





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

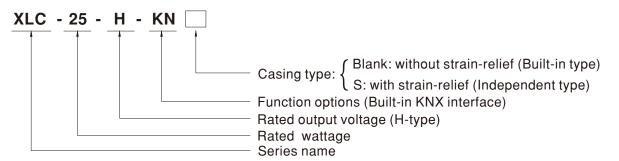
MW Search: https://www.meanwell.com/serviceGTIN.aspx

· 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 $^\circ$ ~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



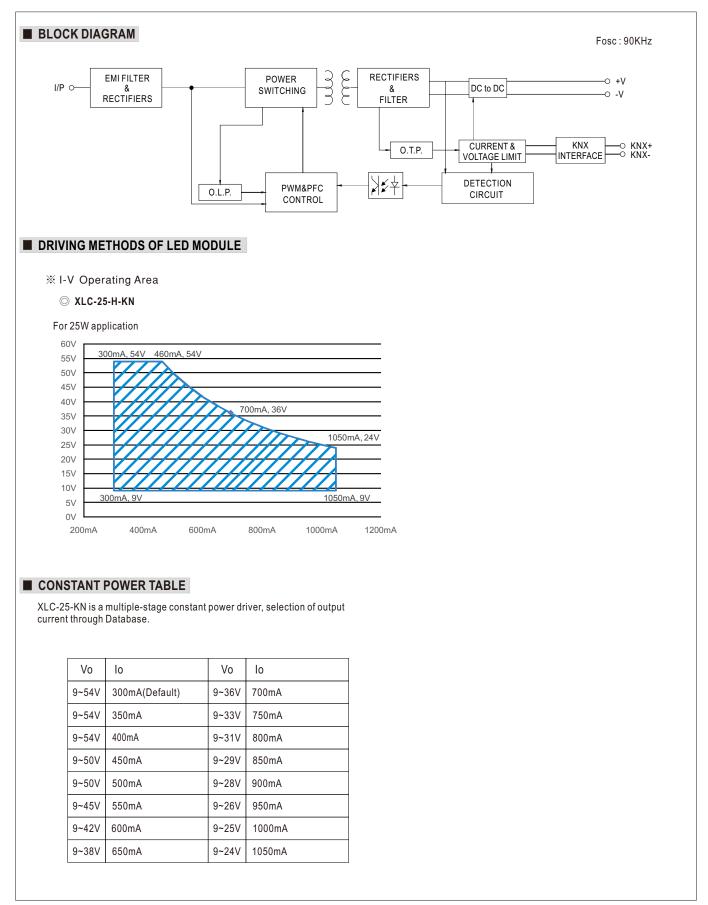
Туре	Function	Note
KN	Built-in KNX interface, without strain-relief (Built-in type)	In stock
KNS	Built-in KNX interface, with strain-relief (Independent type)	In stock



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				
001F01	CONSTANT CURRENT	9~54V				
	REGION Note.3	25W				
	RATED POWER Note.4	2500 <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) 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 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	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	Standby power consumption<0.5W(Dimming off)				
	CONSUMPTION Note.7	Hiccup mode, recovers automatically after fault condition is removed				
ROTECTION	SHORT CIRCUIT OVER TEMPERATURE		ating 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		-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				
	ISOLATION RESISTANCE	I/P-O/P:>100M Ohms / 500VDC / 25°C / 709				
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			
	EMCIMMUNITY	BS EN/EN61547	Of an dand	T		
		Parameter	Standard	Test Level/Note		
		ESD Padiated	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	Level3, 1KV/Line-Line		
		Conducted Magnetic Field	BS EN/EN61000-4-6 BS EN/EN61000-4-8	Level 2 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 (Bellco	ore); 338.5 Khrs min. MIL-HDBK-217F (25℃)		
-	DIMENSION PACKING	147*40*32mm,107*40*32mm (L*W*H)				
NOTE	1. All parameters NOT specially n 2. Output hiccups under no-load d 3. Please refer to "DRIVER METH 4. De-rating may be need under I 5. Length of set up time is measu 6. Efficiency is measured at 500n 7. Standby power consumption is 8. Flicker is measured at full load 9. The driver is considered as a c installation, the final equipmer (as available on https://www.n 10. For XLC(except -S) series: RCM is on 11.This series meats the typical II	HODS OF LED MODULE". ow input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. ired at first cold start. Turning ON/OFF the driver may lead to increase of the set up time. 1A/S0V output set by ETS database. measured at 230VAC.				







