























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

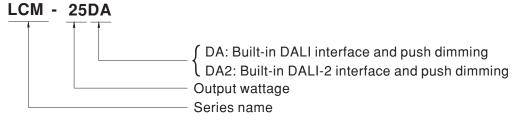
Applications

- 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

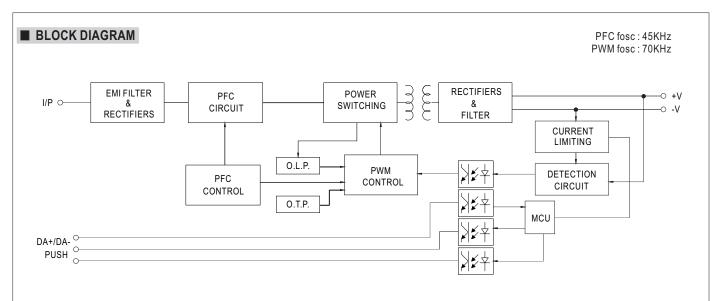










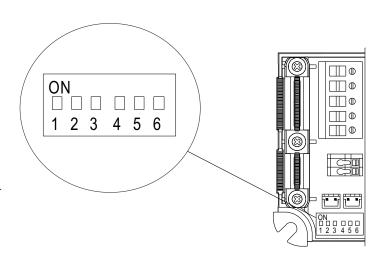


■ DIP SWITCH TABLE

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.











SPECIFICATION

MODEL		LCM-25							
		Current level selectable via DIP switch, please refer to "DIP SWITCH TABLE" section							
OUTDUT	CURRENT LEVEL	350mA	500mA	600mA	700mA(default)	900mA	1050mA		
	RATED POWER	18.9W	25.2W	1000000	1 2 2 1 1 (2 2 1 2 1 4)	1 2 2 2 1 1 1 1	1.000		
	DC VOLTAGE RANGE	6 ~ 54V	6 ~ 50V	6 ~ 42V	6 ~ 36V	6 ~ 28V	6 ~ 24V		
OUTPUT	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	254 ~ 380VDC(2 STATIC CHARACTE	54~375VDC for DA2- RISTIC" section)	Туре)				
	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	86%	86%						
	AC CURRENT (Typ.)	0.17A/230VAC 0.15A/277VAC							
	INRUSH CURRENT (Typ.)	COLD START 20A	A(twidth=260µs measu	ured 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 au	itomatically after fault	condition is removed				
PROTECTION	OVER TEMPERATURE	Shut down o/p vo	Itage, recovers auto	matically after temper	rature goes down				
	DIMMING	Please refer to "I	DIMMING OPERAT	ION" section					
FUNCTION	SYNCHRONIZATION	Please refer to "S	SYNCHRONIZATIO	N OPERATION" sec	tion				
	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 1	0min./1cycle, period	for 60min. each alor	ng X, Y, Z axes				
	UL8750(except for DA2-Type), CSA C22.2 NO.250.0-08, ENEC BS EN/EN61347-1, BS EN/EN61347-2-13, BS EN/E SAFETY STANDARDS 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				ccording to				
SAFETY &	DALI STANDARDS	IEC62386-101, 1	02, 207,251						
EMC	WITHSTAND VOLTAGE	I/P-O/P:3.75KVA	C; I/P-DA:1.5KVAC	; O/P-DA:1.5KVAC					
	ISOLATION RESISTANCE	I/P-O/P:>100M O	hms / 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 L EAC TP TC 020					surge immunity Line	e-Line 2KV),			
	MTBF	2661.8K hrs min.		2 (Bellcore) ; 213.3K I	nrs min. MIL-HDBK-217	'F (25°C)			
OTHERS	DIMENSION	105*68*23mm (L	*W*H)						
	PACKING	0.17Kg; 72pcs/1							
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(6500f 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 								

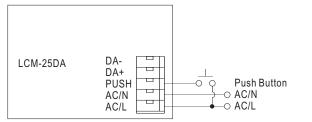


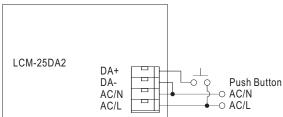






■ DIMMING OPERATION





☆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.



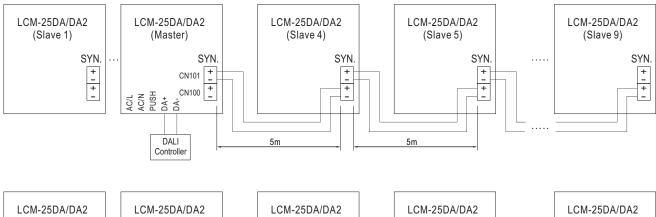


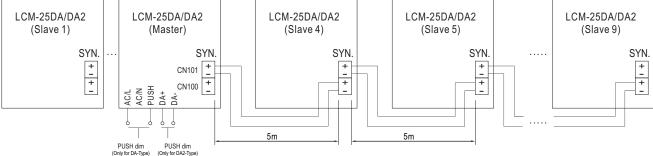




■ SYNCHRONIZATION OPERATION

- Synchronization up to 10 drivers (1 master + 9 slaves)
- Dimming operating range: 10%~100%
- Sync cable length: < 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.

