



**LCM-40 Series 40W
Multiple Stage
Constant Current
Mode LED Driver**



MEAN WELL LCM-40 Series 40W Multiple Stage Constant Current Mode LED Driver Owner's Manual

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MEAN WELL LCM-40 Series 40W Multiple Stage Constant Current Mode LED Driver



Features

- Constant Current mode output with multiple levels selectable by dip switch
- Plastic housing with class II design
- Built-in active PFC function
- Standby power consumption < 1W
- Functions: 3 in 1 dimming (dim-to-off); Auxiliary DC output; synchronization up to 10 units
- Optional: Wireless LED driver with integrated EnOcean module
- • 3 years warranty



Applications

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

GTIN CODE

- MW Search: <https://www.meanwell.com/serviceGTIN.aspx>

Description

LCM-40 series is a 40W LED AC/DC constant current mode output LED driver featuring the multiple levels selectable by dip switch. LCM-40 operates from 180~295VAC and offers different current levels ranging between 350mA and 1050mA. Thanks to the efficiency up to 92%, with the fanless design, the entire series is able to operate for -30°C ~ +90°C case temperature under free air convection. LCM-40 is equipped with various functions, such as the dimming function and synchronization, so as to provide the optimal design flexibility for LED lighting systems.

Model Encodina

LCM - 40

EO: Optional wireless EnOcean module

Output wattage

Series name

Type	Function	Note
Blank	3 in 1 dimming (dim-to-off)	In Stock
EO	Wireless driver with integrated EnOcean module	By request

SPECIFICATION

MODEL		LCM-40					
OUT PUT	CURRENT LEVEL	Current level selectable via DIP switch, please refer to” DIP SWITCH TABLE” section					
		350mA	500mA	600mA	700mA(def ault)	900mA	1050mA
	RATED POWER	42W					
	DC VOLTAGE RANGE	2 ~ 100V	2 ~ 80V	2 ~ 67V	2 ~ 57V	2 ~ 45V	2 ~ 40V
	OPEN CIRCUIT VOLTAGE (max.)	110V			65V		
	CURRENT RIPLE Note.5	5.0% max. @rated current					
	CURRENT TOLERANCE	±5%					
	AUXILIARY DC OUTPUT	Nominal 12V(deviation 11.4~12.6V)@50mA					
	SETUP TIME Note.3	500ms / 230VAC					
	VOLTAGE RANGE Note.2	180 ~ 295VAC 254 ~ 417VDC					
(Please refer to the “STATIC CHARACTERISTIC” section)							
	FREQUENCY RANGE	47 ~ 63Hz					

INPUT	POWER FACTOR (Typ.)	$PF \geq 0.975/230VAC$, $PF \geq 0.96/277VAC$ @full load (Please refer to the “POWER FACTOR (PF) CHARACTERISTIC” section)					
	TOTAL HARMONIC DISTORTION	$THD < 20\%$ (@load $\geq 75\%$) (Please refer to the “TOTAL HARMONIC DISTORTION(THD)” section)					
	EFFICIENCY (Typ.) Note.4	91%					
	AC CURRENT (Typ.)	0.23A/230V AC	0.2A/277V C				
	INRUSH CURRENT (Typ.)	COLD START 20A(twidth=260 μ s measured at 50% Ipeak) 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	<1W					
	CONSUMPTION Note.6						
PROTECTION	SHORT CIRCUIT	Constant current limiting recovers automatically after the fault condition is removed					
	OVERVOLTAGE	110 ~ 130V					
		Shutdown o/p voltage, re-power on to recover					
	OVER TEMPERATURE	Shutdown o/p voltage, re-power on to recover					
	WIRELESS PROTOCOL(Optional)	EnOcean standard 868 MHz; Max. device(switch) saved into the memory: 33					
	DIMMING	Please refer to the “DIMMING OPERATION” section					

FUNCTION	SYNCHRONIZATION	Please refer to the “SYNCHRONIZATION OPERATION” section
	TEMP. COMPENSATION	By external NTC, please refer to the “TEMPERATURE COMPENSATION OPERATION” section
ENVIRONMENT	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
	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 40°C)
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes
SAFETY & EMC	SAFETY STANDARDS	UL8750, CSA C22.2 No.250.13-12, ENEC BS EN/EN61347-1, BS EN/EN61347-2 -13, BS EN/EN62384 independent,GB19510.14, GB19510.1, BIS IS15885, EAC TP TC 004 approved
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC
	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
OTHERS	MTBF	2397.0K hrs min. Telcordia SR-332 (Bellcore) ; 260.6K hrs min. MIL-HDBK-217F (25°C)
	DIMENSION	123.5*81.5*23mm (L*W*H)
	PACKING	0.24Kg ; 54pcs/15Kg/1.12CUFT

