

Наличие и актуальные цены на

XLN-25-12

https://www.mean-well.ru/store/XLN-25-12/



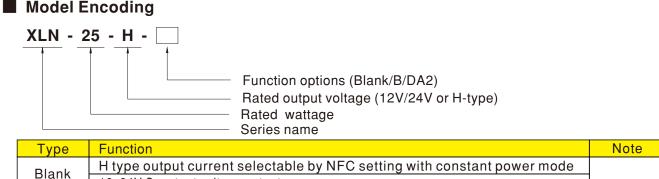
XLN-25 series



- 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 $^{\circ}$ 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.



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 SLOCK
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				
	RATED VOLTAGE	12V	24V				
	RATED CURRENT	2.1A	1.05A				
	RATED POWER Note.2	25.2W	25.2W				
OUTPUT	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					
	VOLTAGE RANGE	100 ~ 305VAC 141 ~ 400VDC					
	FREQUENCY RANGE	47~63Hz					
		4/ ~ 63HZ PF≥0.97/115VAC, PF≥0.95/230VAC, PF≥0.92/277VAC@full load					
	POWER FACTOR	(Please refer to "POWER FACTOR (PF					
	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.)	86%	88%				
	AC CURRENT	0.35A/115VAC 0.18A/230VAC 0).15A/277VAC				
	INRUSH CURRENT(Typ.)						
		COLD START 10A(twidth=100µs measured at 50% lpeak) at 230VAC; Per NEMA 410					
	MAX. No. of PSUs on 16A	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					
			automatically after fault condition is remov	ed			
ROTECTION	SHORT CIRCUIT	Hiccup mode, recovers automatically af					
	OVER VOLTAGE	13 ~ 16V	26 ~ 32V				
	OVERVOEINGE	Shut down and latch off o/p voltage, re-power on to recover					
	OVER TEMPERATURE	Shut down output voltage, recovers auto	matically after fault condition is removed				
	WORKING TEMP.	Tcase=-25 ~ 85 $^\circ\!\mathrm{C}$ (Please refer to " OUT	PUT LOAD vs TEMPERATURE" section)				
	MAX. CASE TEMP.	Tcase=85℃					
	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-0/P:3.75KVAC					
	ISOLATION RESISTANCE	I/P-O/P:>100M Ohms / 500VDC / 25°C	/70% RH				
	ISOLATION REDISTANCE	Parameter	Standard	Test Level/Note			
	EMC EMISSION	Conducted	BS EN/EN55015(CISPR15),GB/T				
	ENIC ENISSION	Radiated	BS EN/EN55015(CISPR15), GB/T				
SAFETY &		Harmonic Current	BS EN/EN61000-3-2 , GB17625.1	Class C @load≥50%			
EMC		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 contac			
		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 period			
	FLICKER Note.6	$PstLM \leq 1, SVM \leq 0.4$					
	MTBF	PStLM ≥ 1, SVM ≥ 0.4 3949.8 K hrs min. Telcordia SR-332 (Bellcore) ; 338.5 Khrs min. MIL-HDBK-217F (25°C)					
OTHERS	DIMENSION	114*44*32mm (L*W*H)					
	PACKING	320g; 40pcs/13.5Kg/0.95CUFT					
NOTE				etails. & 47uF parallel capacitor. et up time. a switch without permanently connected to the m C performance will be affected by the complete			

