

























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 10 units
- 3 years warranty

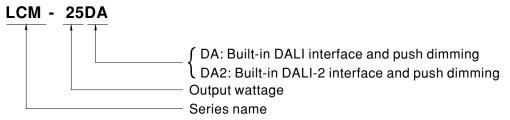
Applications

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

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°C ~+85°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.

Model Encoding





25W Multiple-Stage Constant Current Mode LED Driver

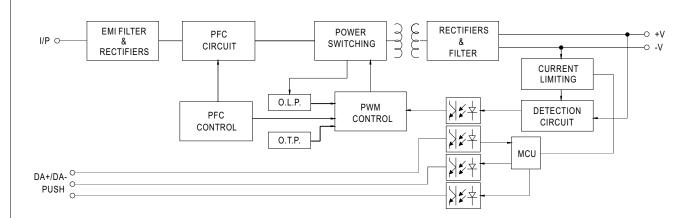
LCM-25DA series

MODEL		LCM-25						
	CURRENT LEVEL	Current level selectable via DIP switch, please refer to "DIP SWITCH TABLE" section 350mA 500mA 600mA 700mA(default) 900mA 1050mA						
	RATED POWER	18.9W	25.2W	ooonii/t	7 oom (deldall)	00011111	100011171	
	DC VOLTAGE RANGE	6 ~ 54V	6 ~ 50V	6 ~ 42V	6 ~ 36V	6 ~ 28V	6 ~ 24V	
UTPUT	OPEN CIRCUIT VOLTAGE (max.)	59V	10 001	0 .21	41V	0 201	0 2	
	CURRENT RIPPLE		5.0% max. @rated current					
	CURRENT TOLERANCE	±5%						
	SETUD TIME Note.3	500ms / 230VAC						
	VOLTAGE RANGE Note.2	180 ~ 277VAC 254 ~ 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)						
NPUT	EFFICIENCY (Typ.) Note.4	86%						
	AC CURRENT (Typ.)	0.17A/230VAC 0.15A/277VAC						
	INRUSH CURRENT (Typ.)	COLD START 20A(tw	vidth=260µs measure	ed at 50% Ipeak) 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						
	SHORT CIRCUIT	Constant current limiting, recovers automatically after fault condition is removed						
ROTECTION	OVER TEMPERATURE	Shut down o/p voltage, recovers automatically after temperature goes down						
	DIMMING	Please refer to "DIMMING OPERATION" section						
UNCTION	SYNCHRONIZATION	Please refer to "SY	NCHRONIZATION	OPERATION" sec	tion			
	WORKING TEMP.	Tcase=-30 ~ +85°C ((Please refer to " Ol	JTPUT LOAD vs TE	EMPERATURE" section)			
	MAX. CASE TEMP.	Tcase=+85°C						
	WORKING HUMIDITY	20 ~ 90% RH non-condensing						
NVIRONMENT	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						
SAFETY &	DALI STANDARDS	IEC62386-101, 102, 207,251						
MC	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 Ohm	ns / 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						
	MTBF	213.3K hrs min. MIL-HDBK-217F (25℃)						
THERS	DIMENSION	105*68*23mm (L*W*H)						
	PACKING	0.17Kg; 72pcs/13.2Kg/1.04CUFT						
NOTE	De-rating may be needed up 3. Length of set up time is med 4. Efficiency is measured at 50. Standby power consumption.	parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. gth of set up time is measured at first cold start. Turning ON/OFF the driver may lead to increase of the set up time. ciency is measured at 500mA/50V output set by DIP switch. ndby power consumption is measured at 230VAC. driver is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the						

- 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).
 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.
- 9. To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permanently
- X Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx

■ BLOCK DIAGRAM

PFC fosc : 45KHz PWM fosc : 70KHz

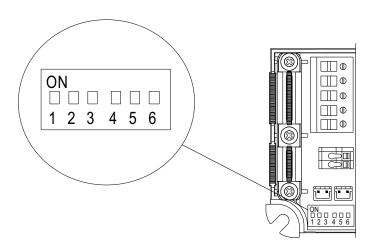


■ DIP SWITCH TABLE

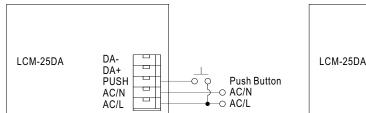
LCM-25DA/DA2 is a multiple-stage constant current driver, selection of output current through DIP switch is exhibited below.

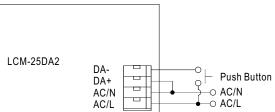
lo DIP S.W.	1	2	3	4	5	6
350mA						
500mA	ON					
600mA	ON	ON				
700mA(factory default)	ON	ON	ON			ON
900mA	ON	ON	ON	ON		ON
1050mA	ON	ON	ON	ON	ON	ON

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



■ 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%

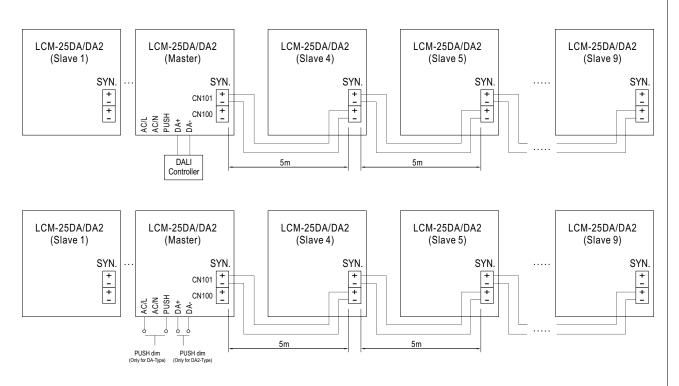
- The factory default dimming level is at 100%.
- If the push action lasts less than 0.05 sec., it will not lead to a change for the status of the driver.
- Up to 10 drivers can perform the PUSH dimming at the same time when utilizing one common push button.
- The maximum length of the cable from the 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.

