

Наличие и актуальные цены на

LCM-25

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



























■ Features

- · Constant Current mode output with multiple levels selectable by dip switch
- · Plastic housing with class II design
- Built-in active PFC function
- Standby power consumption < 0.5W
- Functions: 3 in 1 dimming (dim-to-off); synchronization up to 10 units
- 3 years warranty

Applications

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

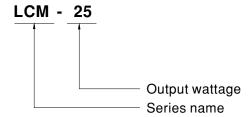
■ GTIN CODE

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

Description

LCM-25 series is a 25W AC/DC constant current mode output LED driver featuring the multiple levels selectable by dip switch. LCM-25 operates from 180~277VAC and offers different current levels ranging between 350mA and 1050mA. Thanks to the efficiency up to 86%, with the fanless design, the entire series is able to operate for -30 $^{\circ}$ C ~+85 $^{\circ}$ C case temperature under free air convection. LCM-25 is equipped with various functions, such as the dimming function 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-25 series

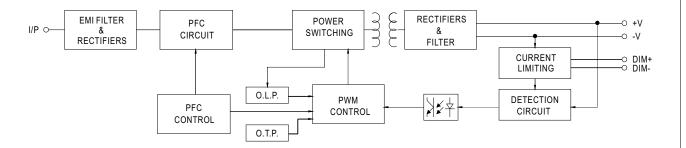
SPECIFICATION

MODEL		LCM-25						
		Current level selectable via DIP switch, please refer to "DIP SWITCH TABLE" section						
	CURRENT LEVEL	350mA	500mA	600mA	700mA(default)	900mA	1050mA	
	RATED POWER	18.9W	25.2W					
OUTPUT	DC VOLTAGE RANGE	6 ~ 54V	6 ~ 50V	6 ~ 42V	6 ~ 36V	6 ~ 28V	6 ~ 24V	
	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	180 ~ 277VAC 254 ~ 392VDC (Please refer to "STATIC CHARACTERISTIC" 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)						
INPUT	TOTAL HARMONIC DISTORTION	THD< 20%(@load≥50%/230VAC; @load≥75%/277VAC) (Please refer to "TOTAL HARMONIC DISTORTION(THD)" section)						
	EFFICIENCY (Typ.) Note.4	86%						
	AC CURRENT (Typ.)	0.17A/230VAC 0.15A/277VAC						
	INRUSH CURRENT (Typ.)	COLD START 20A(tw	vidth=260µs measured	l at 50% lpeak) at 23	30VAC; 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						
PROTECTION	SHORT CIRCUIT	Constant current lim	iting, recovers automa	atically after fault co	ondition is removed			
PROTECTION	OVER TEMPERATURE	Shut down o/p voltag	ge, recovers automati	cally after temperat	ure goes down			
FUNCTION	DIMMING	Please refer to "DIMMING OPERATION" section						
FUNCTION	SYNCHRONIZATION	Please refer to "SYNCHRONIZATION OPERATION" section						
	WORKING TEMP.	Tcase=-30 ~ +85°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)						
	MAX. CASE TEMP.	Tcase=+85°C						
ENVIDONMENT	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	UL8750, CSA C22.2 No.250.13-12, ENEC BS EN/EN61347-1, BS EN/EN61347-2-13, BS EN/EN62384 independent, GB19510.14, GB19510.1, BIS IS15885, EAC TP TC 004 approved						
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC						
EMC	ISOLATION RESISTANCE	I/P-O/P:>100M Ohms / 500VDC / 25°C / 70% RH						
	EMC EMISSION	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/EN61000-4-2,3,4,5,6,8,11, BS EN/EN61547, light industry level(surge immunity Line-Line 2KV), EAC TP TC 020					Line 2KV),	
	MTBF	3298.3K hrs min.	Telcordia SR-332	(Bellcore); 298.	7K hrs min. MIL-H	DBK-217F (25°C)		
OTHERS	DIMENSION	105*68*23mm (L*W*H)						
	PACKING	0.16Kg; 72pcs/12.5Kg/1.04CUFT						
NOTE	 All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. 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. Efficiency is measured at 500mA/50V output set by DIP switch. Standby power consumption is measured at 230VAC. 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) 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(6500ft). 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 							