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

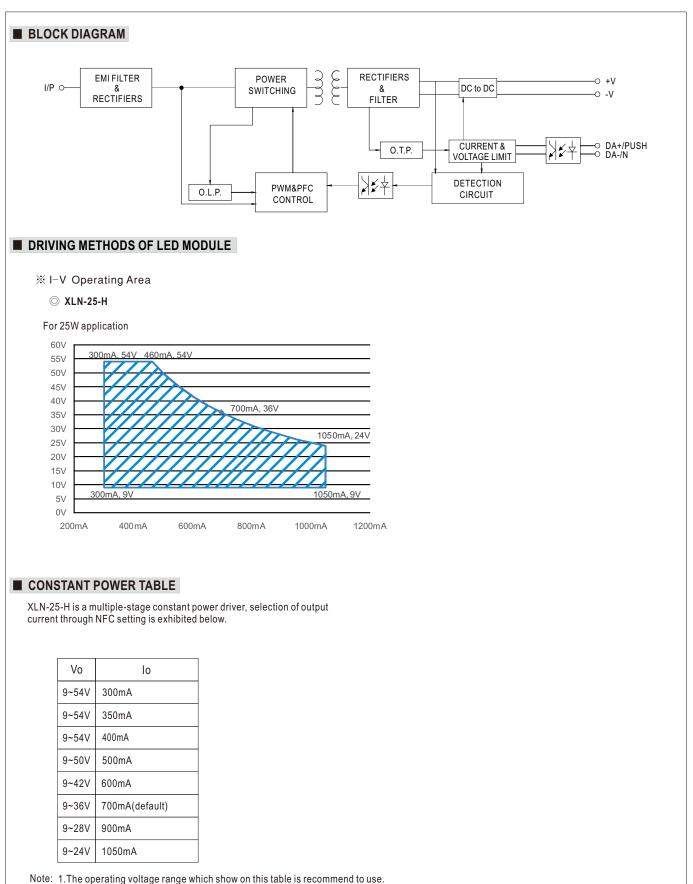


SPECIFICATION

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 SETUP, RISE TIME Note.5,6	0~100% 500ms, 100ms/230VAC, 1000ms, 100ms/115VAC					
	VOLTAGE RANGE						
	FREQUENCY RANGE	100 ~ 305VAC 141 ~ 400VDC 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	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					
	STANDBY POWER CONSUMPTION Note.8	Standby power consumption<0.5W(Dimming off)					
DOTEOTION	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault of					
ROTECTION	OVER TEMPERATURE	71 0 1	. Recovers automatically after fault condition is				
		Tcase=-25 ~ 85°C (Please refer to " OUTPUT LO	ge 2: De-rating to 50% loading. Recovers automat	ically after fault condition is removed.			
-	WORKING TEMP. MAX. CASE TEMP.	Tcase=85°C	AD VS TEMPERATURE Section)				
-	WORKING HUMIDITY	20 ~ 90% RH non-condensing					
INVIRONMENT	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	I/P-O/P:3.75KVAC					
SAFETY &	ISOLATION RESISTANCE	I/P-O/P:>100M Ohms / 500VDC / 25°C / 70% RI	4	1			
EMC		Parameter	Standard	Test Level/Note			
	EMC EMISSION	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%			
		Voltage Flicker	BS EN/EN61000-3-3				
		BS EN/EN61547					
		Parameter	Standard	Test Level/Note			
	EMC IMMUNITY	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 Conducted	BS EN/EN61000-4-5 BS EN/EN61000-4-6	Level 3, 1KV/Line-Line			
		Magnetic Field Voltage Dips and Interruptions	BS EN/EN61000-4-8 BS EN/EN61000-4-11	Level 2 70% residual voltage for 10			
	FLICKER Note.9	$PstLM \le 1$, $SVM \le 0.4$		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 $^\circ C$)				
	DIMENSION	114*44*32mm (L*W*H)					
	PACKING 1 All parameters NOT specially m	320g; 40pcs/13.5Kg/0.95CUFT entioned are measured at 230VAC input, rated c	urrent and 25°C of ambient temporature				
 NOTE 1. An parameters NOT specially memory memory measured at 200 vec input, fated carrent and 25 °C of ambient emperature. 2. Output hiccups under no-load condition. 3. Please refer to "DRIVER METHODS OF LED MODULE". 4. De-rating may be need under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. 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. Based on IEC 62386-101/102 DALI power on timing and interruption regulations, the set up time needs to test with a DALI controller which can support 1 power on function, otherwise the startup time will be higher than 0.5 second. 7. Efficiency is measured at 500mA/50V by NFC. 8. Standby power consumption is measured at 230VAC. 9. Flicker is measured at full load with the light source provided by MEAN WELL. 10. The driver is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the com Installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. (as available on https://www.meanwell.com/Upload/PDF/EM_statement_en.pdf) 11. 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(6500f 12. This series meets the typical life expectancy of >50,000 hours of operation when Tcase, particularly (© point (or TMP, per DLC), is about 70°C or less. 13. Products sourced from the China regions may not have the BIS logo, please contact your MEAN WELL sales for more information. 14. To fulfill requirements of the latest ErP regulation for lighting fixture, this LED driver can only be used behind a switch without permanently connected to to. Products sourced from the Americas regions may not have the CCC/PSE/BIS/KC logo. Please contact your MEAN WELL							
			s://www.meanwell.com/serviceDisclaimer.as	px File Name:XLN-25-SPEC 2024-12-			