NOTE

1. All parameters NOT specially mentioned are measured at 230VAC input, rated current, and 25°C of ambient temperature.
 2. De-rating may be needed under low input voltages. Please refer to the "STATIC CHARACTERISTIC" sections for details.
 3. Set-up time length is measured at the first cold start. Turning ON/OFF the driver may lead to an increase of the set-up time.
 4. Efficiency is measured at 500mA/80V output set by DIP switch.
 5. Current ripple is measured at 60%~100% of maximum voltage underrated 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. To fulfill the requirements of the latest ErP regulation for lighting fixtures, this LED driver can only be used behind a switch without being permanently connected to the mains.
 9. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitudes higher than 2000m(6500ft).
- ※ Product Liability Disclaimer For detailed information, please refer to <https://www.meanwell.com/serviceDisclaimer.aspx>

MODEL

LCM-40

OUTPUT

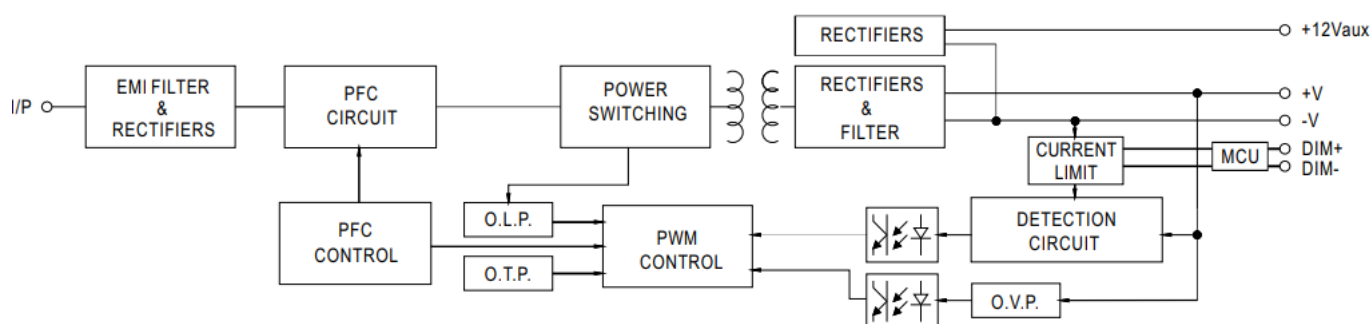
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	SYNCHRONIZATION	Please refer to "SYNCHRONIZATION OPERATION" section
	TEMP. COMPENSATION	By external NTC, please refer to the "TEMPERATURE COMPENSATION OPERATION" section
ENVIRONMENT	WORKING TEMP.	Tcase=-30 ~ +90°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)
	MAX. CASE TEMP.	Tcase=+90°C
	WORKING HUMIDITY	20 ~ 90% RH non-condensing
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	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	2397.0K hrs min. Telcordia SR-332 (Bellcore) ; 260.6K hrs min. MIL-HDBK-217F (25°C)

OTHERS	DIMENSION	123.5*81.5*23mm (L*W*H)
	PACKING	0.24Kg ; 54pcs/15Kg/1.12CUFT
NOTE	<p>10. All parameters NOT specially mentioned are measured at 230VAC input, rated current, and 25°C of ambient temperature.</p> <p>11. De-rating may be needed under low input voltages. Please refer to the “STATIC CHARACTERISTICS” sections for details.</p> <p>12. The length of set-up time is measured at the first cold start. Turning ON/OFF the driver may lead to an increase of the set-up time.</p> <p>13. Efficiency is measured at 500mA/80V output set by DIP switch.</p> <p>14. Current ripple is measured at 60%~100% of maximum voltage underrated power delivery.</p> <p>15. Standby power consumption is measured at 180~230VAC.</p> <p>16. The driver is considered as a component that will be operated in combination with the 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.</p> <p>(as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf)</p> <p>17. To fulfill the requirements of the latest ErP regulation for lighting fixtures, this LED driver can only be used behind a switch without being permanently connected to the mains.</p> <p>18. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitudes higher than 2000m(6500ft).</p> <p>※ Product Liability Disclaimer For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx</p>	

