 75°C



■ EFFICIENCY vs LOAD

XLN-25 series possess superior working efficiency that up to 88% can be reached in field applications.

※ XLN-25-H, Tcase at 75°C



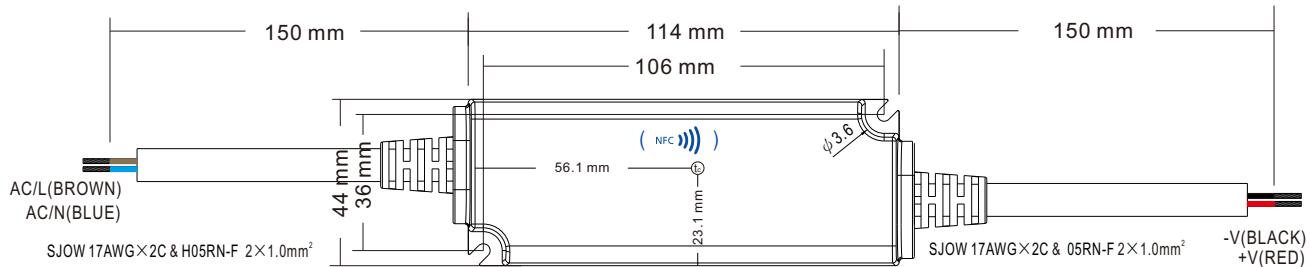
■ MECHANICAL SPECIFICATION

Case No.XLN-25

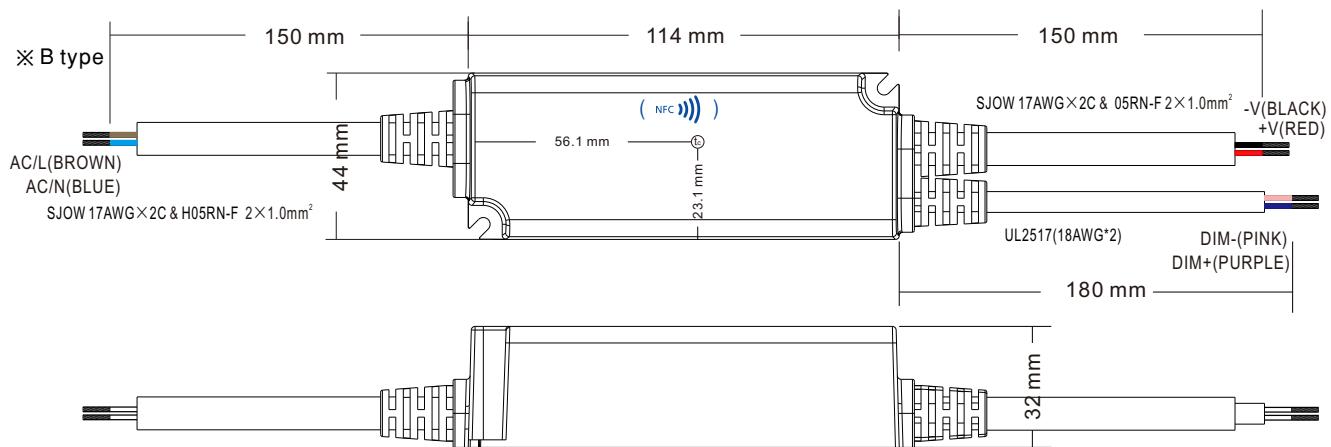
Unit:mm

 Tolerance: ± 1

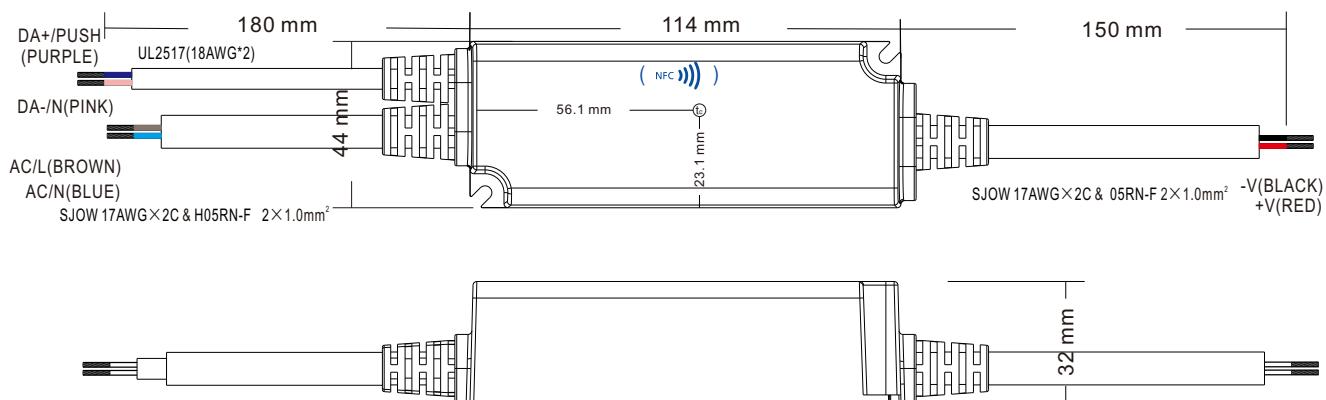
※ Blank type



※ B type



※ DA2 type



■ Installation Manual

 Please refer to : <http://www.meanwell.com/manual.html>