

Наличие и актуальные цены на

LCM-40DA

https://www.mean-well.ru/store/LCM-40DA/





























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

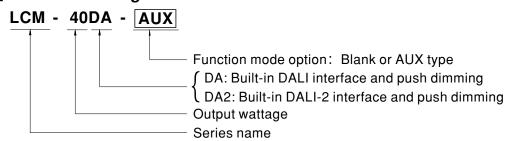
■ GTIN CODE

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

Description

LCM-40DA series is a 40W 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-40DA operates from 180 \sim 295VAC and offers different current levels ranging between 350mA and 1050mA. Thanks to the high efficiency up to 91%, with the fanless design, the entire series is able to operate for -30 $^\circ$ C ~+90 $^\circ$ C case temperature under free air convection. In addition, LCM-40DA is equipped with push dimming and synchronization functions, so as to provide the optimal design flexibility for LED lighting system.

Model Encoding



Type	Function	Note
Blank	standby power consumption <0.5W	In Stock
AUX	standby power consumption <1.2W and Auxiliary DC output(12V/50mA)	By request



40W Multiple-Stage Constant Current Mode LED Driver

LCM-40DA series

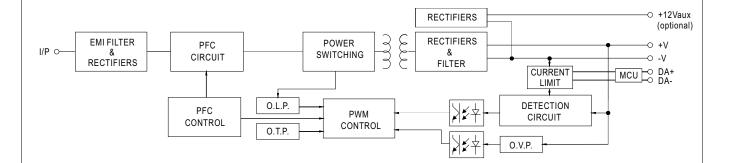
SPECIFICATION

MODEL		LCM-40						
		Current level se	lectable via DIP swit	ch, please refer to"DIP	SWITCH TABLE" section	า		
	CURRENT LEVEL	350mA	500mA	600mA	700mA(default)	900mA	1050mA	
	RATED POWER	42W						
UTPUT	DC VOLTAGE RANGE	2 ~ 100V	2 ~ 80V	2 ~ 67V	2 ~ 57V	2 ~ 45V	2 ~ 40V	
UIFUI	OPEN CIRCUIT VOLTAGE (max.)	110V	<u> </u>	<u> </u>	65V			
	CURRENT RIPPLE Note.5	5.0% max. @ra	ted current		<u> </u>			
	CURRENT TOLERANCE	±5%						
	AUXILIARY DC OUTPUT	Nominal 12V(de	viation 11.4~12.6V)	@50mA for AUX-Type	only			
	SETUP TIME Note.3	500ms / 230VA			· ·			
	VOLTAGE RANGE Note.2	180 ~ 295VAC (Please refer to	254 ~ 392VDC "STATIC CHARACT	ERISTIC" section)				
	FREQUENCY RANGE	47 ~ 63Hz		,				
	POWER FACTOR (Typ.)	PF≥0.975/230VAC, PF≥0.95/277VAC@full load (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)						
	TOTAL HARMONIC DISTORTION		THD< 20%(@load≧75%) (Please refer to "TOTAL HARMONIC DISTORTION(THD)" section)					
NPUT	EFFICIENCY (Typ.) Note.4	91%						
	AC CURRENT (Typ.)	0.23A/230VAC	0.2A/277VAC					
	INRUSH CURRENT (Typ.)	COLD START 2	OA(twidth=260µs meas	sured at 50% Ipeak) at 2	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.6	<0.5W for Blank	<0.5W for Blank-Type, <1.2W for AUX-Type					
	SHORT CIRCUIT	Constant current limiting, recovers automatically after fault condition is removed						
		110 ~ 130V						
ROTECTION	OVER VOLTAGE	Shutdown o/p v	oltage, re-power on	o recover				
	OVER TEMPERATURE	Shutdown o/p v	oltage,re-power on	to recover				
	DIMMING	Please refer to	"DIMMING OPERA	TION" section				
UNCTION	SYNCHRONIZATION	Please refer to	"SYNCHRONIZATI	ON OPERATION" sec	tion			
	TEMP. COMPENSATION	By external NTC, please refer to "TEMPERATURE COMPENSATION OPERATION" section						
	WORKING TEMP.	-	case=-30 ~ +90°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)					
	MAX. CASE TEMP.	Tcase=+90°C			,			
	WORKING HUMIDITY	20 ~ 90% RH no	n-condensing					
NVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10						
	TEMP. COEFFICIENT	±0.03%/℃ (0						
	VIBRATION	,	<u> </u>	nd for 60min, each alo	20 Y V 7 2006			
	SAFETY STANDARDS	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes UL8750(except for DA2-Type), CSA C22.2 No.250.13-12, ENEC BS EN/EN61347-1, BS EN/EN61347-2-13, BS EN/EN6238 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)						
	DALI STANDARDS	IEC62386-101,	• • • • • • • • • • • • • • • • • • • •					
AFETY &	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC:I/P-DA:1.5KVAC; O/P-DA:1.5KVAC						
MC	ISOLATION RESISTANCE	I/P-O/P:>100M Ohms / 500VDC / 25°C/ 70% RH						
	EMC EMISSION Note.7	Compliance to BS EN/EN55015, BS EN/EN61000-3-2 Class C(@load ≥ 40%) ; 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						
	MTBF	2271.4K hrs min. Telcordia SR-332 (Bellcore) ; 193.7K hrs min. MIL-HDBK-217F (25°C)						
THERS	DIMENSION	123.5*81.5*23mm (L*W*H)						
-	PACKING	0.24Kg : 54pcs/	15Kg/1.12CUFT					