BLOCK DIAGRAM

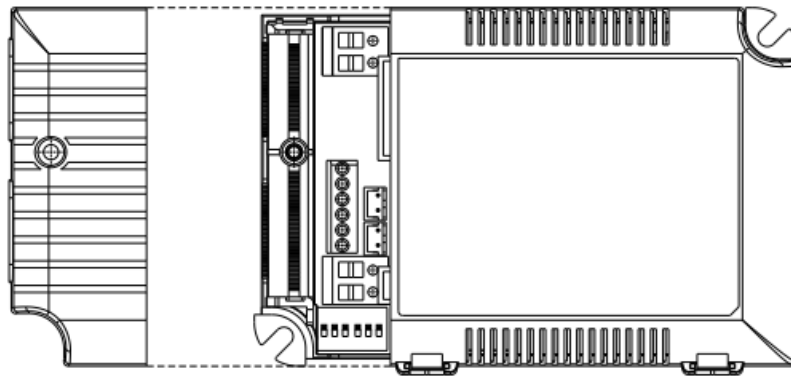


DIP SWITCH TABLE

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

Io \ 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

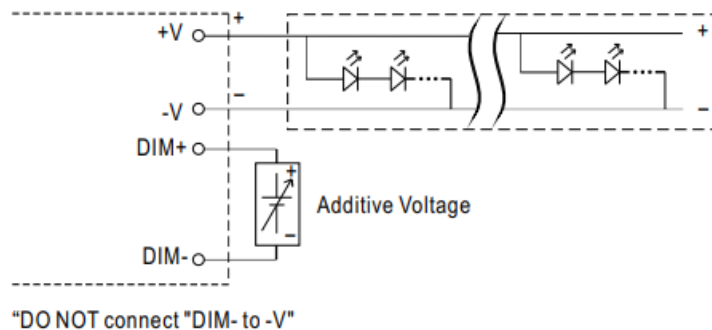
DIMMING OPERATION

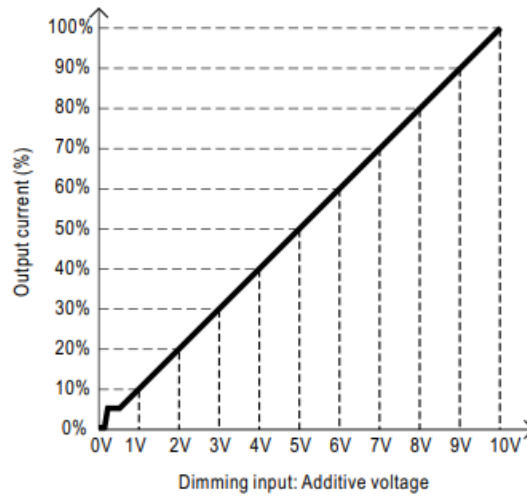


3 in 1 dimming function

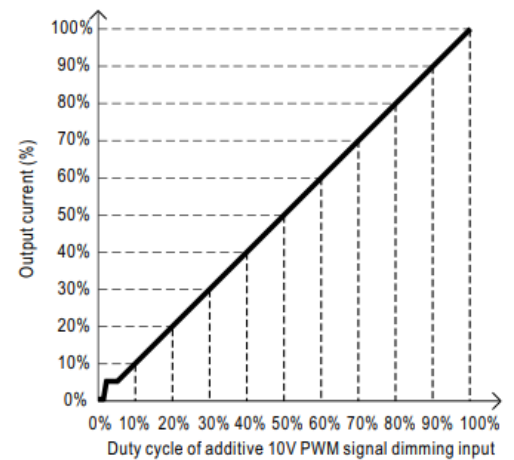
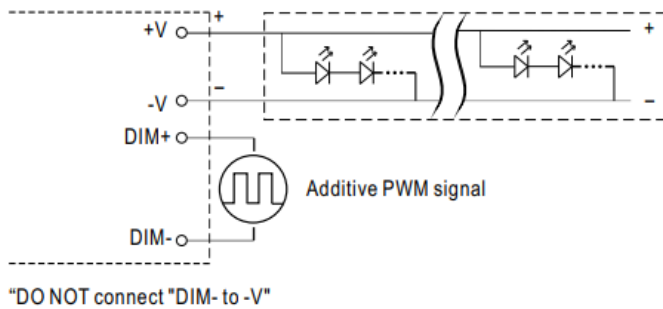
- Output constant current level can be adjusted by applying one of the three methodologies between DIM+ and DIM-: 0 ~ 10VDC, or 10V PWM signal or resistance. For optional EO model, the 3 in 1 dimming is via SYNC+ and SYNC-(CN100 or CN101 connector).
- Direct connecting to LEDs is suggested. It is not suitable to be used with additional drivers.
- Dimming source current from power supply: 100μA (typ.)

