

Наличие и актуальные цены на

XLN-25-24

https://www.mean-well.ru/store/XLN-25-24/







































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

Applications

- · Recessed Light
- · Down Light
- · Panel Light
- · Commercial Lighting
- · Decorative Lighting
- · LED strip lighting
- · DALI digital Lighting

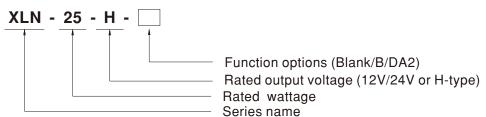
GTIN CODE

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

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 $^{\circ}$ C ~85 $^{\circ}$ 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



Type	Function	Note
Blank	H type output current selectable by NFC setting with constant power mode	
Dialik	12, 24V Constant voltage output	In stock
В	H type output current selectable by NFC setting and built in 3 in 1 dimming	III Stock
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		VI N 05 40	VI N 05 04			
MODEL		XLN-25-12	XLN-25-24			
	RATED VOLTAGE	12V	24V			
	RATED CURRENT	2.1A	1.05A			
	RATED POWER Note.2	25.2W	25.2W			
OUTPUT	RIPPLE & NOISE (max.) Note.3		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				
	INRUSH CURRENT(Typ.)	COLD START 10A(twidth=100µs measured a	t 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				
	OVER LOAD	105 ~ 220% rated output power				
	OVER LOAD	Protection type:Hiccup mode, recovers auton	natically after fault condition is removed			
PROTECTION	SHORT CIRCUIT	Hiccup mode, recovers automatically after fau	ult condition is removed			
ROTECTION	OVEDVOLTACE	13 ~ 16V	26 ~ 32V			
	OVER VOLTAGE	Shut down and latch off o/p voltage, re-power of				
	OVER TEMPERATURE	Shut down output voltage, recovers automatically after fault condition is removed				
	WORKING TEMP.	Tcase=-25 ~ 85°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)				
	MAX. CASE TEMP.	Tcase=85°C				
NVIDONMENT	WORKING HUMIDITY	20 ~ 90% RH non-condensing				
NVIRONMENT	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 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, BIS IS15885(Part2/Sec13)(NOTE 13), 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			
		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%		
SAFETY &		Voltage Flicker	BS EN/EN61000-3-3			
EMC		BS EN/EN61547		-		
	EMC IMMUNITY	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 2, 1KV/Line-Line		
		Conducted	BS EN/EN61000-4-5	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.6	$PstLM \leqslant 1, SVM \leqslant 0.4$				
OTHERS	MTBF	3949.8 K hrs min. Telcordia SR-332 (Bello	ore); 338.5 Khrs min. MIL-HDBK-217	F (25°C)		
3	DIMENSION	114*44*32mm (L*W*H)				
	PACKING	320g; 40pcs/13.5Kg/0.95CUFT				
NOTE		ally mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature.				

- All parameters NO1 specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature.
 De-rating may be need under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.
 Ripple & noise are measured at 20MHz of bandwidth by using a 12' twisted pair-wire terminated with a 0.1uF & 47uF parallel capacitor.
 Tolerance: includes set up tolerance, line regulation and load regulation.
 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.

- 5. Erlight of set up time 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//Jpload/PDF/EMI_statement_en.pdf)
- (as available of THUS.//www.theanlwell.com//cpioac/PDP/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 Tease, particularly (i) 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.

- 13. Products sourced from the China regions may not have the BIS logo, please contact your MEAN WELL sales for more information.