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





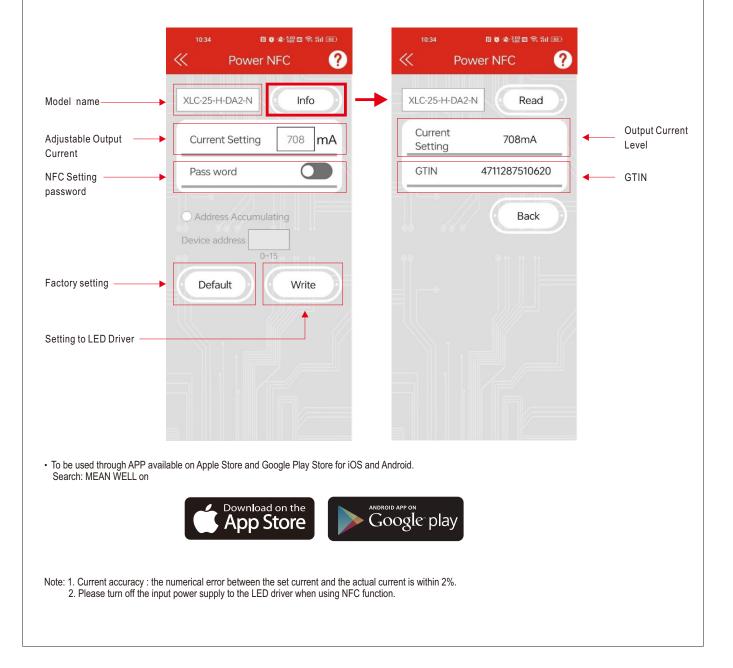
XLN-25 series

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:



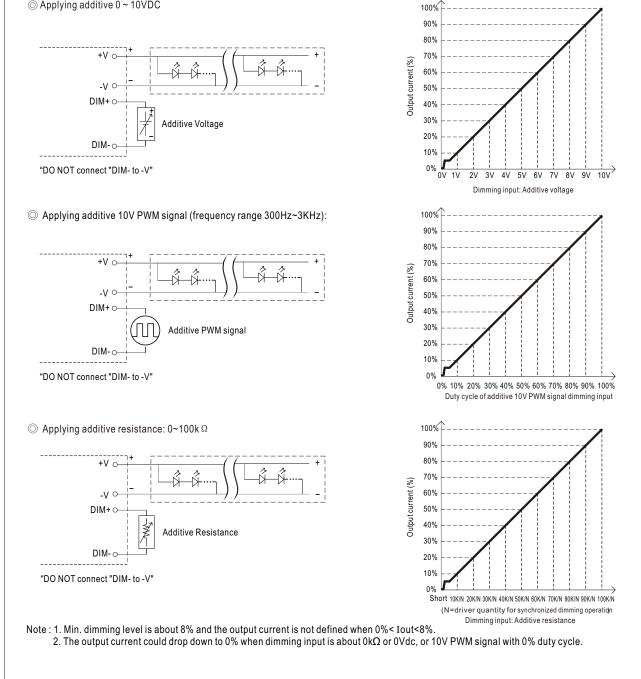


XLN-25 series

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: $100 \mu A (typ.)$
- Applying additive 0 ~ 10VDC

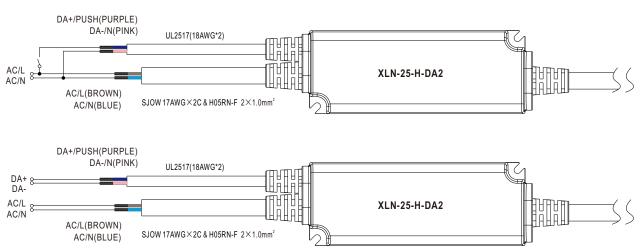




DIMMING OPERATION

◎ DA2 type (DALI-2 digital dimming function)