Applying additive 0 ~ 10VDC

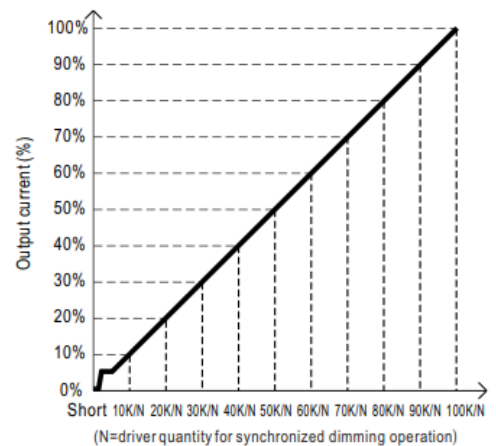
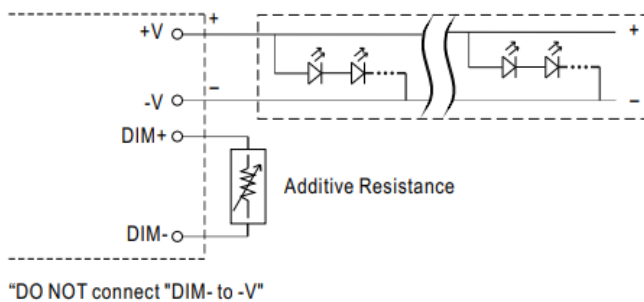




Applying additive 10V PWM signal (frequency range 100Hz ~ 3KHz)



Applying additive resistance

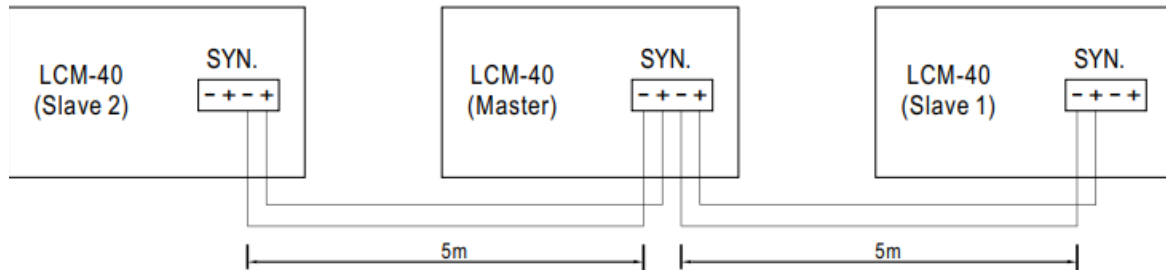


Note

1. Min. dimming level is about 6% and the output current is not defined when $0\% < I_{out} < 6\%$.
2. The output current could drop down to 0% when dimming input is about $0k\Omega$ or 0Vdc, or 10V PWM signal with 0% duty cycle.
3. Please do not activate” temperature compensation” when performing dimming operations.

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)

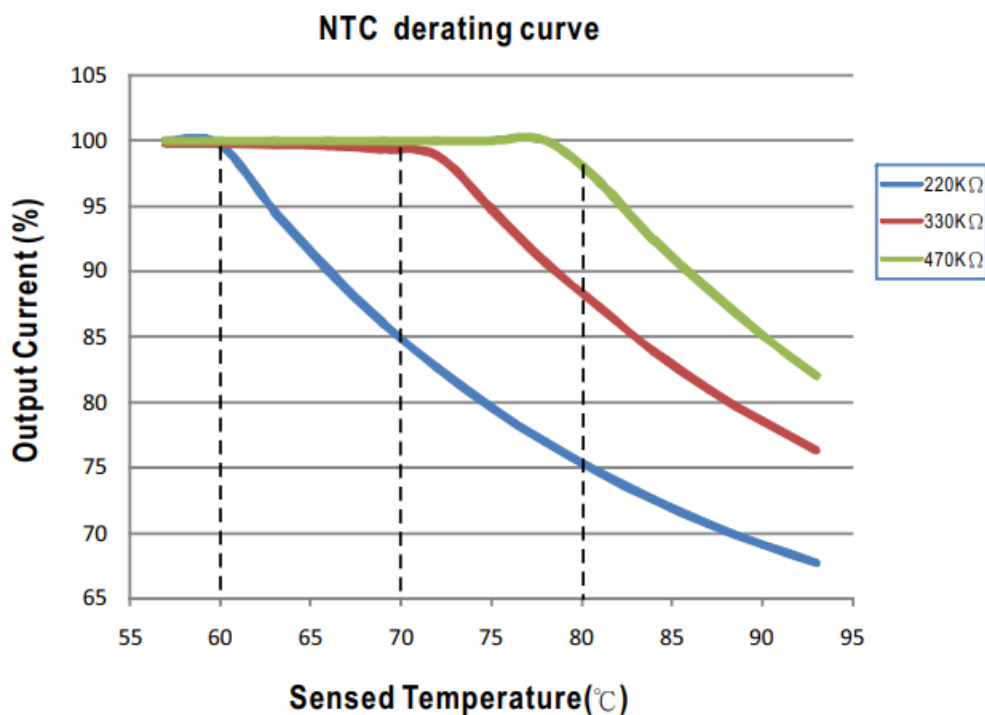


NOTE:

1. Please make sure all units are set to 100% dimming setting (factory default) before synchronizing.
2. For the optional EO model: the master is EO and the slave could be the standard model for economic arrangement.
3. Min. Dimming operating range depends on a dimmer setting.

