









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
- 3 years warranty

Applications

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

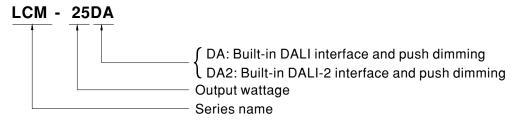
■ GTIN CODE

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

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 $180\sim277$ VAC 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 $-30\%\sim+85\%$ 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

SPECIFICATION

MODEL		LCM-25							
ا	CURRENT LEVEL	Current level selectable via DIP switch, please refer to "DIP SWITCH TABLE" section							
	CORRENT 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 (Please refer to "S	(Please refer to "STATIC CHARACTERISTIC" section)						
	FREQUENCY RANGE	47 ~ 63Hz							
	POWER FACTOR (Typ.)	$ PF \! \ge \! 0.94/230 \text{VAC}, PF \! \ge \! 0.91/277 \text{VAC} @ \text{full load} \\ \text{(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	86%							
	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 voltage, recovers automatically after temperature goes down							
	DIMMING	Please refer to "[DIMMING OPERA	TION" 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	-		·				
	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(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)							
0.4.5.5.7.4.0	DALI STANDARDS	IEC62386-101, 1	02, 207,251						
SAFETY & EMC	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC; I/P-DA:1.5KVAC; O/P-DA:1.5KVAC							
_1410	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/EN61000-4-2,3,4,5,6,8,11, BS EN/EN61547, light industry level(surge immunity Line-Line 2KV), EAC TP TC 020					e-Line 2KV),		
	MTBF	2661.8K hrs min. Telcordia SR-332 (Bellcore) ; 213.3K hrs min. MIL-HDBK-217F (25°C)							
OTHERS	DIMENSION	105*68*23mm (L*W*H)							
	PACKING	0.17Kg; 72pcs/13	3 2Ka/1 04CUFT						

- 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 o. The arriver is considered as a component trial will be operated in combination will final equipment. Since ENIC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.

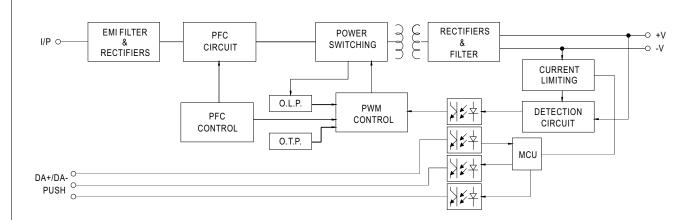
 (as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf)

 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(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. 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
- connected to the mains. X Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx



PFC fosc : 45KHz PWM fosc : 70KHz

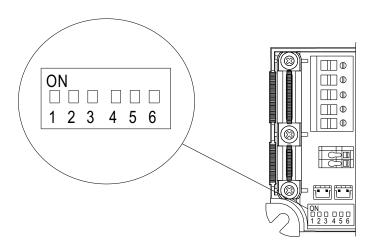


■ DIP SWITCH TABLE

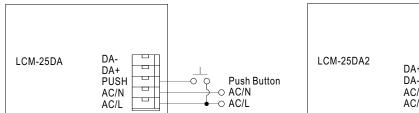
LCM-25DA/DA2 is a multiple-stage constant current driver, selection of output current through DIP switch is exhibited below.

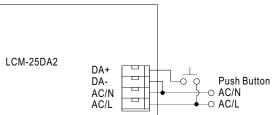
lo DIP S.W.	1	2	3	4	5	6
350mA						
500mA	ON					
600mA	ON	ON				
700mA(factory default)	ON	ON	ON			ON
900mA	ON	ON	ON	ON		ON
1050mA	ON	ON	ON	ON	ON	ON

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%		Set up the dimming level to 100%

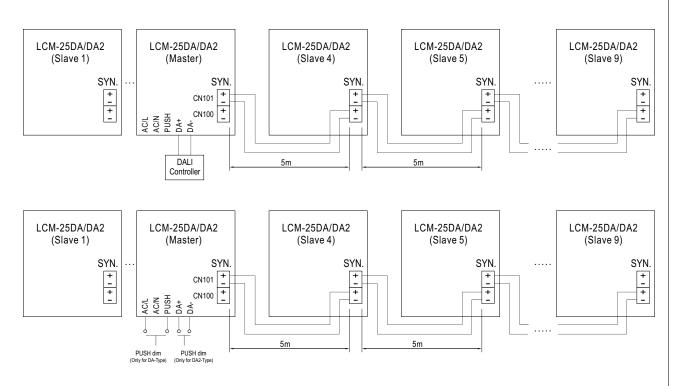
- The factory default dimming level is at 100%.
- If the push action lasts less than 0.05 sec., it will not lead to a change for the status of the driver.
- Up to 10 drivers can perform the PUSH dimming at the same time when utilizing one common push button.
- The maximum length of the cable from the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



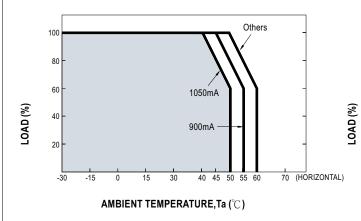
• CN100, CN101: used to synchronously control the LCM units in parallel.

