









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

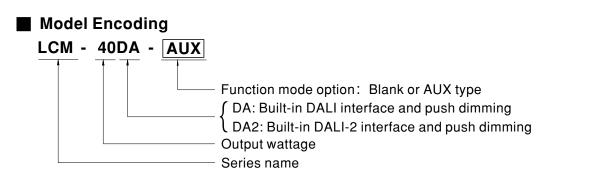
GTIN CODE

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• 3 years warranty

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 180~295VAC 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 $-30^{\circ}C \rightarrow +90^{\circ}C$ 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.



Туре	Function	Note	
Blank	nk standby power consumption <0.5W		
AUX	Standby power consumption <1.2W and Auxiliary DC output(12V/50mA)		



SPECIFICATION

MODEL LCM-40 -Current level selectable via DIP switch, please refer to"DIP SWITCH TABLE" section CURRENT LEVEL 500mA 600mA 900mA 1050mA 350mA 700mA(default) RATED POWER 42W DC VOLTAGE RANGE 2~100V 2~80V 2~67V 2~57V 2~45V 2~40V OUTPUT **OPEN CIRCUIT VOLTAGE (max.)** 110V 65V CURRENT RIPPLE 5.0% max. @rated current Note.5 CURRENT TOLERANCE $\pm 5\%$ AUXILIARY DC OUTPUT Nominal 12V(deviation 11.4~12.6V)@50mA for AUX-Type only Note.3 Note.9 SETUP TIME 500ms / 230VAC 180~295VAC 254 ~ 392VDC VOLTAGE RANGE Note.2 (Please refer to "STATIC CHARACTERISTIC" section) FREQUENCY RANGE 47~63Hz $PF \ge 0.975/230VAC$, $PF \ge 0.95/277VAC@$ full load POWER FACTOR (Typ.) (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section) THD<20%(@load≧75%) TOTAL HARMONIC DISTORTION (Please refer to "TOTAL HARMONIC DISTORTION(THD)" section) INPUT EFFICIENCY (Typ.) 91% Note.4 0.23A/230VAC 0.2A/277VAC AC CURRENT (Tvp.) INRUSH CURRENT (Typ.) COLD START 20A(twidth=260µs measured at 50% lpeak) at 230VAC; Per NEMA 410 MAX. No. of PSUs on 16A 26 units (circuit breaker of type B) / 44 units (circuit breaker of type C) at 230VAC CIRCUIT BREAKER LEAKAGE CURRENT <0.5mA/240VAC STANDBY POWER <0.5W for Blank-Type, <1.2W for AUX-Type CONSUMPTION Note.6 SHORT CIRCUIT Constant current limiting, recovers automatically after fault condition is removed 110~130 **OVER VOLTAGE** PROTECTION Shutdown o/p voltage, re-power on to recover **OVER TEMPERATURE** Shutdown o/p voltage, re-power on to recover DIMMING Please refer to "DIMMING OPERATION" section Please refer to "SYNCHRONIZATION OPERATION" section SYNCHRONIZATION FUNCTION TEMP. COMPENSATION By external NTC, please refer to "TEMPERATURE COMPENSATION OPERATION" section WORKING TEMP. Tcase=-30 ~ +90°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section) MAX. CASE TEMP. Tcase=+90°C WORKING HUMIDITY 20~90% RH non-condensing ENVIRONMENT -40 ~ +80°C, 10 ~ 95% RH STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT ±0.03%/℃ (0 ~ 50℃) VIBRATION 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/EN62384 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 DALLSTANDARDS IEC62386-101, 102, 207, 251 **SAFETY &** WITHSTAND VOLTAGE I/P-O/P:3.75KVAC;I/P-DA:1.5KVAC; O/P-DA:1.5KVAC EMC ISOLATION RESISTANCE I/P-O/P:>100M Ohms / 500VDC / 25°C / 70% RH Compliance to BS EN/EN55015, BS EN/EN61000-3-2 Class C(@load ≥40%) ; BS EN/EN61000-3-3; EMC EMISSION Note.7 GB17625.1,GB17743, EAC TP TC 020 Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN61547, light industry level(surge immunity Line-Line 2KV), EMC IMMUNITY EAC TP TC 020 MTBF 2271.4K hrs min. Telcordia SR-332 (Bellcore) ; 193.7K hrs min. MIL-HDBK-217F (25°C) DIMENSION 123.5*81.5*23mm (L*W*H) OTHERS PACKING 0.24Kg; 54pcs/15Kg/1.12CUFT 1. All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. NOTE 2. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. 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/80V output set by DIP switch. 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. 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). 9. 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. 10. 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.