TEMPERATURE COMPENSATION OPERATION

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



- LCM-40 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. File Name:LCM-40-SPEC 2024-10-16
- NTC reference

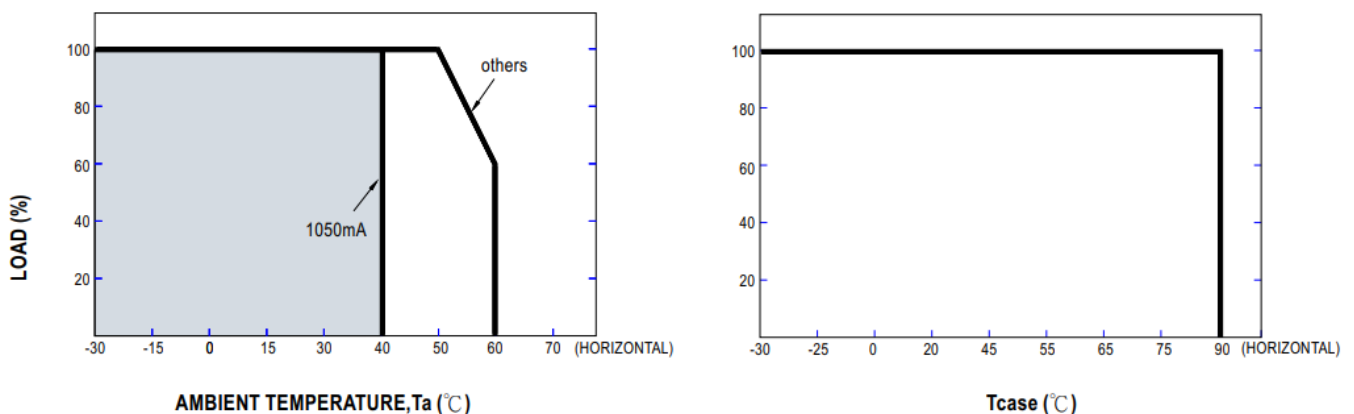
NTC resistance	Output Current
220K	< 60°C, 100% of the rated current (corresponds to the setting current level) > 60°C, output current begins to reduce, please refer to the curve for details.
330K	< 70°C, 100% of the rated current (corresponds to the setting current level) > 70°C, output current begins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

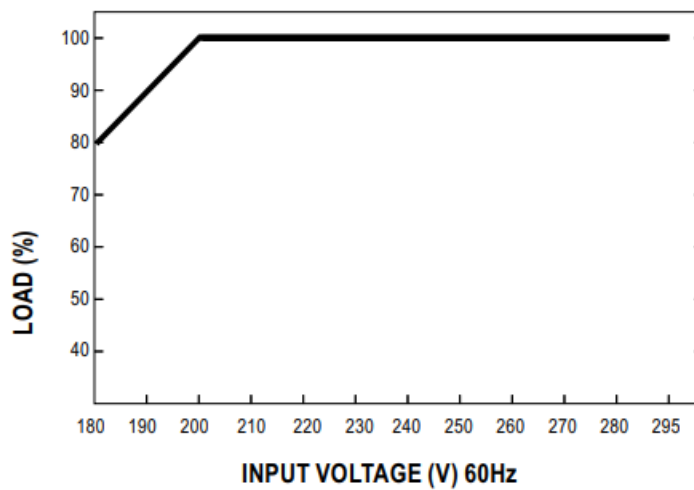
1. MEAN WELL does not offer the NTC resistor and all the data above are measured by using the THINKING TTC03 series.
2. If other brands of NTC resistors is applied, please check the temperature curve first.

The dimming and synchronization function of the driver will be invalid when the “temperature compensation” function is in use

OUTPUT LOAD vs TEMPERATURE



STATIC CHARACTERISTIC

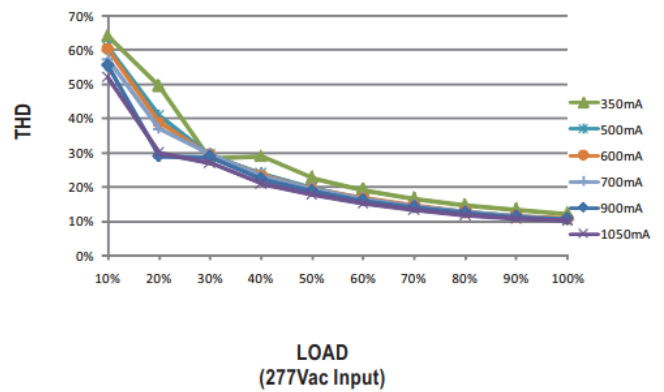
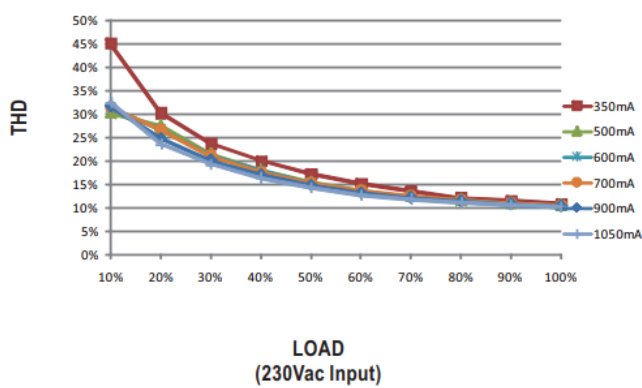


