



XLC-25-KN-S Series (Independent type)





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
- 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

### Applications

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

GTIN CODE

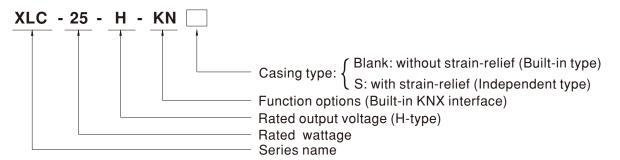
MW Search: https://www.meanwell.com/serviceGTIN.aspx

• 5 years warranty

### 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  $25^{\circ}$ C ~85°C 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



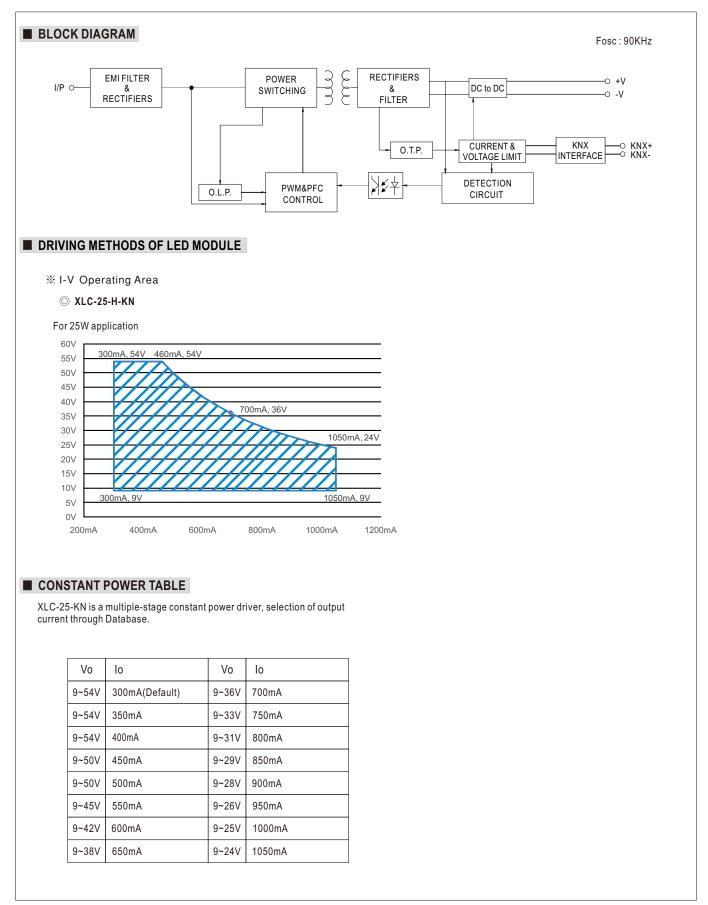
Туре	Function	Note
KN	Built-in KNX interface, without strain-relief (Built-in type)	In stock
KNS	Built-in KNX interface, with strain-relief (Independent type)	In stock



