

Наличие и актуальные цены на

# LCM-40U

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



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







### Features

- Constant Current mode output with multiple levels selectable by dip switch
- Plastic housing with class II design
- Built-in active PFC function
- Functions: 3 in 1 dimming (dim-to-off); Auxiliary DC output; synchronization up to 10 units
- 3 years warranty

Applications

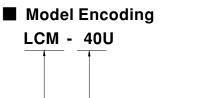
- · LED indoor lighting
- · LED office lighting
- · LED architectural lighting
- LED panel lighting

### GTIN CODE

MW Search: <a href="https://www.meanwell.com/serviceGTIN.aspx">https://www.meanwell.com/serviceGTIN.aspx</a>

### Description

LCM-40U series is a 35W LED AC/DC constant current mode output LED driver featuring the multiple levels selectable by dip switch. LCM-40U 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  $-30^{\circ}C \sim +90^{\circ}C$  case temperature under free air convection. LCM-40U is equipped with various functions, such as the dimming function and synchronization, so as to provide the optimal design flexibility for LED lighting system.



Output wattage
 Series name

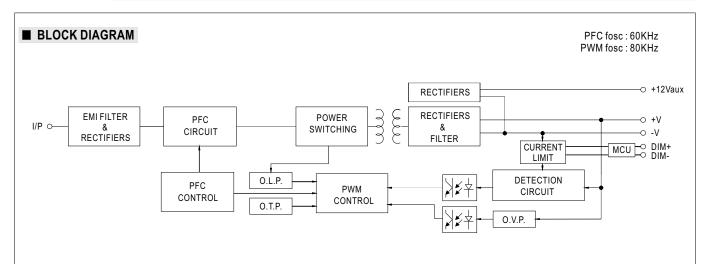


#### SPECIFICATION

SPECIFIC	ATION								
MODEL		LCM-40U							
	CURRENT LEVEL	Current level selectable via DIP switch, please refer to"DIP SWITCH TABLE" section							
		350mA	500mA	600mA	700mA(default)	900mA	1050mA		
	RATED POWER	35W							
OUTPUT	DC VOLTAGE RANGE	2 ~ 100V	2 ~ 70V	2~59V	2~50V	2 ~ 39V	2~34V		
	OPEN CIRCUIT VOLTAGE (max.)	110V			65V				
	CURRENT RIPPLE Note.6	5.0% max. @rated	d current						
	CURRENT TOLERANCE	±5%							
	AUXILIARY DC OUTPUT	Nominal 12V(deviation 11.4~12.6V)@50mA							
	SETUP TIME Note.3	1000ms / 115VAC							
	VOLTAGE RANGE Note.2	90 ~ 132VAC 127 ~ 186VDC							
		(Please refer to "STA							
	FREQUENCY RANGE	47 ~ 63Hz							
	POWER FACTOR (Typ.)	PF≥0.98/115VAC @full load (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)							
INPUT	TOTAL HARMONIC DISTORTION	THD< 20%(@load≧50%) (Please refer to "TOTAL HARMONIC DISTORTION(THD)" section)							
	EFFICIENCY (Typ.) Note.4	87.5%							
	AC CURRENT (Typ.)	0.43A/115VAC							
	INRUSH CURRENT (Typ.)	COLD START 15A(tw	vidth=270µs measured	at 50% Ipeak) at 115	VAC; 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 lim	iting, recovers automa	atically after fault c	ondition is removed				
PROTECTION		110 ~ 130V							
PROTECTION	OVER VOLTAGE	Shutdown o/p voltage, re-power on to recover							
	OVER TEMPERATURE	Shutdown o/p voltage, re-power on to recover							
	DIMMING	Please refer to "DIM	MMING OPERATION	" section					
FUNCTION	SYNCHRONIZATION	Please refer to "SYNCHRONIZATION OPERATION" section							
	TEMP. COMPENSATION	By external NTC, pl	ease refer to "TEMP	ERATURE COMPE	ENSATION OPERATIO	N"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-co	ondensing						
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C , 10 ~ 95	5% 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 approved							
	DALI STANDARDS	Comply with IEC62386-101, 102, 207							
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC							
EMC	ISOLATION RESISTANCE	I/P-O/P:>100M Ohms / 500VDC / 25°C / 70% RH							
	EMC EMISSION	Compliance to FCC part 15 Subpart B							
	MTBF	2649.1K hrs min.	Telcordia SR-332	(Bellcore); 273.	7K hrs min. MIL-HI	ЭВК-217F (25°С)			
OTHERS	DIMENSION	123.5*81.5*23mm (L	_*W*H)						
	PACKING	0.28Kg ; 54pcs/16Kg	g/1.12CUFT						
NOTE	<ol> <li>All parameters NOT special</li> <li>De-rating may be needed ut</li> <li>Length of set up time is me</li> <li>Efficiency is measured at 50</li> <li>The driver is considered as complete installation, the fin (as available on https://www</li> <li>It is measured 50%~100%</li> <li>The ambient temperature di % Product Liability Disclaimer</li> </ol>	nder low input voltag asured at first cold st 00mA/70V output set a component that wi lal equipment manufa , meanwell.com//Uplc of maximum voltage erating of 3.5°C/100C	es. Please refer to "S art. Turning ON/OFF by DIP switch. Il be operated in con acturers must re-qual ad/PDF/EMI_statem under rated power d im with fanless mode	STATIC CHARACT the driver may lea bination with final lify EMC Directive lent_en.pdf) elivery. els and of 5°C/1000	ERISTIC" sections for ad to increase of the se equipment. Since EMC on the complete installa Om with fan models for	details. et up time. C performance will ation again. operating altitude	-		