※ De-rating is needed under low input voltage.

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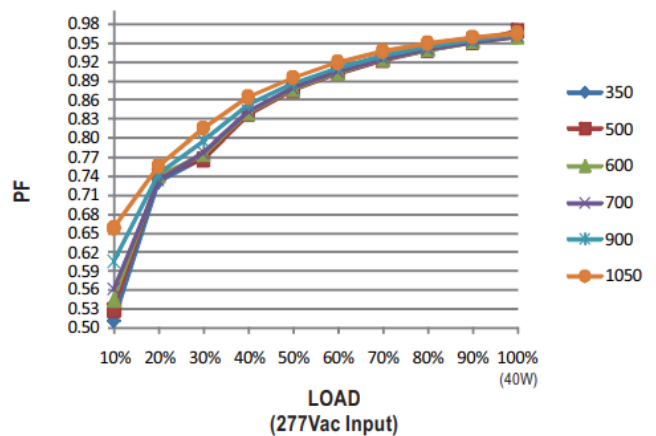
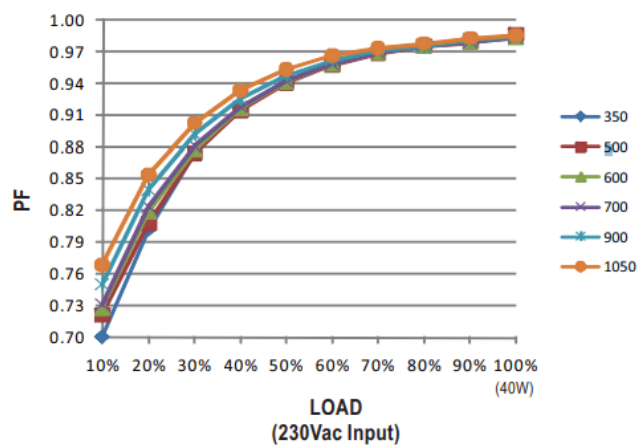
TOTAL HARMONIC DISTORTION (THD)

Tcase at 80°C



POWER FACTOR (PF) CHARACTERISTIC

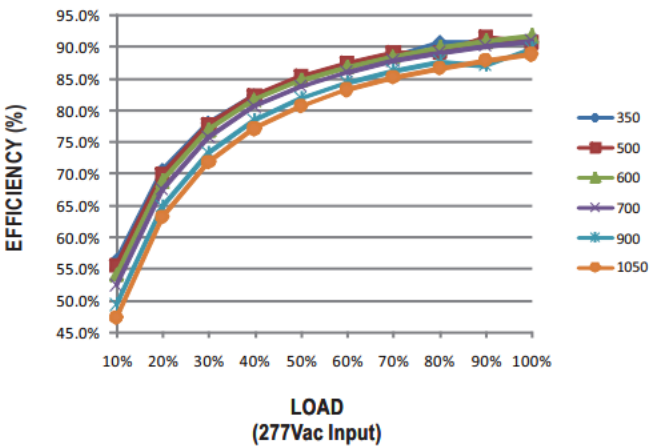
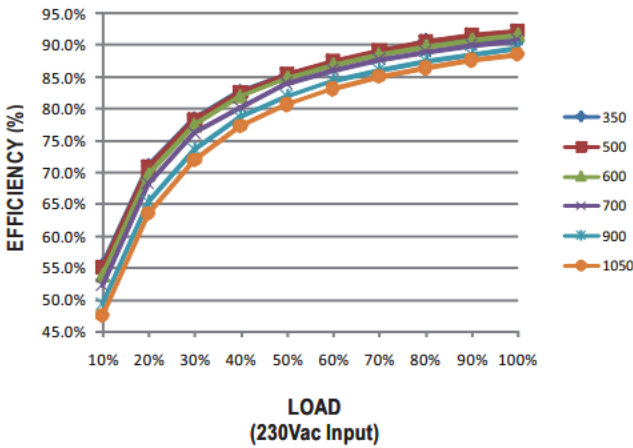
Tcase at 80°C