### SPECIFICATION

MODEL		XLC-25-H-KN				
	OPEN CIRCUIT	60V				
	VOLTAGE Note.2 DEFAULT CURRENT	300mA				
	CURRENT ADJ.RANGE					
OUTPUT	(BY ETS Database)	0.3~1.05A				
OUIFUI	CONSTANT CURRENT	9~54V				
	REGION Note.3	25W				
	RATED POWER Note.4	230V <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				
	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.6	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	Standby power consumption<0.5W(Dimming off)				
	CONSUMPTION Note.7					
ROTECTION	SHORT CIRCUIT	Hiccup mode, recovers automatically after fa		ally offer fault condition is removed		
	OVER TEMPERATURE WORKING TEMP.	Stage 1: De-rating to 75% loading; Stage 2: De-rating to 50% loading. Recovers automatically after fault condition is removed.				
	MAX. CASE TEMP.	Tcase=-25 ~ 85℃ (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)				
	WORKING HUMIDITY	Tcase=85℃ 20 ~ 90% RH non-condensing				
NVIRONMENT		-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; 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	24 DH			
O A F F T V A	ISOLATION RESISTANCE	I/P-O/P:>100M Ohms / 500VDC / 25°C / 70	% RH Standard	Test Level/Note		
SAFETY &		Parameter				
EMC	EMC EMISSION	Conducted Radiated	BS EN/EN55015(CISPR15), GB/T 17743			
		Harmonic Current	BS EN/EN55015(CISPR15),GB/T 17743 BS EN/EN61000-3-2,GB17625.1	Class C @load≥50%		
		Voltage Flicker	BS EN/EN61000-3-3			
		0	B3 EN/EN01000-3-3			
		BS EN/EN61547 Parameter	Standard	Teet Level/Nete		
				Test Level/Note		
		ESD Padiated	BS EN/EN61000-4-2	Level 3, 8KV air ; Level 2, 4KV contact		
	EMC IMMUNITY	Radiated	BS EN/EN61000-4-3	Level 2		
		EFT/Burst	BS EN/EN61000-4-4	Level 2		
		Surge	BS EN/EN61000-4-5	Level3, 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 FLICKER Note.8	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$				
OTHERS	MTBF	PSILM ≤ 1, SVM ≤ 0.4 3949.8 K hrs min. Telcordia SR-332 (Bellcore); 338.5 Khrs min. MIL-HDBK-217F (25°C)				
•	DIMENSION	147*40*32mm,107*40*32mm (L*W*H)				
	PACKING	141.6g; 60pcs/9.5Kg/0.58CUFT(for blank type); 160g; 50pcs/9Kg/0.57CUFT(for S-type)				
NOTE	<ol> <li>Output hiccups under no-load d</li> <li>Please refer to "DRIVER METH</li> <li>De-rating may be need under I</li> <li>Length of set up time is measu</li> <li>Efficiency is measured at 500m</li> <li>Standby power consumption is</li> <li>Flicker is measured at full load</li> <li>The driver is considered as a c installation, the final equipmer (as available on https://www.n.</li> <li>For XLC(except -S) series: RCM is on 11. This series meats the typical if series</li> </ol>	HODS OF LED MODULE". low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. ured at first cold start. Turning ON/OFF the driver may lead to increase of the set up time. nA/50V output set by ETS database. s measured at 230VAC.				







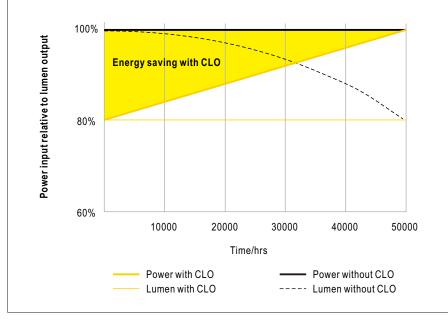
### DIMMING OPERATION

### ℅ KNX interface

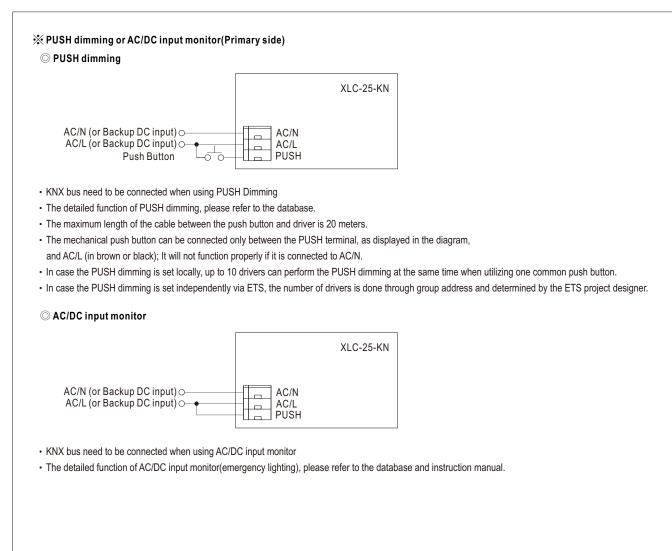
- Apply KNX Bus cable between KNX+ and KNX-
- The application program(database) can be downloaded via Online Catalogs from ETS or via http://www.meanwell.com/productCatalog.aspx

Parametrization options	Description
Device Setting	Select current level     Select model     Behavior bus power up
Parameter Setting	Basic Setting <ul> <li>normal Dimmer, staircase light</li> <li>switch function</li> <li>relative dimming function</li> <li>absolution dimming function</li> </ul> <li>Feedback Setting         <ul> <li>dimming value report</li> <li>on/off state report</li> <li>lamp failure report</li> </ul> </li> <li>Lock function</li>
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

