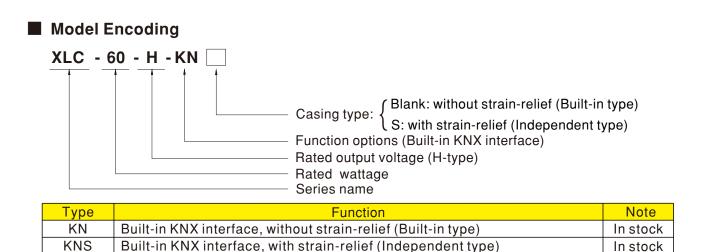


5 years warranty

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

### Description

XLC-60-KN Series is a 60W with constant power output LED driver. It can operate from 100 ~ 305VAC and output current ranging between 900mA to 1700mA selectable by ETS database and integration KNX interface to avoid using the compliated KNX-DALI gateway. Thanks to high efficiency up to 90%, it is able to operate for -25  $^{\circ}$ C ~90  $^{\circ}$ C case temperature under free air convection. XLC-60-KN is designed based on latest safety regulations, so it provides more flexibility for LED Lighting application.

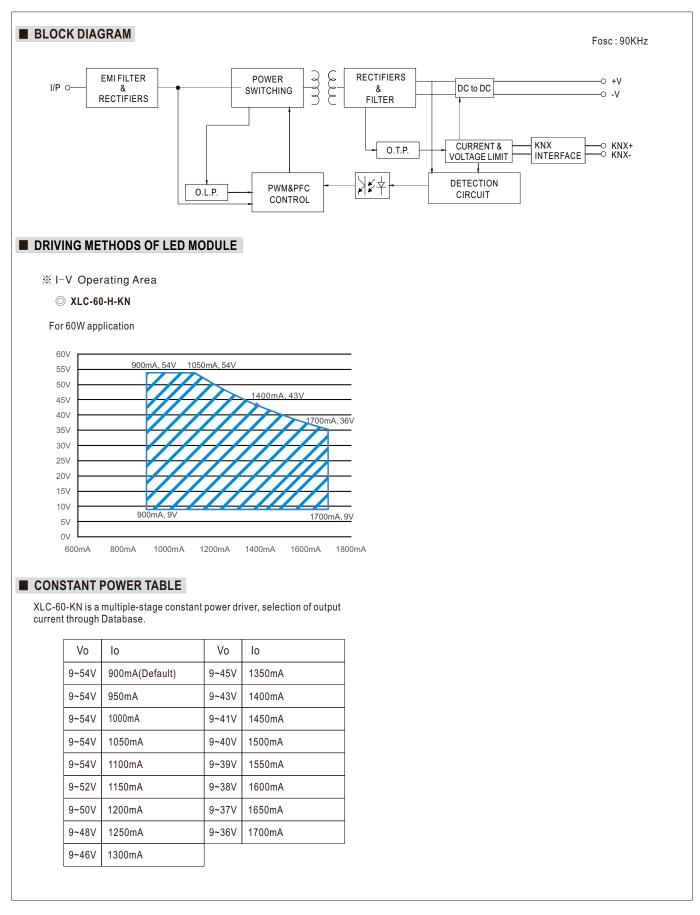




### SPECIFICATION

MODEL		XLC-60-H-KN				
	OPEN CIRCUIT VOLTAGE Note2	60V				
	DEFAULT CURRENT	900mA				
	CURRENT ADJ. RANGE	0.0.4.74				
	(BY ETS Database)	0.9~1.7A				
OUTPUT	CONSTANT CURRENT REGION	9~54V				
001101	RATED POWER Note.4	60W				
	CURRENT RIPPLE Note5	<4%				
	CURRENT TOLERANCE	±5%				
	DIMMING RANGE	0~100%				
	SETUP, RISE TIME Note.6	800ms,100ms/230VAC ,1000ms,100ms/115VAC				
	VOLTAGE RANGE	100 ~ 305VAC 155 ~400VDC				
	FREQUENCY RANGE	47~63Hz				
		PF≥0.95/115VAC, PF≥0.95/230VAC, PF≥0.9/277VAC@full load				
	POWER FACTOR	(Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)				
	TOTAL HARMONIC DISTORTION	THD<20%(@load ≥60%/230VAC; @load ≥75%/277VAC); THD<10%@load 100%/230VAC (Please refer to "TOTAL HARMONIC DISTORTION(THD)" section)				
	EFFICIENCY(Typ.) Note7	90%				
INPUT	AC CURRENT	0.75A/115VAC, 0.35A/230VAC, 0.3A/277VAC				
	INRUSH CURRENT	COLD START 15A(twidth=310µs measured at 50% lpeak) at 230VAC; Per NEMA 410				
	MAX. NO. of PSUs on 16A					
	CIRCUIT BREAKER	25 units (circuit breaker of type B) / 36 units (circuit breaker of type C) at 230VAC				
	LEAKAGE CURRENT	<0.75mA/277VAC				
	STANDBY POWER Note8					
	CONSUMPTION	Standby power consumption<0.5W (Dimming off)				
PROTECTION	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed				
PROTECTION	OVER TEMPERATURE	Stage 1: De-rating to 75% loading; Stage 2: De-rating to 50% loading. Recovers automatically after fault condition is removed.				
FUNCTION	DIMMING	Please refer to 'DIMMING OPERATION' section				
	DIMMING         Please refer to DIMMING OPERATION section           WORKING TEMP.         Tcase=-25~90°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)					
ENVIRONMENT	MAX. CASE TEMP.					
	WORKING HUMIDITY	Tcase=90°C				
		20 ~ 90% RH non-condensing				
	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		1347-2-13(EL) appendix J suitable for emergency in:			
			[19510.213, EAC TP TC 004 approved; Design refer to	0 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				
	EMC EMISSION	Parameter Conducted	Standard BS EN/EN55015(CISPR15), GB/T 17743	Test Level/Note		
		Radiated	BS EN/EN55015(CISPR15), GB/T 17743			
		Harmonic Current	BS EN/EN61000-3-2, GB17625.1	Class C @load≥60%		