■ BLOCK DIAGRAM

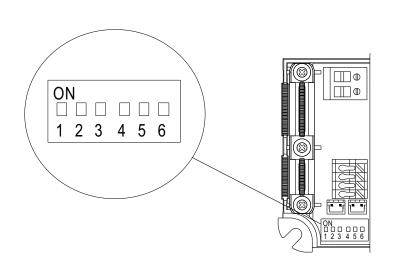
PFC fosc : 45KHz PWM fosc : 70KHz



■ DIP SWITCH TABLE

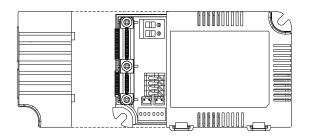
LCM-25 is a multiple-stage constant current driver, selection of output current through DIP switch is exhibited below.

lo DIP S.W.	1	2	3	4	5	6
350mA						
500mA	ON					
600mA	ON	ON				
700mA(factory default)	ON	ON	ON			ON
900mA	ON	ON	ON	ON		ON
1050mA	ON	ON	ON	ON	ON	ON



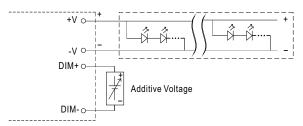


■ DIMMING OPERATION



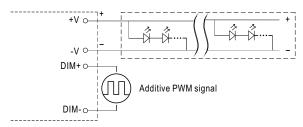
imes 3 in 1 dimming function

- · Output constant current level can be adjusted by applying one of the three methodologies between DIM+ and DIM-: 0 ~ 10VDC, or 10V PWM signal or resistance.
- · Direct connecting to LEDs is suggested. It is not suitable to be used with additional drivers.
- Dimming source current from power supply: $100\mu A$ (typ.)
- O Applying additive 0 ~ 10VDC



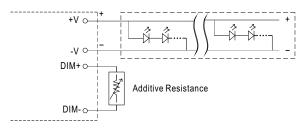
"DO NOT connect "DIM- to -V"

O Applying additive 10V PWM signal (frequency range 100Hz ~ 3KHz):

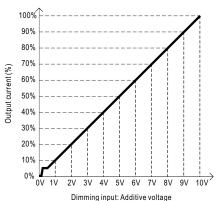


"DO NOT connect "DIM- to -V"

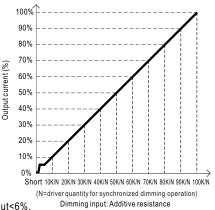
O Applying additive resistance:



"DO NOT connect "DIM- to -V"



100% 90% 70% Output current (%) 60% 40% 30% 20% 0% 0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100% Duty cycle of additive 10V PWM signal dimming input



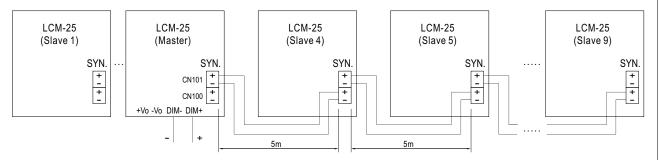
Note: 1. Min. dimming level is about 6% and the output current is not defined when 0% < Iout < 6%.

- The output current could drop down to 0% when dimming input is about 0kΩ or 0Vdc, or 10V PWM signal with 0% duty cycle.
 Please do not activate "temperature compensation" when performing dimming operation.



■ 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)



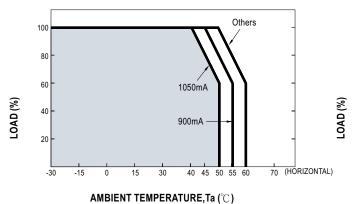
· CN100, CN101: used to synchronously control the LCM units in parallel.

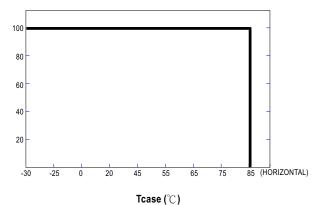
NOTE: 1. Please make sure all units are set to 100% dimming setting (factory default) before synchronizing.