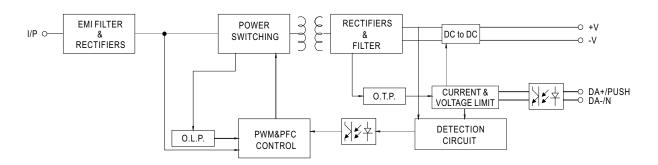


SPECIFICATION

MODEL		XLN-25-H-				
	OPEN CIRCUIT	60V				
OUTPUT	VOLTAGE Note.2					
	CURRENT ADJ.RANGE	700mA 0.3~1.05A				
	(BY NFC) CONSTANT CURRENT	9-54V				
	REGION Note.3					
	RATED POWER Note.4	25W				
	CURRENT RIPPLE CURRENT TOLERANCE	<4% ±5%				
	DIMMING RANGE	0~100%				
	SETUP, RISE TIME Note.5,6	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	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 AC CURRENT	88% 0.35A/145VAC 0.18A/230VAC 0.15A/277VAC				
		0.35A / 115VAC				
	INRUSH CURRENT(Typ.) MAX. No. of PSUs on 16A	COLD START 10A(twidth=100µs measured at 50% Ipeak) at 230VAC; Per NEMA 410				
	CIRCUIT BREAKER	71 units (circuit breaker of type B) / 71 units (circuit breaker of type C) at 230VAC				
	LEAKAGE CURRENT	<0.75mA/277VAC				
	STANDBY POWER CONSUMPTION Note.8	Standby power consumption<0.5W(Dimming off)				
	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed				
ROTECTION	OVER TEMPERATURE	71 0 1	ut level. Recovers automatically after fault condition is			
		DA2 type: Stage 1: De-rating to 75% loading; Stage 2: De-rating to 50% loading. Recovers automatically after fault condition is removed.				
	WORKING TEMP. MAX. CASE TEMP.	Tcase=-25 ~ 85°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section) Tcase=85°C				
	WORKING HUMIDITY	20 ~ 90% RH non-condensing				
NVIRONMENT	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 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, BIS IS15885(Part2/Sec13)(NOTE 13), 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	UP-0/P:3.75KVAC				
SAFETY &	ISOLATION RESISTANCE	I/P-O/P:>100M Ohms / 500VDC / 25°C / 7	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/EN/61000-3-2 , GB17625.1	Class C @load≥50%		
		Voltage Flicker BS EN/EN61547	BS EN/EN61000-3-3			
		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		1		
OTHERS	MTBF DIMENSION	3949.8 K hrs min. Telcordia SR-332 (Bellcore); 338.5 Khrs min. MIL-HDBK-217F (25°C)				
	PACKING	320g; 40pcs/13.5Kg/0.95CUFT				
NOTE	Output hiccups under no-load of a Please refer to "DRIVER METH 4. De-rating may be need under lo 5. Length of set up time is measure 6. Based on IEC 62386-101/102 E power on function, otherwise the 7. Efficiency is measured at 500m. 8. Standby power consumption is 9. Flicker is measured at full load vome 10. The driver is considered as a constallation, the final equipmen.	ondition. ODS OF LED MODULE". w input voltages. Please refer to "STATIC ed at first cold start. Turning ON/OFF the NAIL power on timing and interruption regule startup time will be higher than 0.5 secon A/SOV by NFC. measured at 230VAC. with the light source provided by MEAN Womponent that will be operated in combination transing the communicaturers must re-qualify EMC Direcenwell.com//Upload/PDF/EMI statement	driver may lead to increase of the set up time. lations, the set up time needs to test with a DALI control. ELL. ation with final equipment. Since EMC performance with citive on the complete installation again.	ll be affected by the complete		

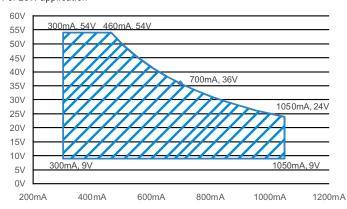


■ BLOCK DIAGRAM



■ DRIVING METHODS OF LED MODULE

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	lo
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.

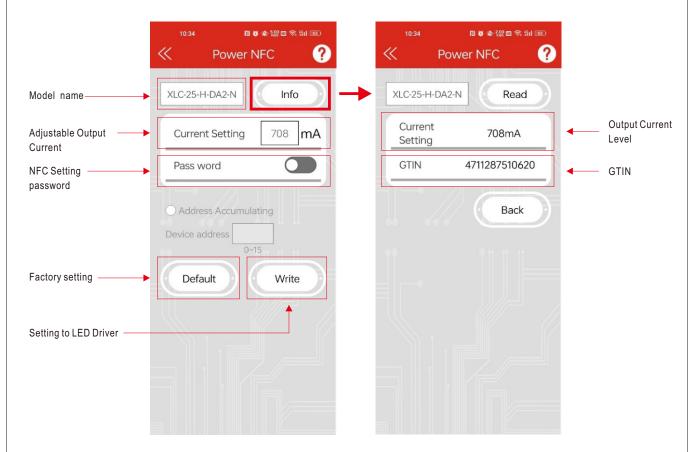


■ NFC Function Description

- 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.

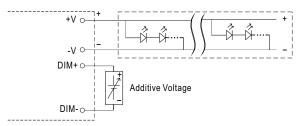


■ DIMMING OPERATION

B type

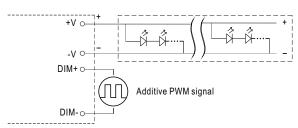
% 3 in 1 dimming function

- 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 μ A (typ.)