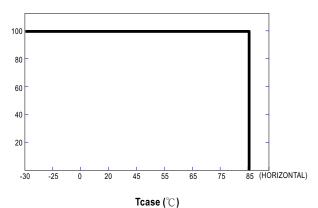
NOTE: 1. Please make sure all units are set to 100% dimming setting (factory default) before synchronizing.

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

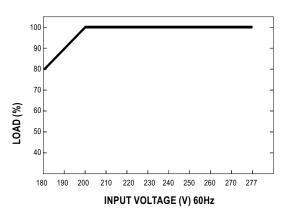


■ OUTPUT LOAD vs TEMPERATURE



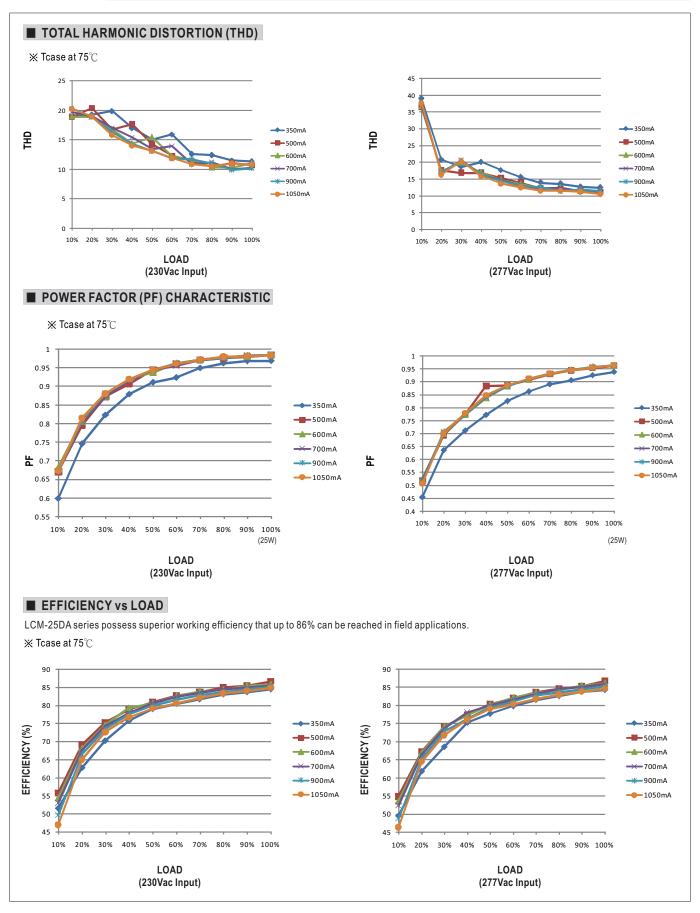


■ STATIC CHARACTERISTIC



xi De-rating is needed under low input voltage.



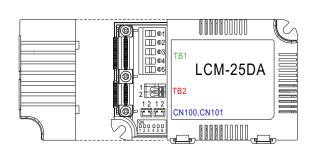


LCM-25DA series

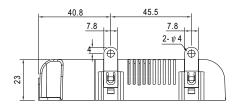
Tolerance:±1

Unit:mm

MECHANICAL SPECIFICATION 105 93 88



Case No.LCM-25



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

Pin No. Assignment		Pin No.	Assignment
1	AC/L	4	DA+
2	AC/N	5	DA-
3	PUSH		

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

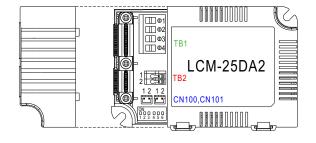
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Pin No.	Assignment	Pin No.	Assignment
1	AC/L	4	DA+
2	AC/N		
3	DA-		

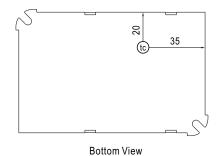
Terminal Pin No. Assignment(TB2)

,	
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 $0.5\sim2.5$ mm $^2(14\sim20$ AWG) for TB1 and wires with a cross section of $0.5\sim1.5$ mm $^2(16\sim20$ AWG) for TB2. Please use wires with a cross section of $0.126\sim0.20$ 5mm $^2(24\sim26$ AWG) for CN100/CN101

■ INSTALLATION MANUAL

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