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

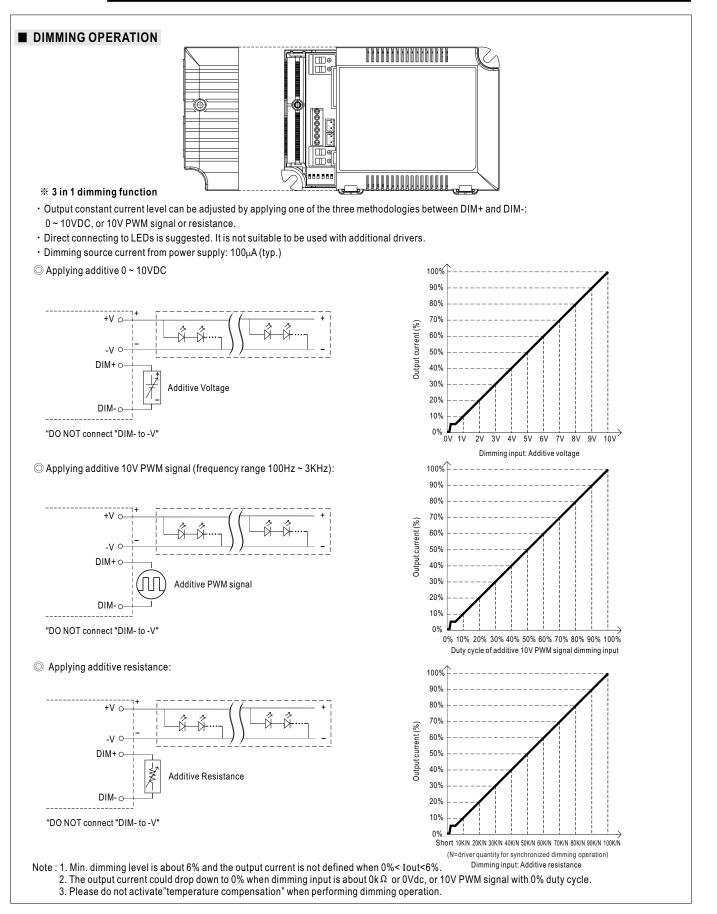


#### DIP SWITCH TABLE

LCM-40U 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

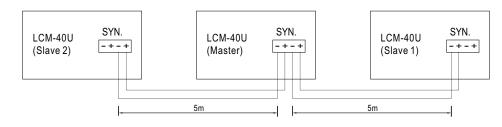






#### SYNCHRONIZATION OPERATION

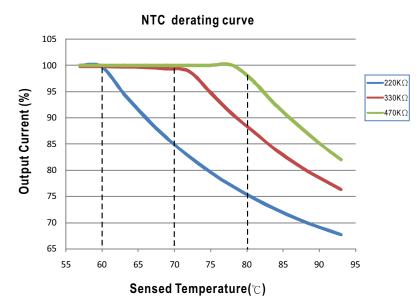
- Synchronization up to 10 drivers (1 master + 9 slaves)
- Dimming operating range : 10%~100%
- Sync cable length : < 5m
- Sync cable type : Flat cable
- Sync cable cross section area : 22 24 AWG (0.2~0.3mm<sup>2</sup>)