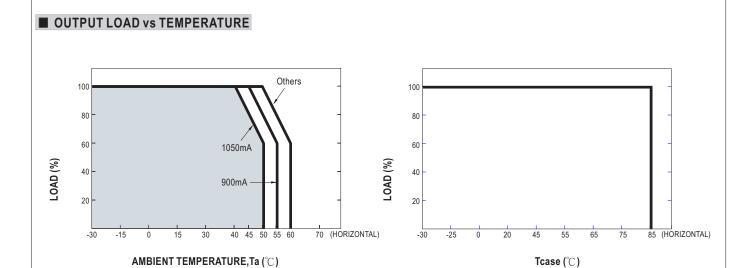
2. Min. Dimming operating range depends on dimmer setting.



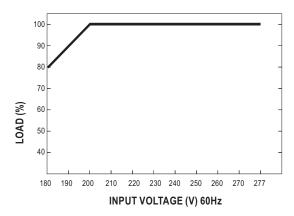








■ STATIC CHARACTERISTIC



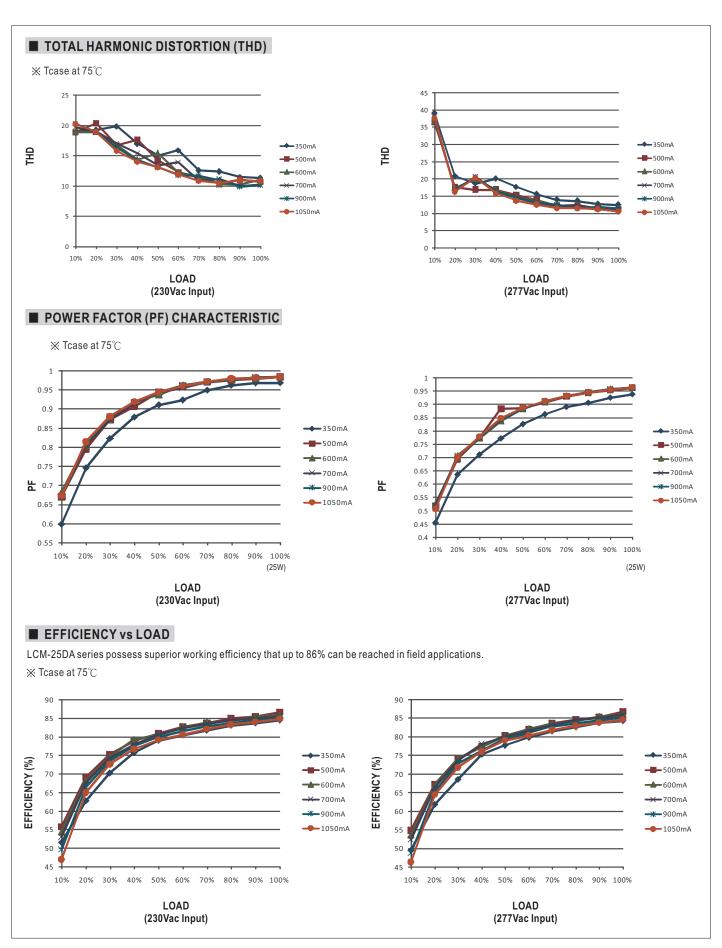
 χ De-rating is needed under low input voltage.







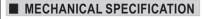


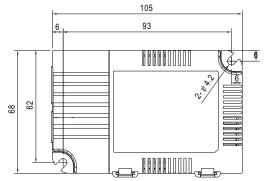


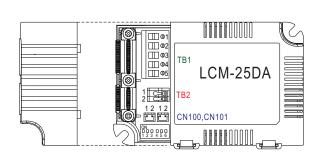
Unit:mm

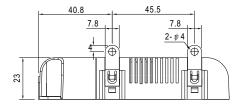
Case No.LCM-25











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)

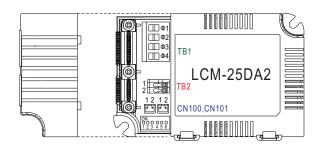
Pin No.	Assignment	Pin No.	Assignment
1	AC/L	4	DA+
2 AC/N			
3 DA-			

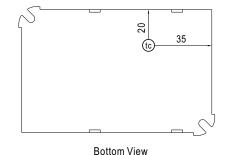
☆ Terminal Pin No. Assignment(TB2)

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 0.5~2.5mm²(14~20AWG) for TB1 and wires with a cross section of 0.5~1.5 mm²(16~20AWG) for TB2. Please use wires with a cross section of 0.126~0.205mm²(24~26AWG) for CN100/CN101