- 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/80V output set by DIP switch.
- 5. Current ripple is measured 50%~100% of maximum voltage under rated power delivery.
- 6. Standby power consumption is measured at 180-230VAC.
 7. 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)
- 8. 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.
 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 : 60KHz PWM fosc : 80KHz



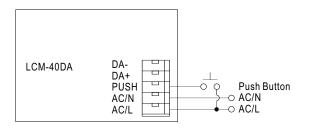
■ DIP SWITCH TABLE

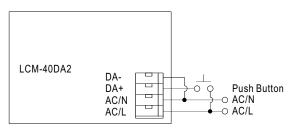
LCM-40DA/DA2 is a multiple-stage constant current driver, selection of output current through DIP switch is exhibited below.

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





\Re 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.

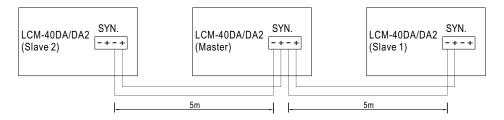
★DALI interface(primary side; for DA/DA2-Type)

- · 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)

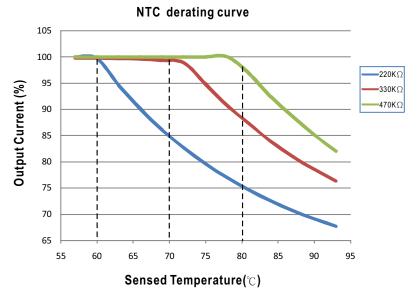


NOTE: 1. Please make sure all units are set to 100% dimming setting (factory default) before synchronizing.

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

■ TEMPERATURE COMPENSATION OPERATION

LCM-40DA/DA2 have the built-in temperature compensation function; by connecting a temperature sensor (NTC resistor) between the +NTC/-NTC terminal of LCM-40DA/DA2 and the detecting point on the lighting system or the surrounding environment, output current of LCM-40DA/DA2 could be correspondingly changed, based on the sensed temperature, to ensure the long life of LED.



© LCM-40DA/DA2 can still be operated normally when the NTC resistor is not connected and the value of output current will be the current level selected through the DIP switch.

NTC reference:

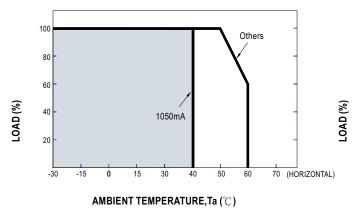
NTC resistance	Output Current
220K	< 60° C, 100% of the rated current (corresponds to the setting current level) > 60° C, output current begins to reduce, please refer to the curve for details.
330K	<70°C, 100% of the rated current (corresponds to the setting current level) >70°C, output current begins to reduce, please refer to the curve for details.
470K	< 80°C, 100% of the rated current (corresponds to the setting current level) > 80°C, output current begins to reduce, please refer to the curve for details.

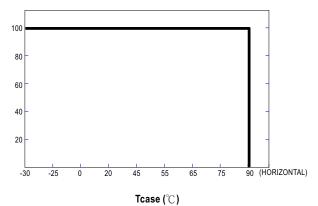
Notes: 1. MEAN WELL does not offer the NTC resistor and all the data above are measured by using THINKING TTC03 series.

- 2. If other brands of NTC resistor is applied, please check the temperature curve first.
- © Dimming and synchronization function of the driver will be invalid when the "temperature compensation" function is in use.

