

Наличие и актуальные цены на

LCM-25KN

https://www.mean-well.ru/store/LCM-25KN/











■ Features

- Constant Current mode output with multiple levels selectable by dip switch
- KNX/EIB protocol
- · Flicker free design
- Support emergency lighting(EL)
- · Integrated constant light output
- Integrated KNX push button interface
- Synchronization up to 10units
- Functions: Manual dim, operation hours, power consumption feedback, log/linear curve selection...etc
- · 3 years warranty

■ Applications

- · LED indoor lighting
- · LED office lighting
- · LED architectural lighting
- · LED panel lighting
- · Industrial lighting

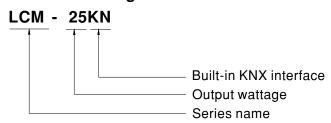
■ GTIN CODE

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

■ Description

LCM-25KN series is a 25W AC/DC constant current mode output LED driver featuring the multiple levels selectable by dip switch and the KNX interface to avoid using the complicated KNX-DALI gateway. LCM-25KN operates from $180\sim277$ VAC and offers different current levels ranging between 350mA and 1050mA. Thanks to the efficiency up to 85%, with the fanless design, the entire series is able to operate for $-30^{\circ}\text{C} \sim +85^{\circ}\text{C}$ case temperature under free air convection. In addition, LCM-25KN is equipped with push dimming and synchronization so as to provide the optimal design flexibility for LED lighting system.

■ Model Encoding



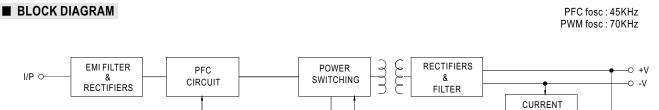


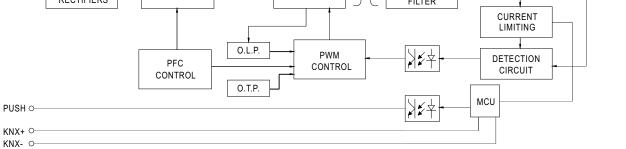
25W Multiple-Stage Constant Current Mode LED Driver

LCM-25KN series

SPECIFICATION

MODEL		LCM-25KN						
	AUDDENT LEVEL	Current level selectable via DIP switch, please refer to "DIP SWITCH TABLE" section						
OUTPUT	CURRENT LEVEL	350mA	500mA	600mA	700mA(default)	900mA	1050mA	
	RATED POWER	18.9W	25.2W			•		
	DC VOLTAGE RANGE	6 ~ 54V	6 ~ 50V	6 ~ 42V	6 ~ 36V	6 ~ 28V	6 ~ 24V	
0011 01	OPEN CIRCUIT VOLTAGE (max.)	59V			41V	'		
	CURRENT RIPPLE	5.0% max. @rated current						
	CURRENT TOLERANCE	±5%						
	SETUP TIME Note.3	500ms / 230VAC						
	VOLTAGE RANGE Note.2		220 ~ 380VDC TIC CHARACTERIST	IC" section)				
	FREQUENCY RANGE	47 ~ 63Hz						
	POWER FACTOR (Typ.)	PF≥0.94/230VAC, PF≥0.91/277VAC@full load Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)						
	TOTAL HARMONIC DISTORTION	THD< 20%(@load≧50%/230VAC; @load≧75%/277VAC) (Please refer to "TOTAL HARMONIC DISTORTION(THD)" section)						
INPUT	EFFICIENCY (Typ.) Note.4	85%						
	AC CURRENT (Typ.)	0.17A/230VAC 0.15A/277VAC						
	INRUSH CURRENT (Typ.)	COLD START 20A(twidth=260µs measured at 50% lpeak) at 230VAC; Per NEMA 410						
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	26 units (circuit breaker of type B) / 44 units (circuit breaker of type C) at 230VAC						
	LEAKAGE CURRENT	<0.5mA/240VAC						
	STANDBY POWER CONSUMPTION Note.5	<0.5W						
	SHORT CIRCUIT	Constant current limiting, recovers automatically after fault condition is removed						
PROTECTION	OVER TEMPERATURE	Shut down o/p voltag	e, recovers automatic	ally after temperature	goes down			
	DIMMING	Please refer to "DIMMING OPERATION" section						
FUNCTION	SYNCHRONIZATION	Please refer to "SYNCHRONIZATION OPERATION" section						
WORKING TEMP. Tcase=-30 ~ +85°€ (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)				RATURE" section)				
	MAX. CASE TEMP.	Tcase=+85°C						
	WORKING HUMIDITY	20 ~ 90% RH non-condensing						
ENVIRONMENT	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	CSA C22.2 No.250.13-12, ENEC BS EN/EN61347-1, BS EN/EN61347-2-13, BS EN/EN62384 independent, GB195 GB19510.1, BIS IS15885(Part2/Sec13), EAC TP TC 004 approved				t, GB19510.14,		
045557	KNX STANDARDS	certification						
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC; O/P-KN±:500VDC						
EMC	ISOLATION RESISTANCE	I/P-O/P:>100M Ohms / 500VDC / 25°C / 70% RH						
	EMC EMISSION Note.6	Compliance to BS EN/EN55015, BS EN/EN61000-3-2 Class C(@load ≥ 50%) ; BS EN/EN61000-3-3; GB/T 17743, GB17625.1, EAC TP TC 020						
	EMC IMMUNITY	Compliance to BS EN EAC TP TC 020	/EN61000-4-2,3,4,5,6	,8,11, BS EN/EN6154	7, light industry level(surge immunity Line-L	ine 2KV),	
	MTBF	1994.5K hrs min.	Telcordia SR-332	(Bellcore); 201.1K	hrs min. MIL-HE	DBK-217F (25°C)		
OTHERS	DIMENSION	105*68*23mm (L*W*	H)					
	PACKING	0.173Kg; 72pcs/13.5	Kg/1.04CUFT					
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. 2. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. 3. Length of set up time is measured at first cold start. Turning ON/OFF the driver may lead to increase of the set up time. 4. Efficiency is measured at 500mA/50V output set by DIP switch. 5. Standby power consumption is measured at 230VAC. 6. The driver is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. (as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf) 7. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500f 8. To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permanently connected to the mains. ※ Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx							





