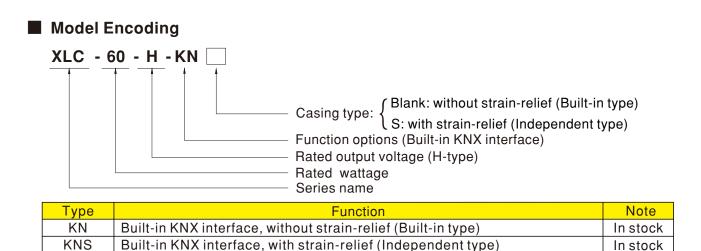


5 years warranty

#### 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.

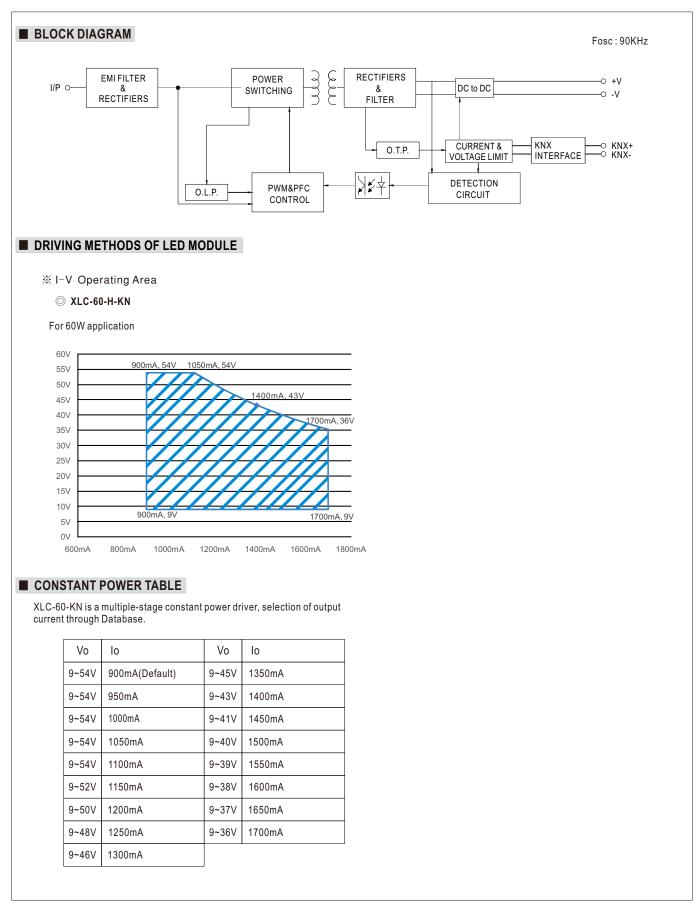




### SPECIFICATION

	XLC-60-H-KN			
OPEN CIRCUIT VOLTAGE Note2	60V			
DEFAULT CURRENT	900mA			
CURRENT ADJ. RANGE	0.9~1.7A			
(BY ETS Database)	0.9~1.7A			
CONSTANT CURRENT	9~541			
	9-34V 60W <4% ±5% 0-100%			
RATED POWER Note.4				
CURRENT RIPPLE Note5				
CURRENT TOLERANCE				
DIMMING RANGE				
SETUP, RISE TIME Note.6	800ms,100ms/230VAC ,1000ms,100ms/115VAC			
VOLTAGE RANGE	100 ~ 305VAC 155 ~ 400VDC			
FREQUENCY RANGE	PE>0 05/115\/dC PE>0 05/230\/dC PE>0 9/277\/dC@full load			
POWER FACTOR				
TOTAL HARMONIC				
DISTORTION				
EFFICIENCY(Typ.) Note7	90%			
AC CURRENT	0.75A/115VAC, 0.35A/230VAC, 0.3A/277VAC			
INRUSH CURRENT	COLD START 15A(twidth=310us measured at 50% locak) at 230VAC: Per NEMA 410			
CIRCUIT BREAKER	25 units (circuit breaker of type B) / 36 units (circuit breaker of type C) at 230VAC			
LEAKAGE CURRENT	<0.75mA/277VAC			
CONSUMPTION	Standby power consumption<0.5W (Dimi	ming off)		
SHORT CIRCUIT	Hiccup mode, recovers automatically after	er fault condition is removed		
			ly after fault condition is removed	
			g and have contained to nonovou.	
	· · · · · · · · · · · · · · · · · · ·	PUT LOAD vs TEMPERATURE" section)		
MAX. CASE TEMP.				
WORKING HUMIDITY	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		
CAFETY STANDADDS	ENEC BS EN/EN61347-1, BS EN/EN61347-2-13(EL) appendix J suitable for emergency installations (DC input 176-280VDC);			
SAFETT STANDARDS	BS EN/EN62384 , GB/T19510.1, GB/T19	9510.213, EAC TP TC 004 approved; Design refer to	o AS/NZS 61347-1, AS/NZS 61347-2-13	
WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC			
ISOLATION RESISTANCE EMC EMISSION SAFETY&EMC	I/P-O/P:>100M Ohms / 500VDC / 25°C/ 7	'0% RH		
	Parameter	Standard	Test Level/Note	
			Class C @load≥60%	
		BO EN/ENOTOGO-0-0		
	Parameter	Standard	Test Level/Note	
	ESD	BS EN/EN61000-4-2	Level 3, 8KV air ; Level 2, 4KV contact	
			Level 2	
EMCIMMUNITY			Level 2 Level 3, 1KV/Line-Line	
			Level 2	
			Level 2	
			70% residual voltage for 10	
	voltage bips and interruptions	BSEN/EN61000-4-11	period, 0% residual voltage for 0.5 periods	
KNX	Certified protocol			
FLICKER Note.9	$PstLM \le 1, SVM \le 0.4$			
MTBF	4130.5K hrs min. Telcordia SR-332 (Bellcore) 317.7Khrs min. MIL-HDBK-217F (25°C)			
DIMENSION	176*45*32mm, 136*45*32mm (L*W*H)			
PACKING	0.28Kg; 40pcs/12.1Kg/0.48CUFT(for blan	nk type); 0.31Kg; 40pcs/13.1Kg/0.61CUFT(f	or S-type)	