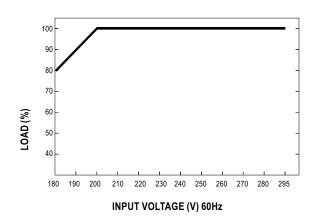


■ OUTPUT LOAD vs TEMPERATURE



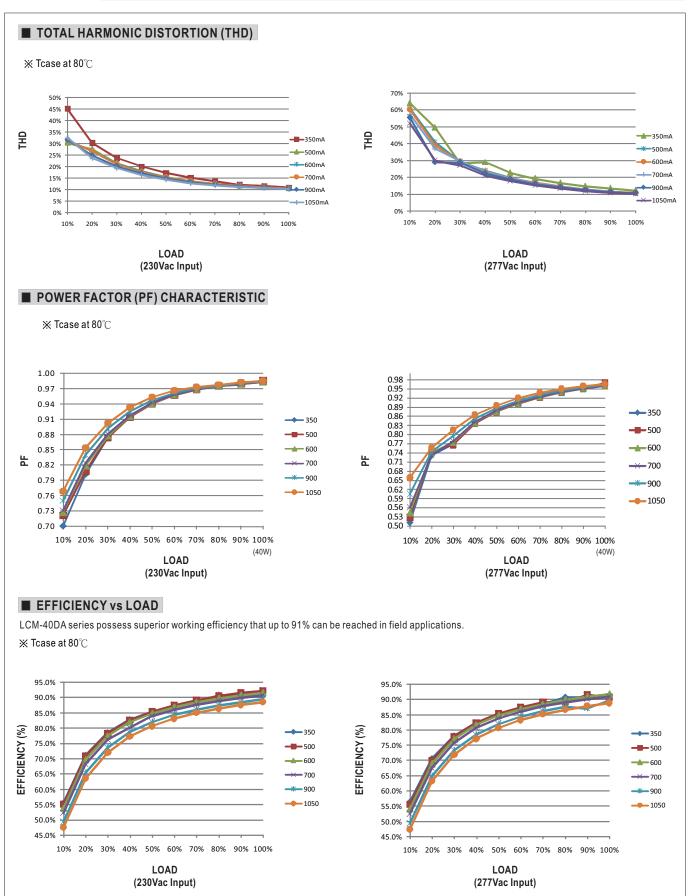


■ STATIC CHARACTERISTIC



X De-rating is needed under low input voltage.

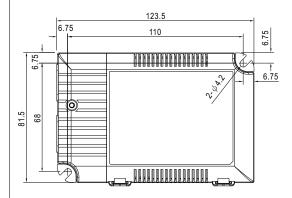


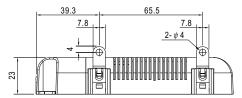


Tolerance:±1

Unit:mm

■ MECHANICAL SPECIFICATION





Terminal Pin No. Assignment(TB1)(LCM-40DA)

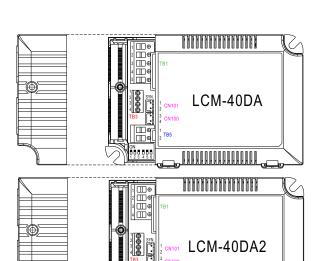
	Pin No.	Assignment	Pin No.	Assignment
	1 AC/L		4	DA+
	2 AC/N		5	DA-
ĺ	3 PUSH			

Terminal Pin No. Assignment(TB1)(LCM-40DA2)

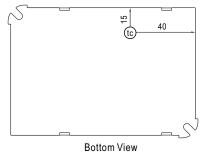
			,	/ \
Pin No. Assignment		Pin No.	Assignment	
1		AC/L	4	DA-
2		AC/N		
3 DA+				

※ Terminal Pin No. Assignment(TB3)

	, , , , , , , , , , , , , , , , , , ,						
Pin No. Assignment		Pin No.	Assignment				
1 +FAN(+AUX)		3	+NTC				
	2	-FAN(-AUX)	4	-NTC			



Case No.LCM-60A



• (tc) : Max. Case Temperature

© Pin1(+FAN) / Pin2(-FAN) is the Auxiliary DC output for the optional model LCM-40DA-AUX; it can be used to drive fan.

★ Terminal Pin No. Assignment(TB5)

Pin No.	Assignment
1	+V
2	-V

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

% OTN. Connector(CNTOT/CNTO).301 B2B-XITO Equivalent						
Pin No.	Assignment	Mating Housing	Terminal			
1,3	+	JST XHP	JST SXH-001T-P0.6			
2.4	_	or equivalent	or equivalent			

■ Installation Manual

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