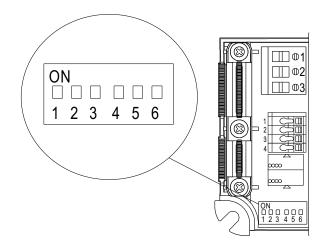
■ DIP SWITCH TABLE

LCM-25KN is a multiple-stage constant current driver, selection of output current through DIP switch is exhibited below.

lo DIP S.W.	1	2	3	4	5	6	Max.LED voltage
350mA							54V
500mA	ON						50V
600mA	ON	ON					42V
700mA(factory default)	ON	ON	ON			ON	36V
900mA	ON	ON	ON	ON		ON	28V
1050mA	ON	ON	ON	ON	ON	ON	24V

More current options through DIP switch are listed below.

lo DIP S.W.	1	2	3	4	5	6	Max.LED voltage
450mA		ON					54V
550mA				ON			46V
800mA	ON	ON		ON			31V



Note: The Max. LED voltage connected at the output should be always less than the table above.



■ DIMMING OPERATION

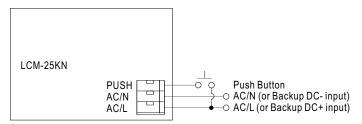
★ KNX interface

- · 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
Switch functions	Turn on brightness Dimming speed for turn on/off Switch telegram and status Switch on/off delay
Dimming	Dimming speed for 0~100% Allow switch on via relative dimming Push dimming with AC inut port Block object for push dimming
Brightness value	Dimming speed for transition brightness values Permit set switch on and off brightness via value Brightness value and status
Fault message	Lamp fault AC/DC input monitor fault messages
Other functions	Reaction on KNX voltage failure/recovery Power-On level Dimming curve select(linear/log) Synchronous dimming output Block function(Block1&Block2) Staircase lighting function(multi-stage switch-off)
General function	Cyclic monitoring telegram(In operation)
8 Scenes	Recall and save via KNX with 8-bit telegram
Operating hours & CLO	Operating hours counter Constant light out(5 scheduled divisions)
Power consumption feedback	Power consumption report

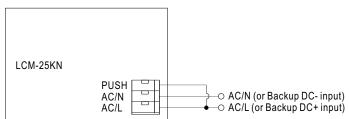
※ PUSH dimming or AC/DC input monitor(Primary side)

O PUSH dimming



- \bullet The detail function of PUSH dimming, please refer to the database.
- Up to 10 drivers can perform the PUSH dimming at the same time when utilizing one common push button.
- The maximum length of the cable from the push button to the last driver is 20 meters.
- The additive push button can be connected only between the PUSH terminal, as displayed in the diagram, and AC/L (in brown or black); it will lead to short circuit 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.

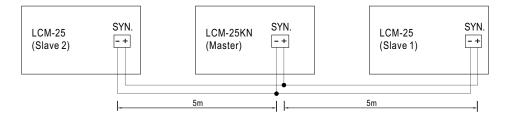
O AC/DC input monitor



- KNX Bus need to connected when using AC/DC input monitor
- The detail function of AC/DC input monitor, please refer to the database.