<ol> <li>2. Output hiccups under no</li> <li>3. Please refer to "DRIVER M</li> <li>4. De-rating may be needed</li> <li>5. Current ripple is measured</li> </ol>	o-load condition. METHODS OF LED MODULE". ed under low input voltages. Pleaso red 50%~100% of maximum voltag	e refer to "STATIC CHARACTERISTIC" s	ections for details.	
	CONSTANT CURRENT REGION RATED POWER Note.4 CURRENT RIPPLE Note5 CURRENT TOLERANCE DIMMING RANGE SETUP,RISE TIME Note.6 VOLTAGE RANGE FREQUENCY RANGE POWER FACTOR TOTAL HARMONIC DISTORTION EFFICIENCY(Typ.) Note7 AC CURRENT INRUSH CURRENT MAX. NO. of PSUs on 16A CIRCUIT BREAKER LEAKAGE CURRENT STANDBY POWER Note8 CONSUMPTION SHORT CIRCUIT OVER TEMPERATURE DIMMING WORKING TEMP. MAX. CASE TEMP. WORKING TEMP. MITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION PACKING 1. AII parameters NOT spe 2. Output hiccups under n. 3. Please refer to "DRIVER I	(BY E15 Database)         9-54V           CONSTANT CURRENT REGION         9-54V           RATED POWER Note.4         60W           CURRENT TOLERANCE         ±5%           DIMMING RANGE         0-100%           SETUP,RISE TIME Note.5         800ms,100ms/230VAC,1000ms,100ms/           YOLTAGE RANGE         100 ~ 305VAC         155 ~ 400VDC           FREQUENCY RANGE         47 ~ 63Hz           POWER FACTOR         PF ≥0.95/15VAC, PF ≥0.95/230VAC, 0(PF)           TOTAL HARMONIC         THD < 20%(@load ≥60%/230VAC; @loa	(IPY ETS Database)         9-54/V           CONSTANT CURRENT REGION         9-54/V           RATED POWER Nets.4         60W           CURRENT RIPPLE Notes         44%           CURRENT RIPPLE Notes         44%           CURRENT RIPPLE Notes         45%           DIMMING RANCE 0-100%         9-54/V           SETUPRISE TIME Notes         800m;100m;230VAC (100m;100m;115VAC           VOLTAGE RANCE         47 - 63Hz           POWER FACTOR         (PF≥0.93/115VAC, PF≥0.92/27VAC@full load           (PEase refet to "DOTAL HARMONIC DIFORTION(THD)" Section)         (Please refet to "DOTAL HARMONIC DIFORTION(THD)" Section)           EFFICIENCY(Typ.) Note7         90%         42         55%/277VAC           AC CURRENT         0.75A/115VAC, 0.3A/230VAC, 0.3A/277VAC         1200VAC; PE NEMA410           INRUSH CURRENT         0.01D START 15A(Muldh=310)s measured at 50% lopeak) at 230VAC; PE NEMA410           MAX. No. of PSUs on 16A         25 units (circuit breaker of type B) / 36 units (circuit breaker of type C) at 230VAC           CIRCUIT RERARER         25 units (circuit breaker of type B) / 36 units (circuit breaker of type C) at 230VAC           CIRCUIT HICKNER         10-500 HZ         1300 MDI (S0 PERATION)           CIRCUIT RERARTURE         Standby power consumption:0.5W (Dimming off)         000KNR tore 1000 HZ         1000MING OPERATION Section	