		Voltage Flicker	BS EN/EN61000-3-3			
SAFETY&EMC		BS EN/EN61547				
	EMC IMMUNITY	Parameter	Standard	Test Level/Note		
		ESD Radiated	BS EN/EN61000-4-2 BS EN/EN61000-4-3	Level 3, 8KV air ; Level 2, 4KV contact Level 2		
		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		
	1/ADV	Cartified metagel		period, 0% residual voltage for 0.5 periods		
	KNX FLICKER Note.9	Certified protocol PstLM ≤ 1, SVM ≤ 0.4				
OTHERS	MTBF		allcore) 317 7Khremin MIL UDDK 217E (25%)			
JIILKO	DIMENSION	1	4130.5K hrs min. Telcordia SR-332 (Bellcore) 317.7Khrs min. MIL-HDBK-217F (25°C)			
		176*45*32mm, 136*45*32mm (L*W*H)				
	PACKING	0.28Kg; 40pcs/12.1Kg/0.48CUFT(for blank type); 0.31Kg; 40pcs/13.1Kg/0.61CUFT(for S-type)				
NOTE	1 All noromotors NOT and					
	<ol> <li>2. Output hiccups under no</li> <li>3. Please refer to "DRIVER M</li> <li>4. De-rating may be needed</li> </ol>	o-load condition. METHODS OF LED MODULE". ed under low input voltages. Plea	at 230VAC input, rated current and $25^{\circ}$ C of ase refer to "STATIC CHARACTERISTIC" so			
	<ol> <li>Output hiccups under no.</li> <li>Please refer to "DRIVER M</li> <li>De-rating may be needed</li> <li>Current ripple is measured</li> <li>Current ripple is measured at the standby power consum</li> <li>Flicker is measured at full</li> <li>The driver is considerer affected by the comple (as available on https://installations.</li> <li>For XLC-S series: RCM installations.</li> <li>For XLC(except -S) se</li> <li>The ambient temperature than 2000m(6500tt).</li> <li>This series meets the to 75 °C or less.</li> <li>For more information, journal series information and the series information of the series meets the to the series meets the series</li></ol>	o-load condition. METHODS OF LED MODULE". ed under low input voltages. Plea red 50%~100% of maximum volt measured at first cold start. Turr at 1050mA/54V output set by ET ption is measured at 230VAC. ull load with the light source prov ed as a component that will be op ete installation, the final equipme //www.meanwell.com//Upload/PI M is on a voluntary basis. Non IC ries: RCM is on a voluntary basis ure derating of 3.5°C/1000m with typical life expectancy of 50000 I please contact with MEAN WELI	ase refer to "STATIC CHARACTERISTIC" so age under rated power delivery. hing ON/OFF the driver may lead to increas S database. rided by MEAN WELL. berated in combination with final equipment. nt manufacturers must re-qualify EMC Direc DF/EML_statement_en.pdf) c classification Independent LED control gea s and meets relevant IEC or AS/NZS standa fanless models and of 5°C/1000m with fan hours of operation when Tcase, particularly	ections for details. e of the set up time. . Since EMC performance will be ctive on the complete installation again. ar is not suitable for residential ards complying with AS/NZS 4417.1. models for operating altitude higher tc point (or TMP, per DLC), is about		







