

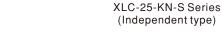








XLC-25-KN Series (Built-in type)



















## Features

- · Constant power mode output with multiple stage selectable by ETS database
- Plastic housing with class II and PFC design
- · Flicker free, complying with CE ErP directive
- Standby power consumption < 0.5W</li>
- Meet emergency lighting (EL) application
- KNX/EIB protocol, support KNX data secure
- Minimum dimming level 0.5%
- Function:operation hours, power consumption feedback, log/linear curve selection...etc
- · 5 years warranty

# Applications

- · Recessed Light
- Down Light
- Panel Light
- · Commercial Lighting
- Decorative Lighting
- · KNX digital Lighting

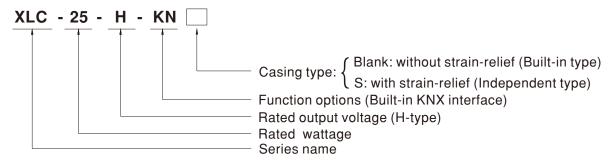
## GTIN CODE

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

# Description

XLC-25-KN Series is a 25W with constant power output LED driver . It can operate from 100~305VAC and output current ranging between 300 mA to 1050 mA selectable by ETS database. The integrated KNX interface avoids using the compliated KNX-DALI gateway. Thanks to high efficiency up to 88%, it is able to operate for-25  $^\circ$  ~85  $^\circ$  case temperature under free air convection. XLC-25-KN is designed based on latest safety regulations, and provides more flexibility for LED Lighting application.

# ■ Model Encoding



Туре	Function	Note
KN	Built-in KNX interface, with standby power consumpution < 0.5W	In stock

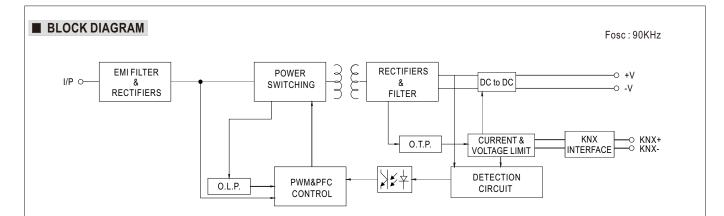


25W Multiple-Stage Constant Power LED Driver

# **SPECIFICATION**

MODEL		XLC-25-H-KN					
	OPEN CIRCUIT VOLTAGE Note.2						
	DEFAULT CURRENT	300mA					
	CURRENT ADJ.RANGE	0.3~1.05A					
OUTPUT	(BY ETS Database)	0.3~1.05A					
0011 01	CONSTANT CURRENT	9~54V					
	REGION Note.3 RATED POWER Note.4	25W					
	CURRENT RIPPLE	<4%(@full load)					
	CURRENT TOLERANCE	±5%					
	DIMMING RANGE	0~100%					
	SETUP, RISE TIME Note.5	500ms, 100ms/230VAC, 1000ms, 100ms/115VAC					
	VOLTAGE RANGE	100~305VAC 141~400VDC					
İ	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) THD<10%(@load≥50%/230VAC; @load≥75%/277VAC), THD<15%(@load≥50%/115VAC)					
	TOTAL HARMONIC DISTORTION	(Please refer to "TOTAL HARMONIC DISTORTION(THD)" section)					
INPUT	EFFICIENCY (Typ.) Note.6	88%					
	AC CURRENT	0.35A / 115VAC					
	INRUSH CURRENT(Typ.)	COLD START 10A(twidth=100µs measured at 50% Ipeak) 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					
	CIRCUIT BREAKER						
	LEAKAGE CURRENT	<0.75mA / 277VAC					
	STANDBY POWER CONSUMPTION Note.7	Standby power consumption<0.5W(Dimming off)					
	SHORT CIRCUIT	Hiccup mode, recovers automatically aft	ter fault condition is removed				
ROTECTION	OVER TEMPERATURE	Stage 1: De-rating to 75% loading; Stage 2: De-rating to 50% loading. 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					
	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 fo	•				
	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; GB/T19510.1, GB/T19510.213, EAC TP TC 004 approved; Design refer to AS/NZS 61347-1, AS/NZS 61347-2-13					
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC					
	ISOLATION RESISTANCE	I/P-O/P:>100M Ohms / 500VDC / 25°C					
SAFETY &		Parameter	Standard	Test Level/Note			
EMC		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		I			
		Parameter	Standard	Test Level/Note			
		ESD Particular	BS EN/EN61000-4-2	Level 3, 8KV air ; Level 2, 4KV contact			
	EMC IMMUNITY	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			
	KNX	Certified protocol					
	FLICKER Note.8	$PstLM \leqslant 1, SVM \leqslant 0.4$					
OTHERS	MTBF	3949.8 K hrs min. Telcordia SR-332 (Bellcore); 338.5 Khrs min. MIL-HDBK-217F (25℃)					
	DIMENSION PACKING	147*40*32mm,107*40*32mm (L*W*H)  141.6g; 60pcs/9.5Kg/0.58CUFT(for blank type); 160g; 50pcs/9Kg/0.57CUFT(for S-type)					
			ated current and 25°C of ambient temperature.				
NOTE	Output hiccups under no-load of the property of the prope	condition.  HODS OF LED MODULE".  ow input voltages. Please refer to "STATIC of red at first cold start. Turning ON/OFF the dr. 14/50V output set by ETS database.  measured at 230VAC.  with LED modules.  component that will be operated in combination that manufacturers must re-qualify EMC Direct neanwell.com//Upload/PDF/EMI_statement_CM is on a voluntary basis and meets relevance.	CHARACTERISTIC" sections for details. river may lead to increase of the set up time.  on with final equipment. Since EMC performance will ive on the complete installation again. en.pdf) ant IEC or AS/NZS standards complying with AS/NZS spendent LED control gear is not suitable for residentia	4417.1. al installations.			