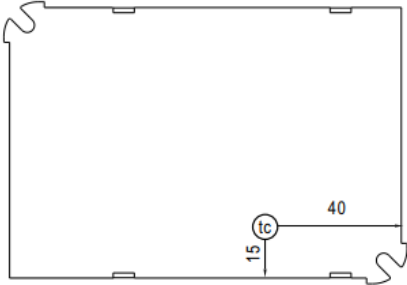
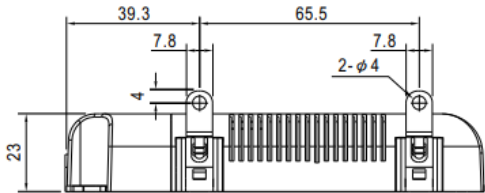
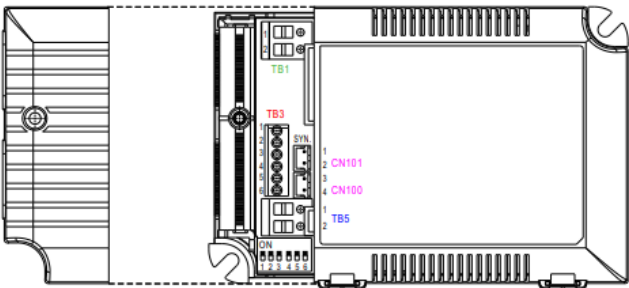
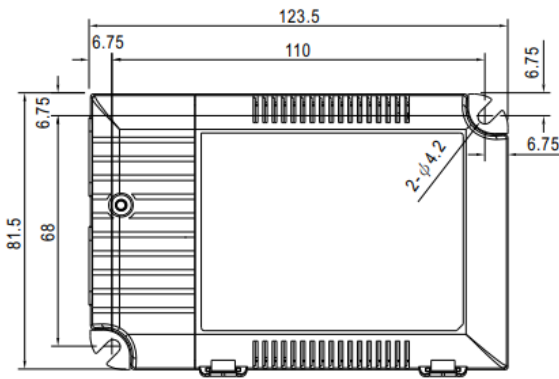
EFFICIENCY vs LOAD

LCM-40 series possess superior working efficiency that up to 91% can be reached in field applications.

Tcase at 80°C



MECHANICAL SPECIFICATION



Bottom View

• t_c : 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**)

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 or equivalent	JST SXH-001T-P0.6 or equivalent
2,4	-		

Installation Manual

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

※The following is only for Optional EO model:

LRN button description

LRN (Learn) Button

- Shortly press (around 2 seconds) the button to enter linking (pairing) / unlinking mode.
- The LED lamp connected at the output of LCM starts toggling between 10% and 90% indicating that the linking mode is active. Once activated, this
- mode stays active to provide time to link or unlink multiple switches. The mode will stop and back to normal mode after 30 seconds if no wireless telegram from the switch is received.
- For the switch to be linked, click the “I” button (top button marked on the switch plastic or “I” symbol on the back of the switch 4 times quickly, In case the output is continuous 100% for 4 seconds, it means the switch is linked successfully.
- The LED driver is now ready to accept new links on another switch. In case a linked switch to be unlinked, please use the same action as described in the linking method above.
- To exit linking / unlinking mode and return to normal operation, wait 30 seconds without doing anything or shortly press the button again.
- In order to clear all linked switches and reset the LED driver to factory settings, please press and hold the button for 10 seconds

Installation & Pairing

Hardware connection:

1. Connect the LED lamp to the driver.

2. Connect the driver to the AC mains.

There are two approaches for linking(pairing):

- Using the LRN button on the driver The instruction is in the LRN button description.
- Using the NAVIGAN wireless software

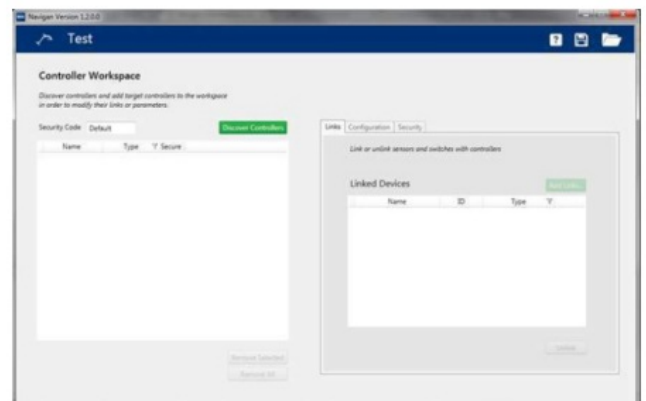
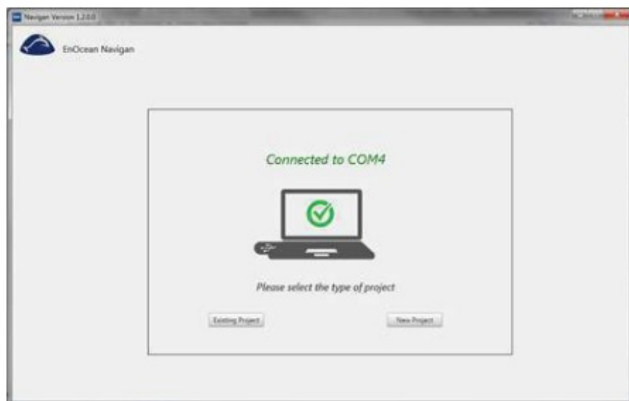
The benefit of using NAVIGAN is more dimming parameters can be configured.

