





(for DA2-Type only) (for DA-Type only)



Features

- Constant Current mode output with multiple levels selectable by dip switch
- Emergency lighting application is available according to IEC61347-2-13
- Built-in active PFC function and class II design
- Standby power consumption <0.5W
- Functions: DALI interface(logarithm or linear dimming curve selectable), push dimming synchronization up to 10units

- Applications
 - LED indoor lighting
 - LED office lighting
 - LED commercial lighting
 - LED panel lighting
 - Industrial lighting

GTIN CODE

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

• 3 years warranty

Description

LCM-25DA series is a 25W AC/DC constant current mode output LED driver featuring the multiple levels selectable by dip switch and the DALI interface with the compliance to IEC62386. LCM-25DA 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. In addition, LCM-25DA is equipped with push dimming and synchronization functions, so as to provide the optimal design flexibility for LED lighting system.





SPECIFICATION

	ATION									
MODEL		LCM-25								
		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			
	OPEN CIRCUIT VOLTAGE (max.)	59V			41V					
	CURRENT RIPPLE	5.0% max. @rated current								
	CURRENT TOLERANCE	±5%								
	SETUP TIME Note.3 Note.8	500ms / 230VAC								
INPUT	VOLTAGE RANGE Note.2	180 ~ 277VAC254 ~ 380VDC(254~375VDC for DA2-Type)(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)								
	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(twidth=260µs measured at 50% Ipeak) 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 voltage, recovers automatically after temperature goes down								
	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								
		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(except for DA2-Type), CSA C22.2 NO.250.0-08, ENEC BS EN/EN61347-1, BS EN/EN61347-2-13, BS EN/EN62384 independent,GB19510.14,GB19510.1,BIS IS15885(except for DA2-Type), EAC TP TC 004 approved; According to BS EN/EN61347-2-13 appendix J suitable for emergency installations(EL)(AC Input: 200-240Vac)(for DA2-Type only)								
SAFETY &	DALI STANDARDS	IEC62386-101, 102, 207,251								
EMC	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC ; I/P-DA:1.5KVAC ; O/P-DA:1.5KVAC								
	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; GB17625.1,GB17743, 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								
OTHERS	MTBF	2661.8K hrs min. Telcordia SR-332 (Bellcore) ; 213.3K hrs min. MIL-HDBK-217F (25° C)								
	DIMENSION	105*68*23mm (L*W*H)								
	PACKING	0.17Kg;72pcs/13.2Kg/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. 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 8. Based on IEC 62386-101/102 DALI power on timing and interruption regulations, the set up time needs to test with a DALI controller which can support for DALI power on function, otherwise the set up time will be higher than 0.5 second for DA2-type. 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 									



25W Multiple-Stage Constant Current Mode LED Driver

LCM-25DA series



DIP SWITCH TABLE

LCM-25DA/DA2 is a multiple-stage constant current driver, selection of output current through DIP switch is exhibited below.

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

Note: For more current setting, please contact MW's sales.







LCM-25DA series

DIMMING OPERATION



*PUSH dimming(primary side)

Action	Action duration	Function
Short push	0.1~1 sec.	Turn ON-OFF the driver
Long push	1.5~10 sec.	Every Long Push changes the dimming direction, dimming up or down
Reset	>11 sec.	Set up the dimming level to 100%

• The factory default dimming level is at 100%.

- If the push action lasts less than 0.05 sec., it will not lead to a change for the status of the driver.
- 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.

XDALI interface(primary side; for DA/DA2-Type)

- Apply DALI signal between DA+ and DA-
- DALI protocol comprises 16 groups and 64 addresses.
- First step is fixed at 6% of output.



LCM-25DA series

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.



25W Multiple-Stage Constant Current Mode LED Driver

LCM-25DA series





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■ INSTALLATION MANUAL

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