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



© LCM-40U 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:

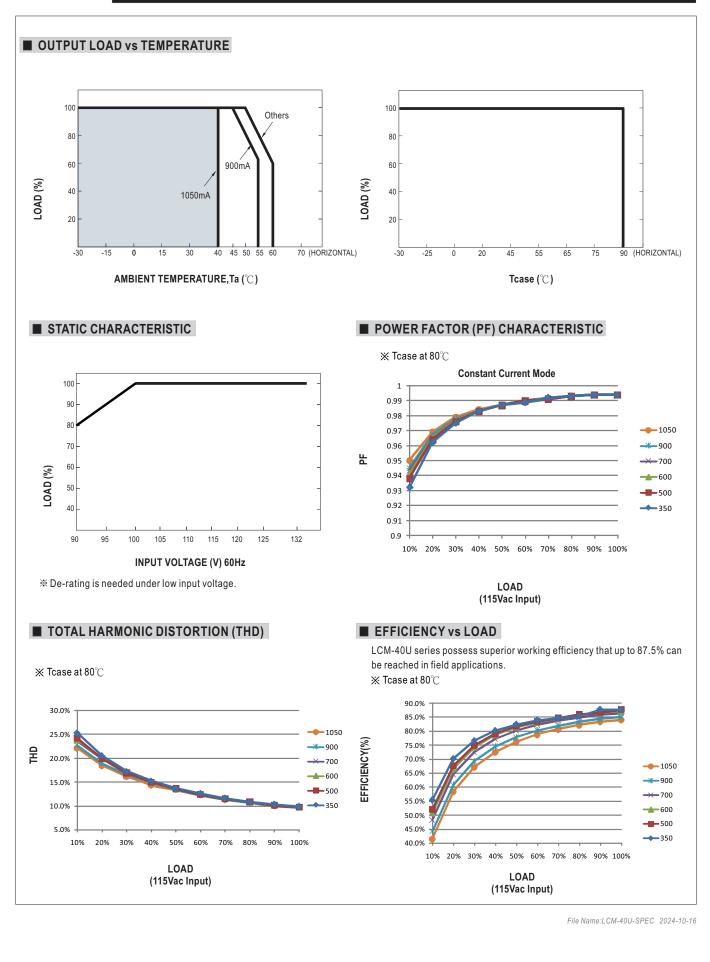
NTC resistance	Output Current
220K	< 60 $^{\circ}$ C, 100% of the rated current (corresponds to the setting current level) > 60 $^{\circ}$ C, output current begins to reduce, please refer to the curve for details.
330K	< 70 $^{\circ}$ C, 100% of the rated current (corresponds to the setting current level)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



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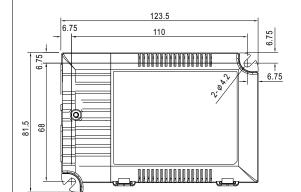


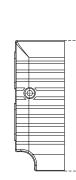


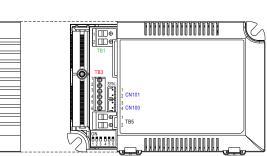
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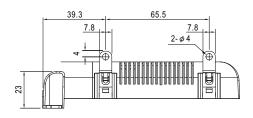
#### ■ MECHANICAL SPECIFICATION

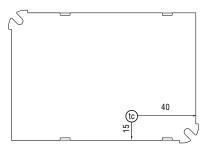












Bottom View
• (10) : Max. Case Temperature

% Terminal Pin No. Assignment(TB1)

Pin No.	Assignment
1	AC/L
2	AC/N

※ Terminal Pin No. Assignment(TB3)

Pin No.	Assignment	Pin No.	Assignment	Pin No.	Assignment
1	+FAN	3	+NTC	5	DIM+
2	-FAN	4	-NTC	6	DIM-

© Pin1(+FAN) / Pin2(-FAN) is the Auxiliary DC output; it can be used to drive fan.

※ Terminal Pin No. Assignment(TB5	)
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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			