- The software can be downloaded in the website link below.
- <http://www.navigan.com/>
- After the software installation, insert the NWC300 into one of USB ports from the computer.

For more details, please check the manual



NWC300



The following is only for Optional EO model

MECHANICAL SPECIFICATION

Batteryless wireless switch supplier

MW order code: WPD-06SWT. There are many other switch suppliers listed in the below



Manufacturer	Model*
Legrand	0 784 42
Siemens	5WG4222-3AB10
Berker	24121009
Jung	ENO A 595
Busch-jaeger	EASYSSENS/ENOCLEAN
Gira	2422 03
Peha	D 455/61.022 FU-BLS N
Eltako	F4T65
VIMAR	20505+20506.B+21507.B

The model list is provided for reference. For more information please contact the original supplier

World Coverage Map

COUNTRY/REGION	STANDARD	FREQUENCY
Aruba	Possibly R & TTE Directive	868 MHz-Confirm with test house
Australia / New Zealand	N.A.	
Barbados	N.A.	Note1
Bermuda	N.A.	Note1

Bolivia	N.A.	Note1
Brazil	ANATEL	868 MHz
British Virgin Islands	N.A.	Note1
Cayman Islands	Possibly R & TTE Directive	868 MHz
CEPT(European regional)*	BS EN/EN 300 220	868 MHz
Chile	Possibly R & TTE Directive	868 MHz
China	CNAS/MITT BS EN/EN 300 220	868 MHz
Colombia	Possibly ANATEL	868 MHz
Ecuador	N.A.	Note1
El Salvador	Possibly R & TTE Directive	868 MHz
French Guiana	ETSI BS EN/EN 300 220	868 MHz
Guatemala	N.A.	Note1
Hong Kong	Possibly 315MHz	Note1
India	Possibly 315MHz	Note1
Israel	Possibly 315MHz	Note1
Jamaica	N.A.	Note1
Japan 920**	ARIB STD-T108	928 MHz
Malaysia	SKMM WTS SRD / BS EN/EN 300 220	868 MHz
Mexico	We believe Mexico does not accept FCC	868 MHz
Nicaragua	N.A.	Note1

Peru	N.A.	Note1
Panama	FCC CFR47 Part 15.249	902 MHz
Russia	N.A.	
Singapore	TS SRD / BS EN/EN 300 220	868 MHz
South Africa	CASA / BS EN/EN 300 220	868 MHz
South Korea	N.A.	
Suriname	N.A.	Note1
Taiwan	Possibly 315 MHz	Note1
Trinidad & Tobago	N.A.	Note1
Turks & Caicos Islands	Possibly R & TTE Directive	868 MHz
UAE	BS EN/EN 300 220	868 MHz
Uruguay	N.A.	Note1
USA / Canada	FCC CFR47 Part 15.249	315 MHz, 902 MHz

Note 1: It is suggested to check with a local accredited certification agency.

- CEPT is the European regional organization dealing with postal and telecommunications issues and presently has 45 Members: Albania, Andorra, Austria, Azerbaijan, Belarus, Belgium, Bosnia and Herzegovina, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Liechtenstein, Lithuania, Luxembourg, Malta, Moldova, Monaco, Netherlands, Norway, Poland, Portugal, Romania, Russian Federation, San Marino, Serbia and Montenegro, Slovakia, Slovenia, Spain, Sweden, Switzerland, The former Yugoslav Republic of Macedonia, Turkey, Ukraine, United Kingdom, and Vatican.
- In February 2012, Japanese regulatory body ARIB(Association of Radio Industries and Businesses) released a new 920 MHz frequency band for radio equipment, due to LTE rollout, The 950 MHz frequency band will be obsolete by the end of 2015.



Documents / Resources



[MEAN WELL LCM-40 Series 40W Multiple Stage Constant Current Mode LED Driver](#) [pdf] Owner's Manual

LCM-40 Series, LCM-40 Series 40W Multiple Stage Constant Current Mode LED Driver, 40W Multiple Stage Constant Current Mode LED Driver, Stage Constant Current Mode LED Driver, Current Mode LED Driver, Mode LED Driver, LED Driver, Driver

References

- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

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