■ SYNCHRONIZATION OPERATION

- Synchronization up to 10 drivers (1 master + 9 slaves)
- Dimming operating range: 10%~100%
- Sync cable length : < 5m
- Sync cable type : Flat cable
- Sync cable cross section area : 22 24 AWG (0.2~0.3mm²)

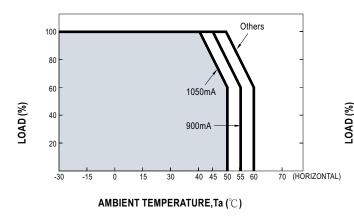


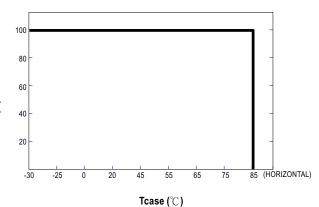
NOTE: 1. Please make sure all units are set to 100% dimming setting (factory default) before synchronizing.

2. Min. Dimming operating range depends on database setting.

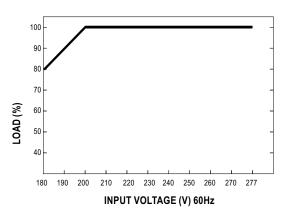


■ OUTPUT LOAD vs TEMPERATURE



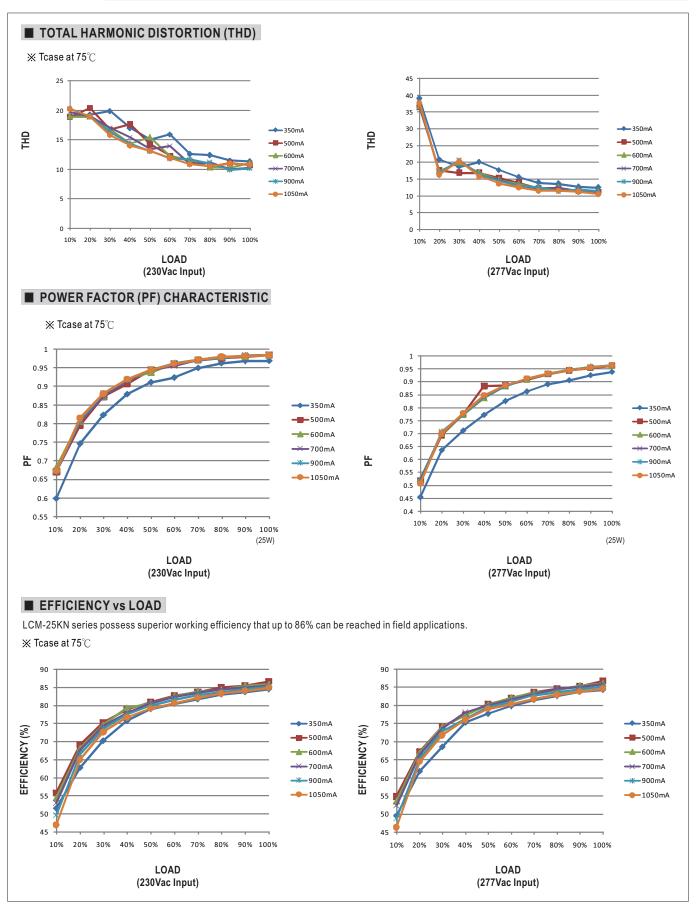


■ STATIC CHARACTERISTIC



 $\frak{\%}$ De-rating is needed under low input voltage.

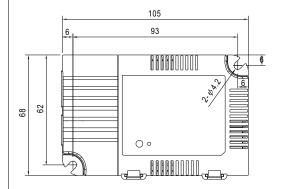


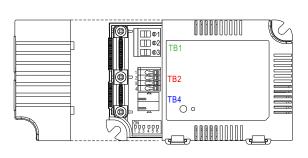


Tolerance:±1

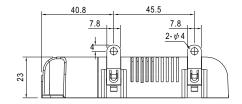
Unit:mm

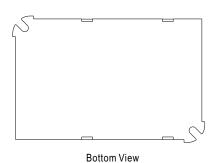
■ MECHANICAL SPECIFICATION





Case No.LCM-25





\times Terminal Pin No. Assignment(TB1)

Pin No.	Assignment			
1	AC/L			
2	AC/N			
3	PUSH			

X Terminal Pin No. Assignment(TB2)

	U	`	,
Pin No.	Assignment	Pin No.	Assignment
1	+Vo	3	-SYN.
2	-Vo	4	+SYN.

X Terminal Pin No. Assignment(TB4)

Pin No.	Assignment
1	KNX-
2	KNX+

 $Note: Please \ use \ wires \ with a \ cross \ section \ of \ 0.5 \sim 2.5 mm^2 (14 \sim 20 AWG) \ for \ TB1 \ and \ wires \ with a \ cross \ section \ of \ 0.5 \sim 1.5 \ mm^2 (16 \sim 20 AWG) \ for \ TB2.$

■ INSTALLATION MANUAL

Please refer to: http://www.meanwell.com/manual.html