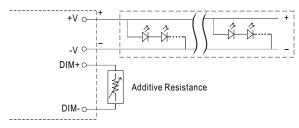
"DO NOT connect "DIM- to -V"

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

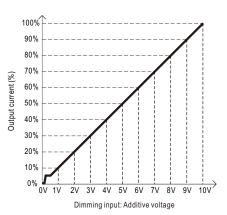


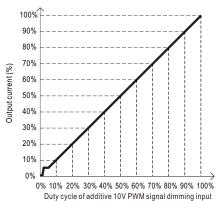
"DO NOT connect "DIM- to -V"

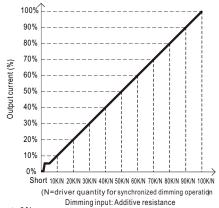
 \bigcirc Applying additive resistance: 0~100k Ω



"DO NOT connect "DIM- to -V"







Note: 1. Min. dimming level is about 8% and the output current is not defined when 0% < Iout < 8%.

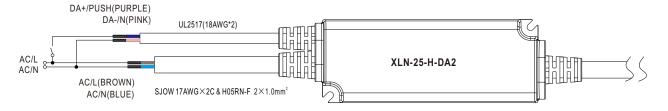
2. The output current could drop down to 0% when dimming input is about 0kΩ or 0Vdc, or 10V PWM signal with 0% duty cycle.

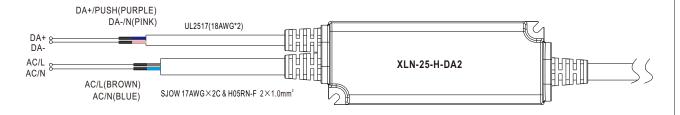


■ DIMMING OPERATION

O DA2 type (DALI-2 digital dimming function)

※ Input wiring diagram





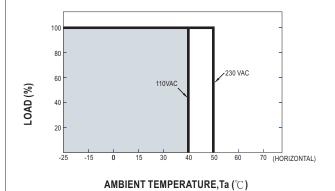
☆ PUSH dimming (primary side)

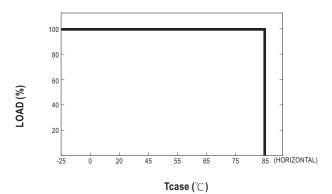
- The factory default dimming level is at 100%.
- If the push action lasts less than 0.05 sec., it will not lead to a change for the status of the driver.
 Up to 10 drivers can perform the PUSH dimming at the same time when utilizing one common push button.
- The maximum length of the cable from the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

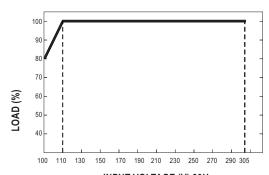


■ OUTPUT LOAD vs TEMPERATURE

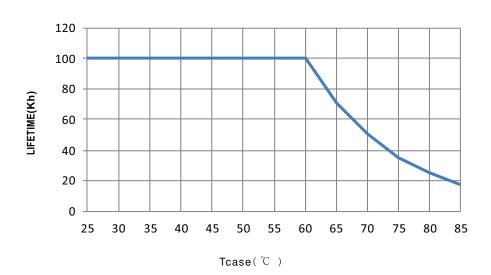




■ STATIC CHARACTERISTIC



■ LIFE TIME





■ TOTAL HARMONIC DISTORTION (THD) ※ XLN-25-H,Tcase at 75 ° C 12 12 10 10 THD(%) THD(%) -115VAC 230VAC **---** 230VAC <u>→</u> 277VAC 277VAC 2 70% 100% 50% 60% 70% 80% 90% 100% 50% 60% 80% 90% LOAD LOAD (1050mA) (700mA) **■ POWER FACTOR (PF) CHARACTERISTIC** ※ XLN-25-H,Tcase at 75° C 115VAC 0.9 出 F 230VAC 230VAC 0.88 0.88 <u></u>277VAC <u></u>277VAC 0.86 0.84 0.84 0.82 0.82 0.8 60% 80% 60% 80% LOAD LOAD (1050mA) (700mA) ■ 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 **EFFICIENCY (%) EFFICIENCY (%)** 115VAC 115VAC 230VAC 65 230VAC 70 277VAC ----277VAC 60 65 55

LOAD

(700mA)

LOAD

(1050mA)