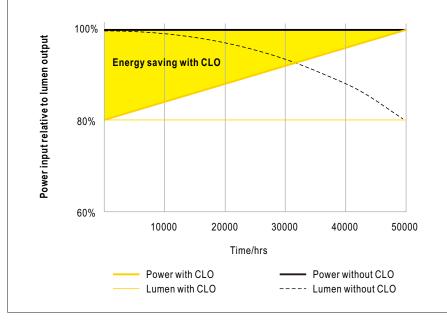
### DIMMING OPERATION

#### ℅ KNX interface

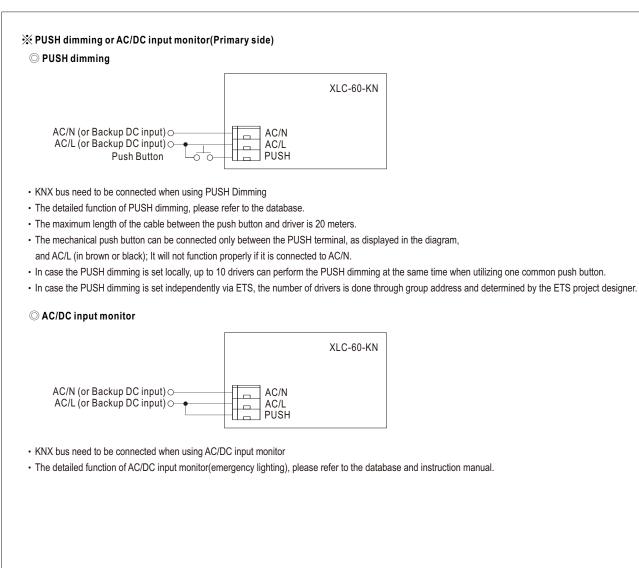
- Apply KNX Bus cable between KNX+ and KNX-
- The application program(database) can be downloaded via Online Catalogs from ETS or via http://www.meanwell.com/productCatalog.aspx

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	

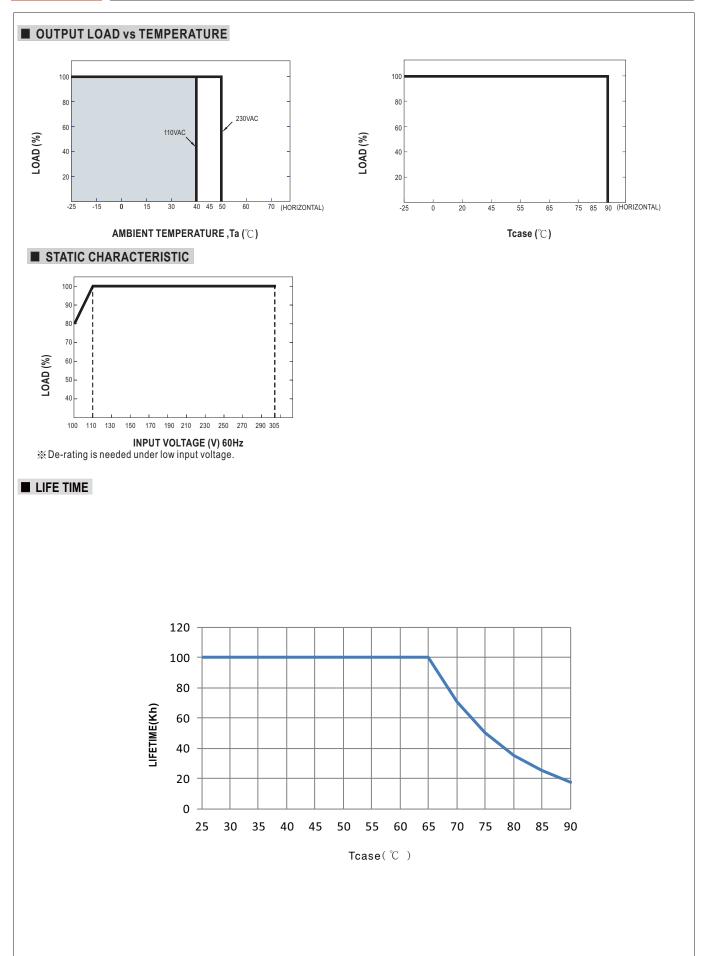
#### **※** CONSTANT LIGHT OUTPUT













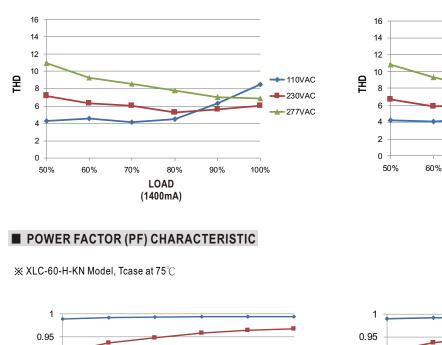
110VAC

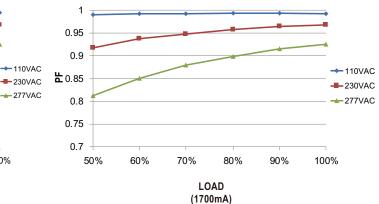
230VAC

277VAC

### TOTAL HARMONIC DISTORTION (THD)

ightarrow XLC-60-H-KN Model, Tcase at 75 $^\circ \! \mathbb{C}$ 





70%

80%

LOAD

(1700mA)

90%

100%

### EFFICIENCY vs LOAD

60%

70%

LOAD

(1400mA)

80%

0.9

0.8

0.75

0.7 50%

**L** 0.85

XLC-60-KN series possess superior working efficiency that up to 90% can be reached in field applications. % XLC-60-H-KN Model, Tcase at 75 $^\circ\!C$ 

90%

100%