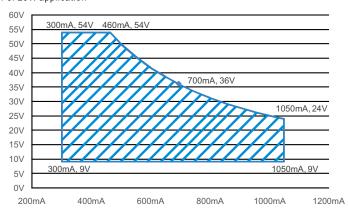


## ■ DRIVING METHODS OF LED MODULE

#### **%** I-V Operating Area

### ○ XLC-25-H-KN

### For 25W application



## ■ CONSTANT POWER TABLE

 $\rm XLC\text{-}25\text{-}KN$  is a multiple-stage constant power driver, selection of output current through Database.

Vo	lo	Vo	lo
9~54V	300mA(Default)	9~36V	700mA
9~54V	350mA	9~33V	750mA
9~54V	400mA	9~31V	800mA
9~50V	450mA	9~29V	850mA
9~50V	500mA	9~28V	900mA
9~45V	550mA	9~26V	950mA
9~42V	600mA	9~25V	1000mA
9~38V	650mA	9~24V	1050mA



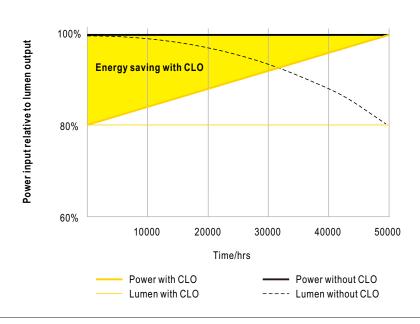
## ■ DIMMING OPERATION

### ★ KNX interface

- · Apply KNX Bus cable between KNX+ and KNX-
- The application program(database) can be downloaded via Online Catalogs from ETS or via http://www.meanwell.com/productCatalog.aspx

Parametrization options	Description
Device Setting	Select current level Select model Behavior bus power up
Parameter Setting	Basic Setting  normal Dimmer, staircase light  switch function  relative dimming function  absolution dimming function  Feedback Setting  dimming value report  on/off state report  lamp failure report  Lock function
Scenes	•Learn scene •scene1~scene32
Automatic function	•Automatic function1~4
operating hours	Counting of operating hours Constant light output(CLO) Life time pre-warning
Power consumption	Voltage, current, power feedback     Energy consumption feedback
Temperature Measurement	• customize the alarm temperature • Send temperature report cyclically
Auto-dimming over time	Optional gradient dimming
Correction characteristic	Correction by lux measured value(lux)
Push Dim Port	• Push dim • AC monitor

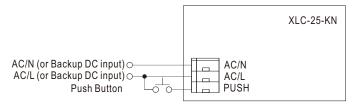
#### **X** CONSTANT LIGHT OUTPUT





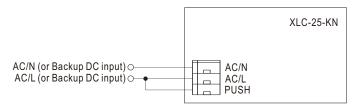
### PUSH dimming or AC/DC input monitor(Primary side)

#### O PUSH dimming



- KNX bus need to be connected when using PUSH Dimming
- The detailed function of PUSH dimming, please refer to the database.
- The maximum length of the cable between the push button and driver is 20 meters.
- The mechanical push button can be connected only between the PUSH terminal, as displayed in the diagram, and AC/L (in brown or black); It will not function properly if it is connected to AC/N.
- In case the PUSH dimming is set locally, up to 10 drivers can perform the PUSH dimming at the same time when utilizing one common push button.
- In case the PUSH dimming is set independently via ETS, the number of drivers is done through group address and determined by the ETS project designer.

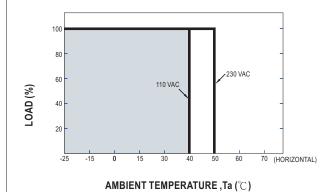
## O AC/DC input monitor

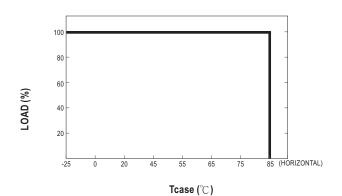


- KNX bus need to be connected when using AC/DC input monitor
- The detailed function of AC/DC input monitor(emergency lighting), please refer to the database and instruction manual.

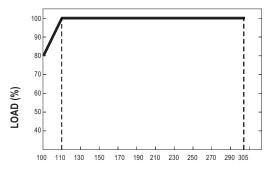


## ■ OUTPUT LOAD vs TEMPERATURE





## ■ STATIC CHARACTERISTIC



INPUT VOLTAGE (V) 60Hz

※ De-rating is needed under low input voltage.

## ■ LIFE TIME