※ Input wiring diagram



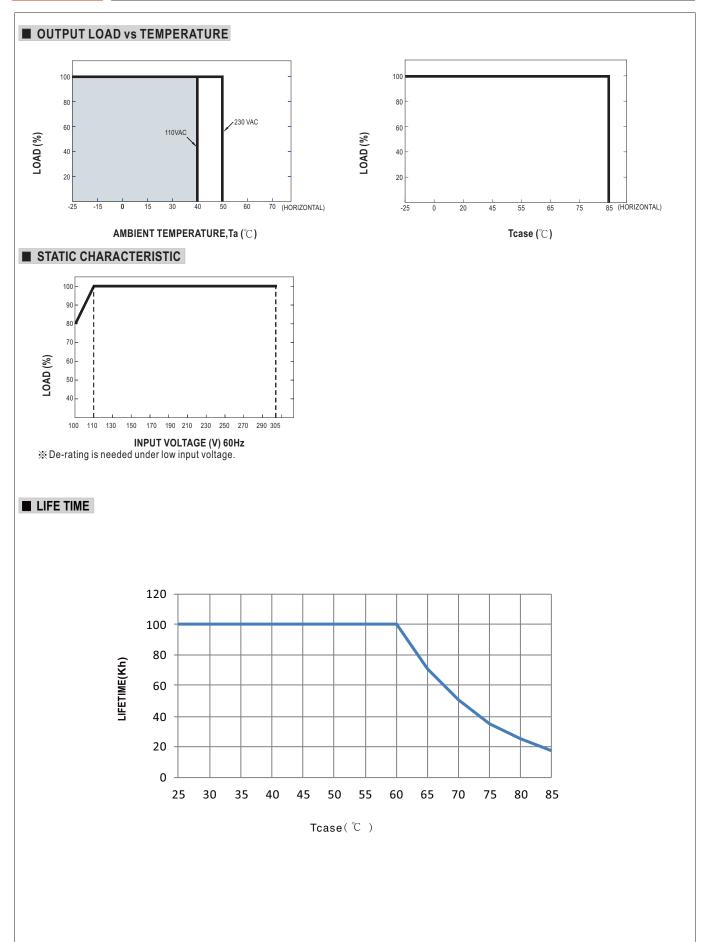
*****PUSH dimming (primary side)

• 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.

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







TOTAL HARMONIC DISTORTION (THD)

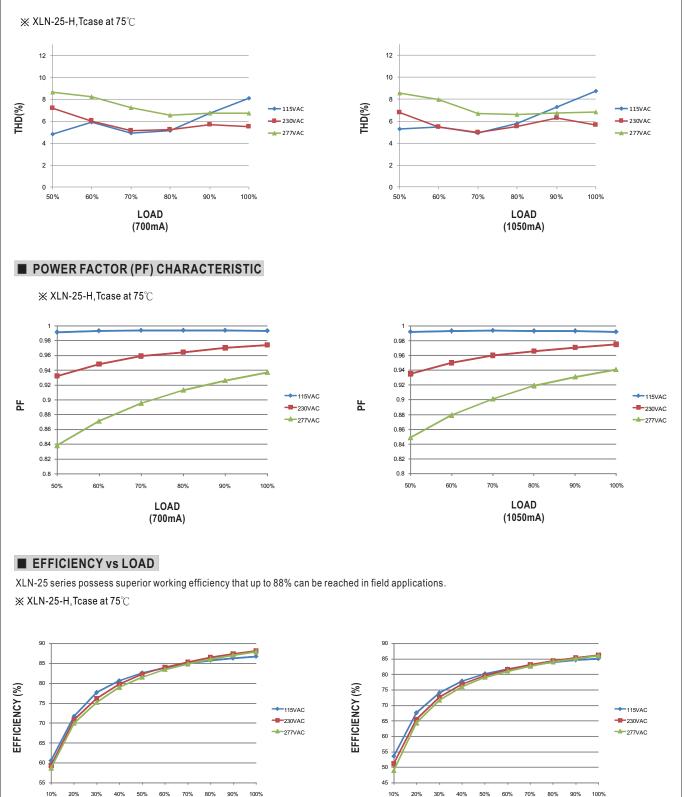
30% 40% 50%

70% 80% 90%

LOAD

(700mA)

100%



20% 30% 40% 80% 90%

70%

LOAD

(1050mA)



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

XLN-25 series