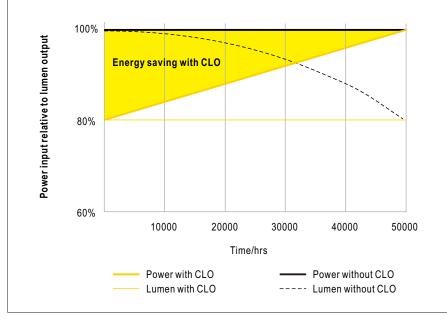
### DIMMING OPERATION

#### ℅ KNX interface

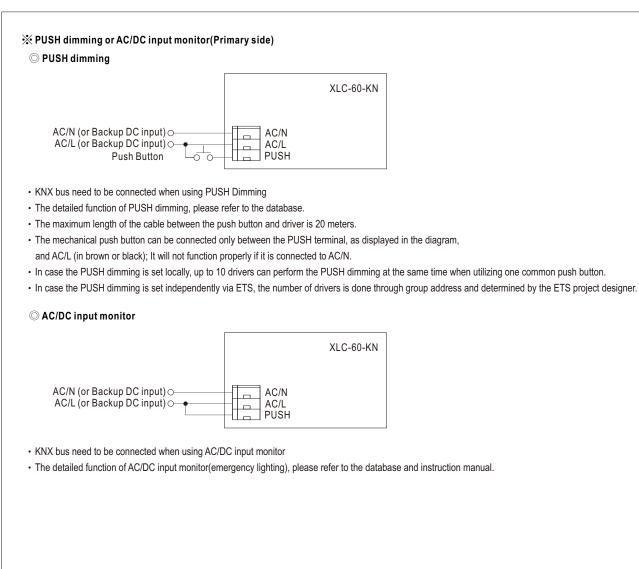
- Apply KNX Bus cable between KNX+ and KNX-
- The application program(database) can be downloaded via Online Catalogs from ETS or via http://www.meanwell.com/productCatalog.aspx

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

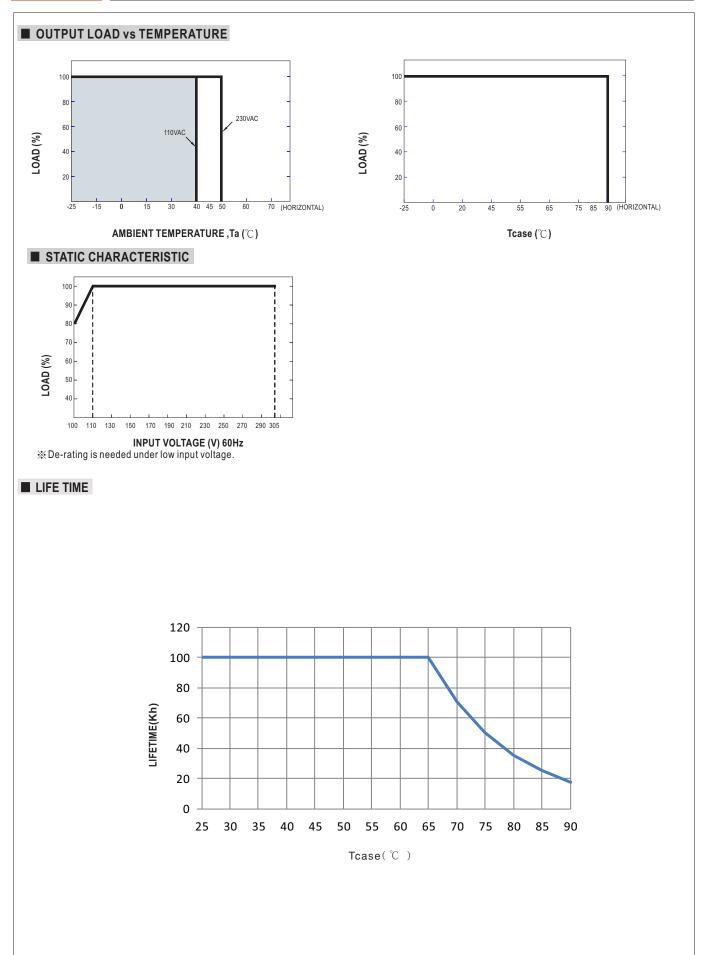
#### **※** CONSTANT LIGHT OUTPUT













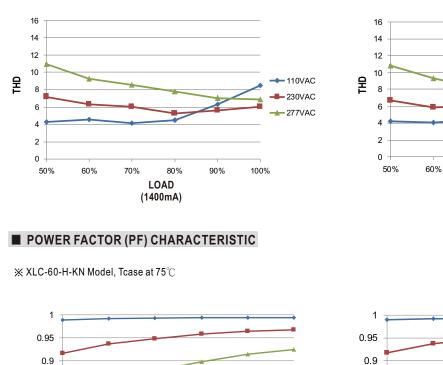
110VAC

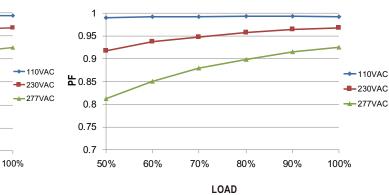
230VAC

277VAC

### TOTAL HARMONIC DISTORTION (THD)

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





(1700mA)

70%

80%

LOAD

(1700mA)

90%

100%

### EFFICIENCY vs LOAD

60%

70%

LOAD

(1400mA)

80%

**L** 0.85

0.8

0.75

0.7 50%

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%