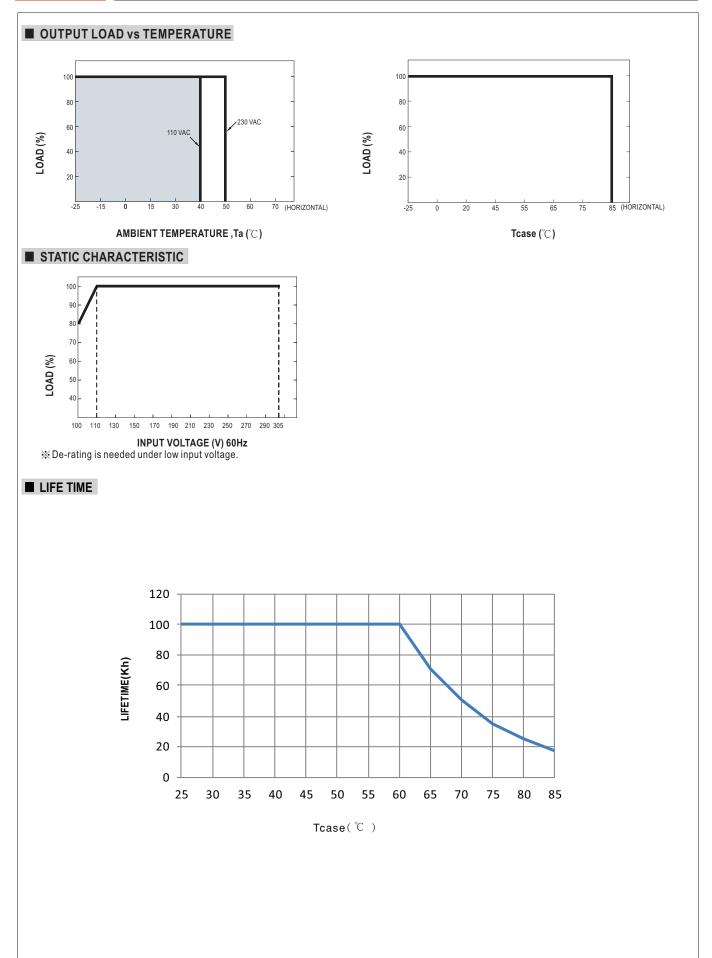
#### **※** CONSTANT LIGHT OUTPUT







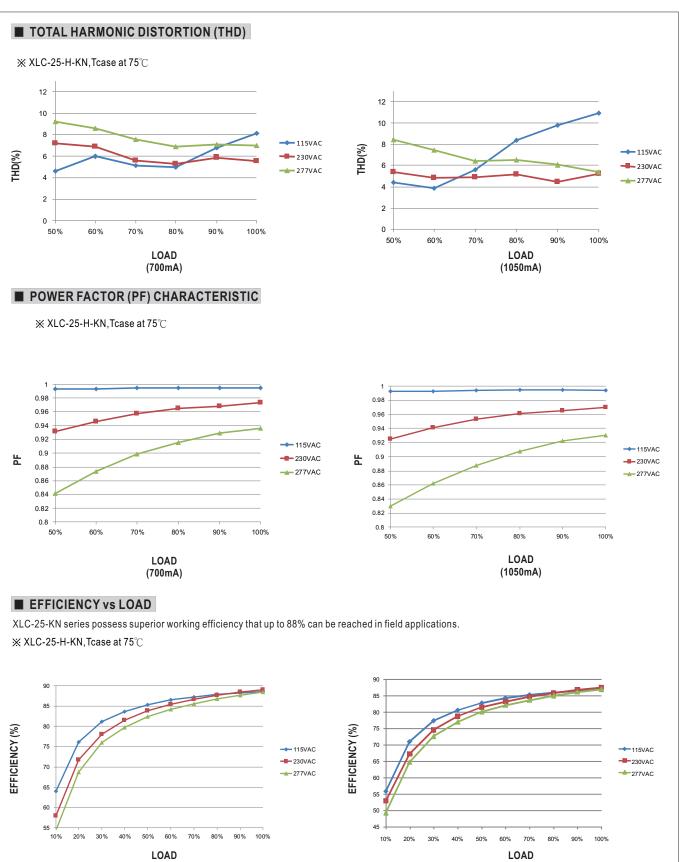






(700mA)

## XLC-25-KN series



(1050mA)