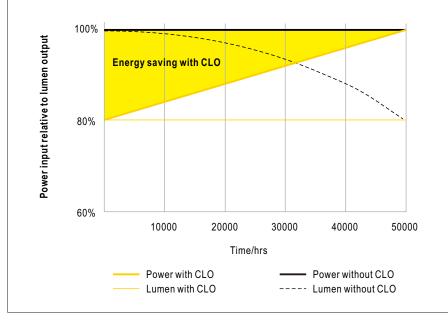
DIMMING OPERATION

℅ KNX interface

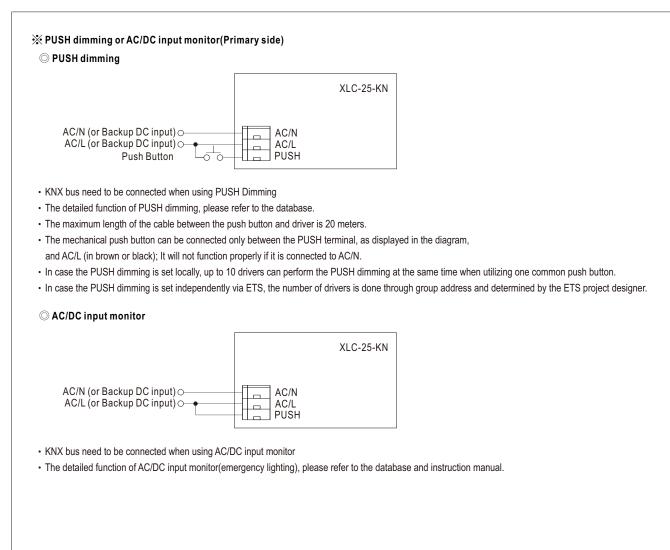
- Apply KNX Bus cable between KNX+ and KNX-
- The application program(database) can be downloaded via Online Catalogs from ETS or via http://www.meanwell.com/productCatalog.aspx

Parametrization options	Description
Device Setting	Select current level Select model Behavior bus power up
Parameter Setting	Basic Setting 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

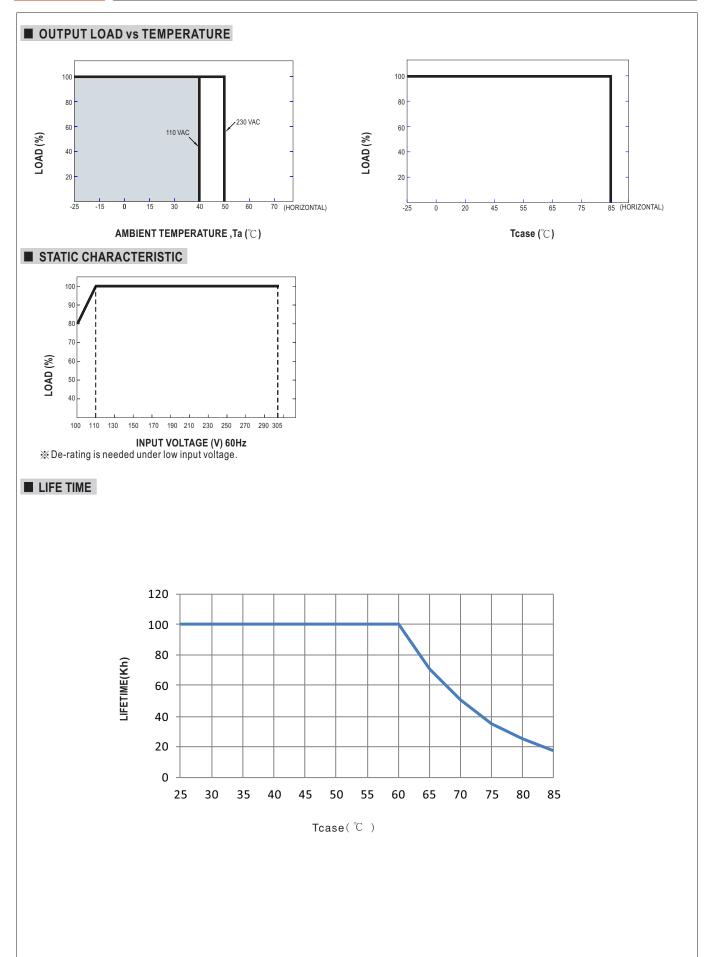
※ CONSTANT LIGHT OUTPUT







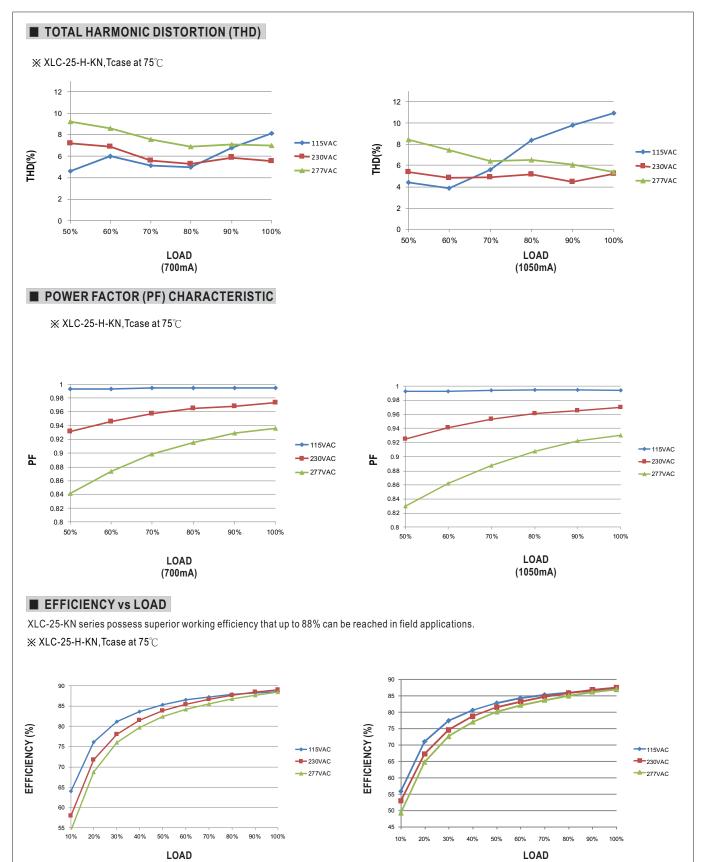






(700mA)

XLC-25-KN series



(1050mA)