☆DALI 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.

■ SYNCHRONIZATION OPERATION

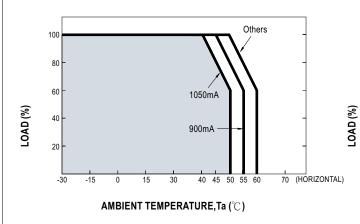
- Synchronization up to 10 drivers (1 master + 9 slaves)
- Dimming operating range: 10%~100%
- Sync cable length : < 5mSync cable type : Flat cable
- Sync cable cross section area: 22 24 AWG (0.2~0.3mm²)

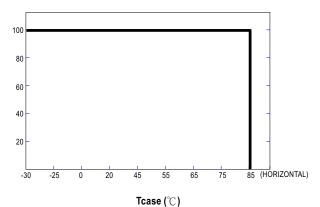


- CN100, CN101: used to synchronously control the LCM units in parallel.
- NOTE: 1. Please make sure all units are set to 100% dimming setting (factory default) before synchronizing.
 - 2. Min. Dimming operating range depends on dimmer setting.

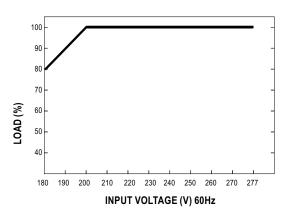


■ OUTPUT LOAD vs TEMPERATURE



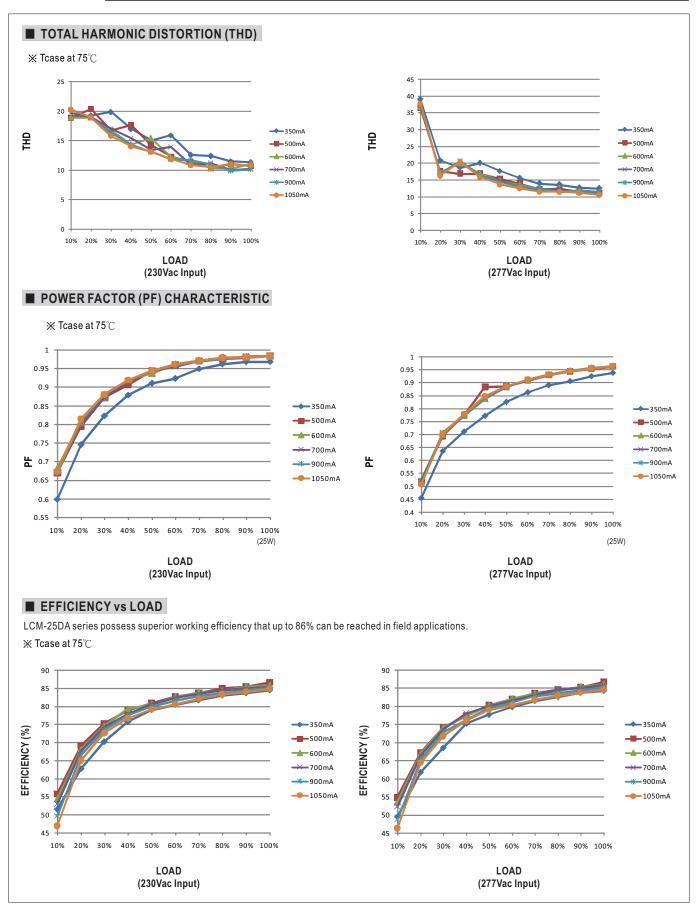


■ STATIC CHARACTERISTIC



xi De-rating is needed under low input voltage.



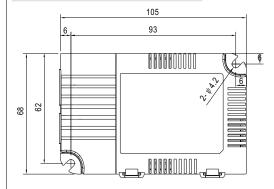


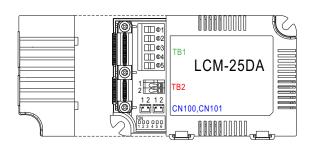
LCM-25DA series

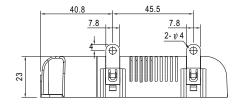
Case No.LCM-25

Unit:mm

■ MECHANICAL SPECIFICATION







Terminal Pin No. Assignment(TB1)(LCM-25DA)

Pin No.	Assignment	Pin No.	Assignment
1	1 AC/L		DA+
2 AC/N		5	DA-
3	3 PUSH		

Terminal Pin No. Assignment(TB1)(LCM-25DA2)

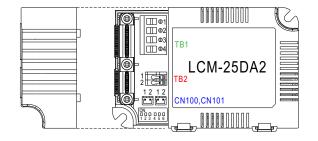
/. reminar in restricting in (12)/(20 in 202) (2)						
Pin No.	Pin No. Assignment		Assignment			
1 AC/L		4	DA+			
2 AC/N						
3 DA-						

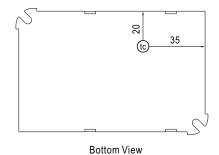
Terminal Pin No. Assignment(TB2)

,	
Pin No.	Assignment
1	+V
2	-V

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

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





• tc : Max. Case Temperature

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 $0.126\sim0.20$ 5mm²(24 ~26 AWG) for CN100/CN101

■ INSTALLATION MANUAL

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

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