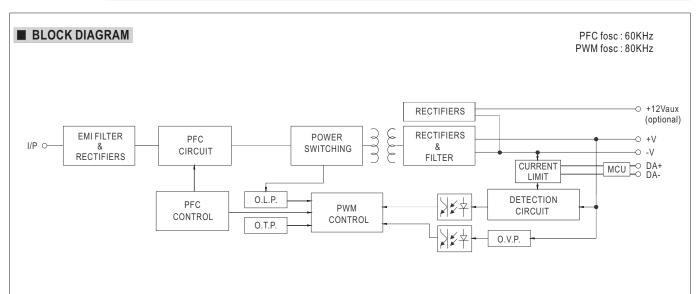
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File Name:LCM-40DA-SPEC 2022-03-16



40W Multiple-Stage Constant Current Mode LED Driver

LCM-40DA series



DIP SWITCH TABLE

LCM-40DA/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-40DA 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.

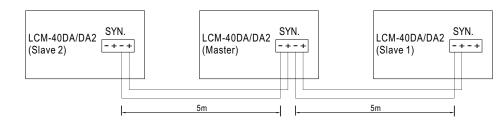
*****DALI interface(primary side; for DA/DA2-Type)

- · 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

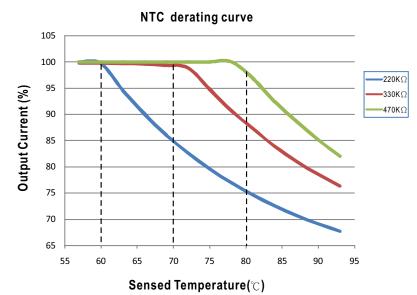
- Synchronization up to 10 drivers (1 master + 9 slaves)
- Dimming operating range : 10%~100%
- Sync cable length : < 5m
- Sync cable type : Flat cable
- Sync cable cross section area : 22 24 AWG (0.2~0.3mm²)



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	$<60^{\circ}C$, 100% of the rated current (corresponds to the setting current level) $>60^{\circ}C$, 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.		

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

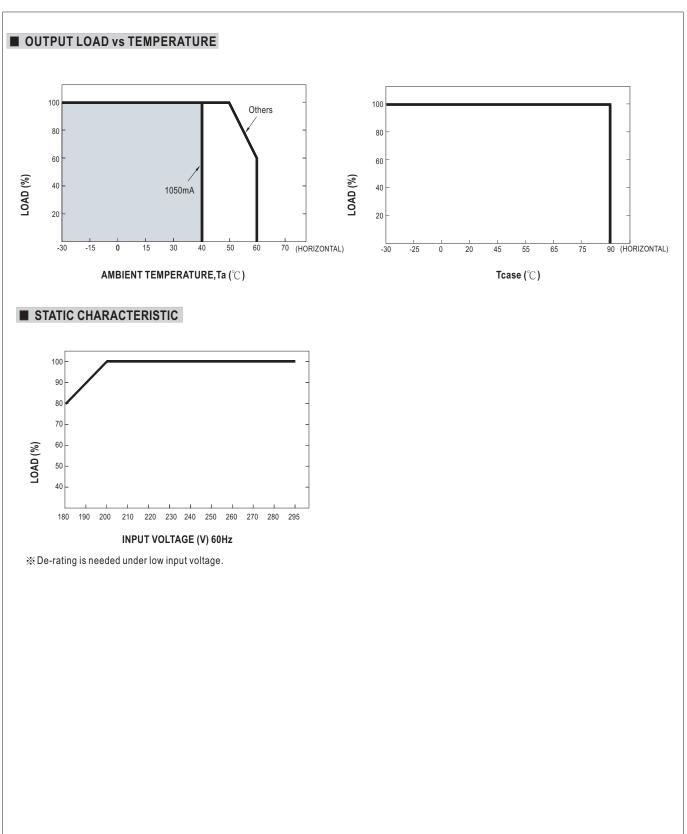
2. If other brands of NTC resistor is applied, please check the temperature curve first.

