

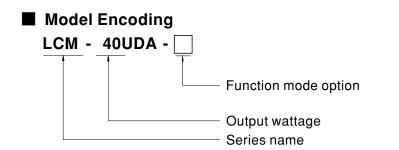


Features

- Constant Current mode output with multiple levels selectable by dip switch
- Plastic housing with class II design
- Built-in active PFC function
- Functions: DALI interface(logarithm or linear dimming curve selectable), push dimming, synchronization up to 10units
- 3 years warranty

Description

LCM-40UDA series is a 35W LED AC/DC constant current mode output LED driver featuring the multiple levels selectable by dip switch and the DALI interface with the compliance to IEC62386-207. LCM-40UDA operates from $90 \sim 132$ VAC and offers different current levels ranging between 350mA and 1050mA. Thanks to the efficiency up to 87.5%, with the fanless design, the entire series is able to operate for -30° C $\sim +90^{\circ}$ C case temperature under free air convection. In addition, LCM-40UDA is equipped with push dimming and synchronization so as to provide the optimal design flexibility for LED lighting system.



Туре	Function	Note
Blank	DALI and push dimming	In Stock
AUX	DALI and push dimming and Auxiliary DC output	By request



Applications

- LED indoor lighting
- LED office lighting
- LED architectural lighting
- LED panel lighting

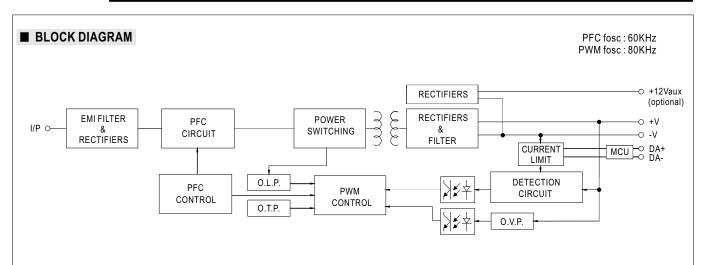


SPECIFICATION

MODEL		LCM-40UDA-							
		Current level selectable via DIP switch, please refer to"DIP SWITCH TABLE" section							
	CURRENT LEVEL	350mA	500mA	600mA	700mA(default)	900mA	1050mA		
	RATED POWER	35W	i				i		
ουτρυτ	DC VOLTAGE RANGE	2 ~ 100V	2~70V	2~59V	2 ~ 50V	2 ~ 39V	2~34V		
001101	OPEN CIRCUIT VOLTAGE (max.)	110V	·		65V		·		
	CURRENT RIPPLE Note.6	5.0% max. @rated current							
	CURRENT TOLERANCE	±5%							
	AUXILIARY DC OUTPUT	Nominal 12V(deviation 11.4~12.6V)@50mA for AUX-Type only							
	SETUP TIME Note.3	1000ms / 115VAC							
		90 ~ 132VAC 127 ~ 186VDC							
	VOLTAGE RANGE Note.2	(Please refer to "STATIC CHARACTERISTIC" section)							
	FREQUENCY RANGE	47 ~ 63Hz							
INPUT	POWER FACTOR (Typ.)	PF≧0.98/115VAC @full load (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)							
	TOTAL HARMONIC DISTORTION	THD< 20%(@loa (Please refer to f		C DISTORTION(THD)" section)				
	EFFICIENCY (Typ.) Note.4	87.5%							
	AC CURRENT (Typ.)	0.43A/115VAC							
	INRUSH CURRENT (Typ.)	COLD START 15	A(twidth=270µs meas	sured at 50% Ipeak) at 1	15VAC; Per NEMA 410				
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	22 units (circuit breaker of type B) / 38 units (circuit breaker of type C) at 115VAC							
	LEAKAGE CURRENT	<0.5mA / 120VAC							
	SHORT CIRCUIT	Constant current limiting, recovers automatically after fault condition is removed							
		110 ~ 130V							
PROTECTION	OVER VOLTAGE	Shutdown o/p voltage, re-power on to recover							
	OVER TEMPERATURE	Shutdown o/p ve	oltage,re-power on	to recover					
	DIMMING	Please refer to "	DIMMING OPERA	TION" section					
FUNCTION	SYNCHRONIZATION	Please refer to "SYNCHRONIZATION OPERATION" section							
	TEMP. COMPENSATION	By external NTC	By external NTC, please refer to "TEMPERATURE COMPENSATION OPERATION"section						
	WORKING TEMP.	Tcase=-30 ~ +90	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	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH							
	TEMP. COEFFICIENT	±0.03%/°C (0~	50℃)						
	VIBRATION	10 ~ 500Hz, 2G	Omin./1cycle, perio	od for 60min. each alo	ng X, Y, Z axes				
	SAFETY STANDARDS	UL8750 approve							
	DALI STANDARDS		- 62386-101, 102, 20	17					
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3.75KVA							
EMC	ISOLATION RESISTANCE			0°C / 70% RH					
	EMC EMISSION	I/P-O/P:>100M Ohms / 500VDC / 25°C / 70% RH Compliance to FCC part 15 Subpart B							
	MTBF	193.6K hrs min. MIL-HDBK-217F (25°C)							
OTHERS	DIMENSION	123.5*81.5*23mi		/					
	PACKING	0.28Kg ; 54pcs/1	1 /						
NOTE	 De-rating may be needed u Length of set up time is me Efficiency is measured at 50 The driver is considered as complete installation, the fin It is measured 50%~100% The ambient temperature de 	All parameters NOT specially mentioned are measured at 115VAC 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/70V output set by DIP switch. 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-quality EMC Directive on the complete installation again. It is measured 50%~100% of maximum voltage under rated power delivery. 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). Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx							