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

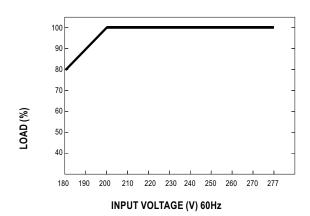


■ OUTPUT LOAD vs TEMPERATURE



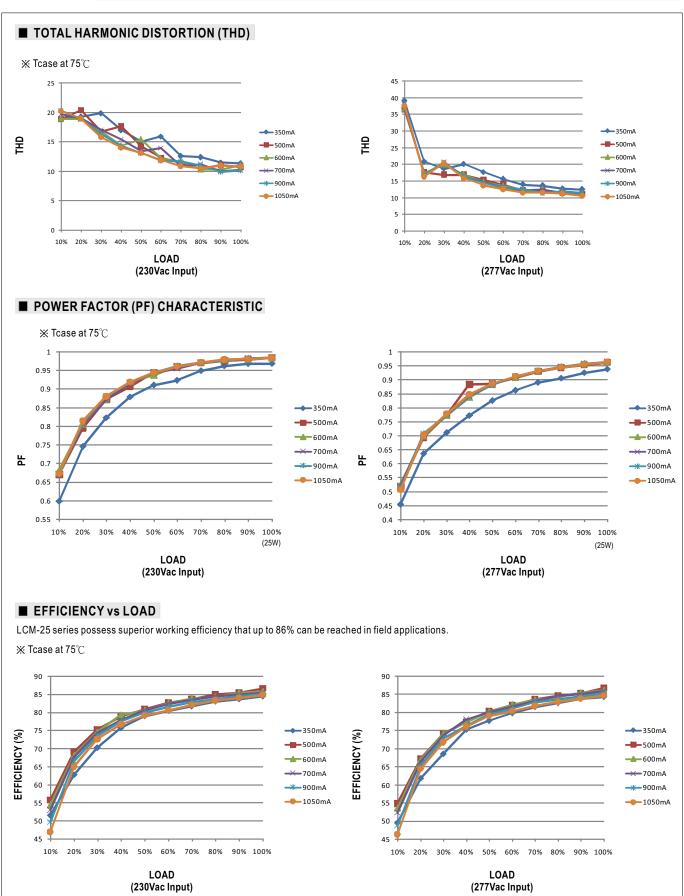


■ STATIC CHARACTERISTIC



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



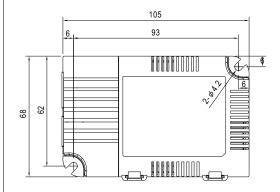


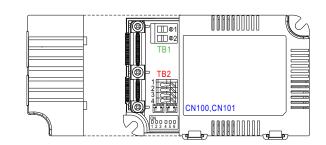
25W Multiple-Stage Constant Current Mode LED Driver

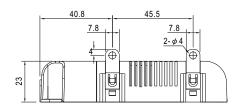
■ MECHANICAL SPECIFICATION

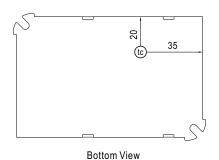
Case No.LCM-25 Unit:mm

Tolerance:±1









• (tc): Max. Case Temperature

※ Terminal Pin No. Assignment(TB1)

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

Terminal Pin No. Assignment(TB2)

7. Terminari iii 140.7651giiii ent(182)							
	Pin No.	Pin No. Assignment		Assignment			
	1	1 +V		DIM-			
	2 -V		4	DIM+			

X SYN. Connector(CN100/CN101):JST B2B-PH-KL or equivalent

	`	,	<u> </u>
Pin No.	Assignment	Mating Housing	Terminal
1	_	JST PHR-2	JST SPH-002T-P0.5S
2	+	or equivalent	or equivalent

Note:Please use wires with a cross section of $0.5\sim2.5$ mm²(14 ~20 AWG) for TB1 and wires with a cross section of $0.5\sim1.5$ mm²(16 ~20 AWG) for TB2. Please use wires with a cross section of $0.126\sim0.205$ mm²(24 ~26 AWG) for CN100/CN101

■ INSTALLATION MANUAL

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