O Dimming and synchronization function of the driver will be invalid when the "temperature compensation" function is in use.



40W Multiple-Stage Constant Current Mode LED Driver

LCM-40DA series

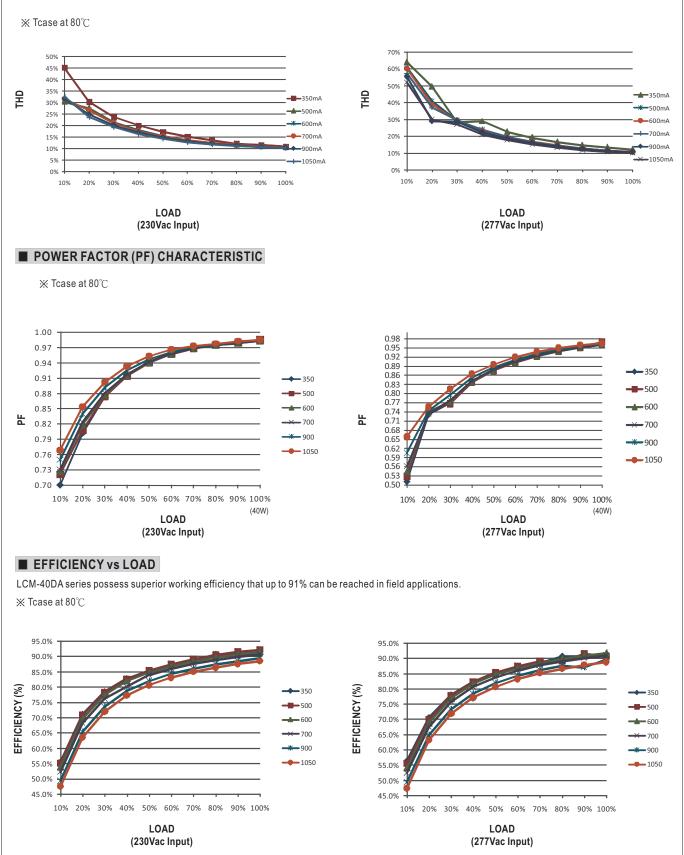




40W Multiple-Stage Constant Current Mode LED Driver

LCM-40DA series

TOTAL HARMONIC DISTORTION (THD)



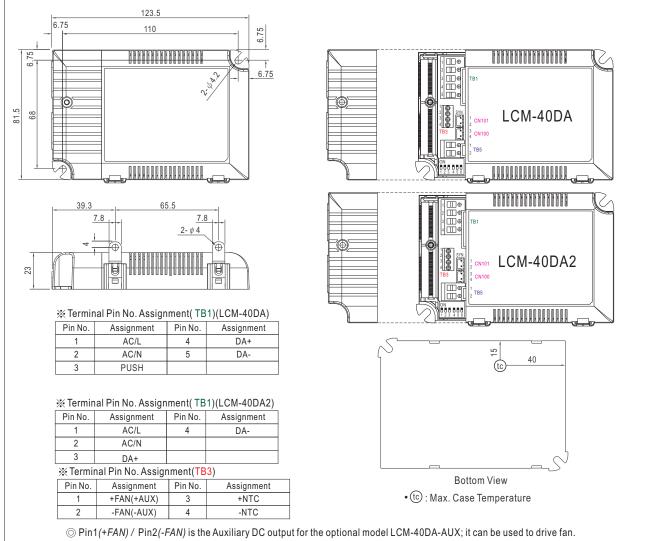
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LCM-40DA series



Case No.LCM-60A Unit:mm



 ※ Terminal Pin No. Assignment(TB5)

 Pin No.
 Assignment

1	+V
2	-V

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