35W Multiple-Stage Constant Current Mode LED Driver LCM-40UDA series



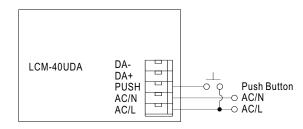
DIP SWITCH TABLE

LCM-40UDA 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



■ 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)

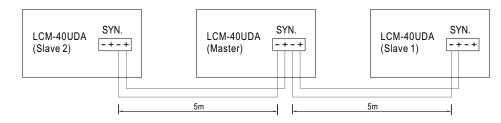
Apply DALI signal between DA+ and DA-

- 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)



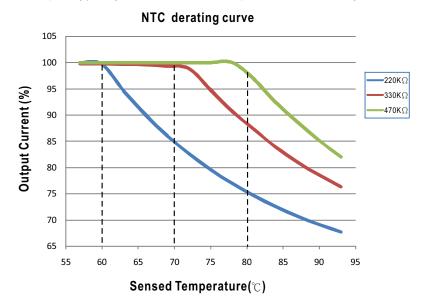
NOTE: 1. Please make sure all units are set to 100% dimming setting (factory default) before synchronizing.

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

■ TEMPERATURE COMPENSATION OPERATION

LCM-40UDA have the built-in temperature compensation function; by connecting a temperature sensor (NTC resistor) between the +NTC /-NTC terminal of LCM-40UDA and the detecting point on the lighting system or the surrounding environment, output current of LCM-40UDA could be

correspondingly changed, based on the sensed temperature, to ensure the long life of LED.



© LCM-40UDA 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:

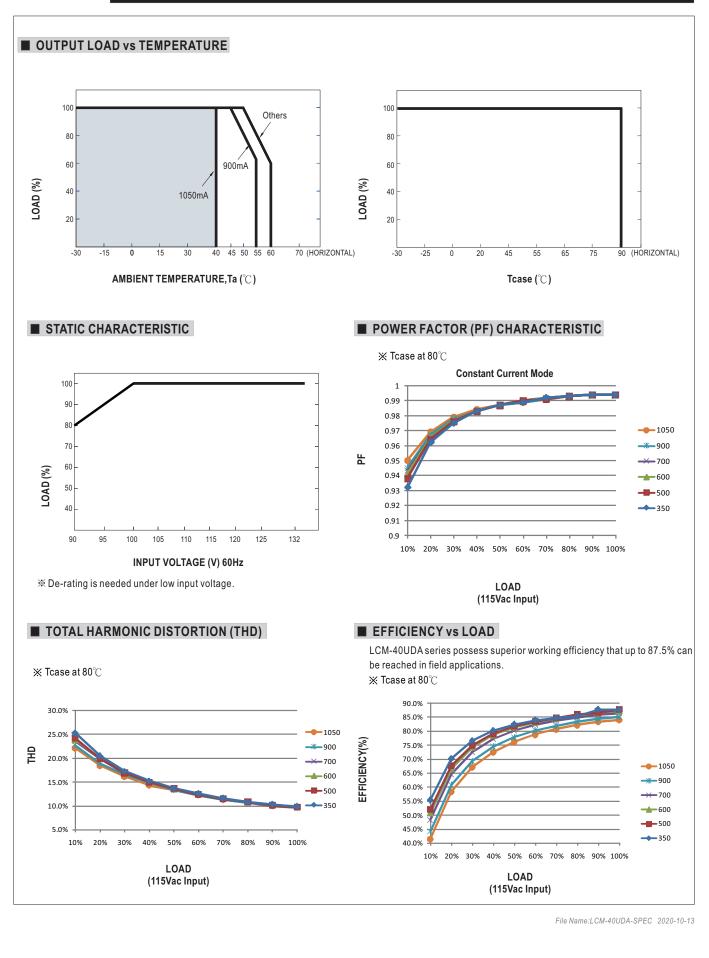
NTC resistance	Output Current
220K	< $60^{\circ}C$, 100% of the rated current (corresponds to the setting current level) > $60^{\circ}C$, output current begins to reduce, please refer to the curve for details.
330K	< 70 $^{\circ}$ C, 100% of the rated current (corresponds to the setting current level) > 70 $^{\circ}$ 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.



35W Multiple-Stage Constant Current Mode LED Driver LCM-40UDA series





35W Multiple-Stage Constant Current Mode LED Driver LCN-40UDA series

MECHANICAL SPECIFICATION

Case No.LCM-60A Unit:mm

