

MW LCM-40 Switching Power Supply Installation Guide

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MW LCM-40 Switching Power Supply



Features

- 180~295VAC input only
- Built-in active PFC
- Output current level selectable by DIP switch
- Built-in DALI interface and push dimming function (DA version)
- Built-in 0~10Vdc and PWM signal dimming function (Non-DA version)
- Power supply synchronization function up to 10 units
- Temperature compensation function by external NTC
- Class po wer unit, ungrounded
- Built-in 12V/50mA auxiliary output
- · Full plastic case enclosed
- No-load power consumption <1W (1.2W for DA version)
- Protection s: Short circuit / Over voltage / Over temperature
- 3-year warranty
- · Suitable for intelligent LED lighting

Wiring

- Housing with cable clamp for remote installation
- Use wires with an adequate cross-section (see 5)

- Use suitable mounting tools to do the wiring and mounting (see 5)
- MCB circuit breaker) with an adequate current rating to protect Use a (miniature the lighting system (see 6)

Environmental limitations

- Maximum ambient temperature must not exceed 60
- Always allow adequate ventilation clearances, 50mm, around the unit in use to prevent it from overheating
- Only install the unit in interior environments

Cautions

- This unit must be installed by a qualified electrician
- This unit is not suitable for applications where DC/DC converters are connected before LED lamps

Settings and connections

1. Output Current Level Settings

The LCM can provide various output currents by setting the DIP switch. The settings of the DIP switch are shown in the tables below.

LCM-40(DA)

Voltage ran	Selectable Curren	1	2	3	4	5	6
2-1 00V	35 0mA		_		_		_
2-8 0V	50 0mA	ON	_		_		_
2-6 7V	60 0mA	ON	ON		_		_
2-5 7V	70 0mA*	ON	ON	ON	_		ON
2-4 5V	90 0mA	ON	ON	ON	ON		ON
2-4 0V	1050mA	ON	ON	ON	ON	ON	ON

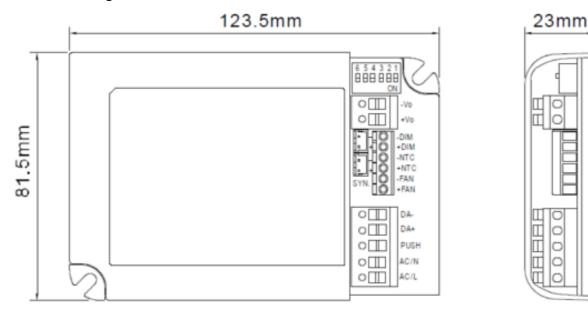
LCM-60(DA)

Voltage rang	Selectable Curren	1	2	3	4	5	6
2-90V	50 0mA	_	_		_		_
2-90V	60 0mA	ON	_		_		_
2-86V	700mA*	ON	ON		_		_
2-67V	90 0mA	ON	ON	ON	_		ON
2-57V	10 50mA	ON	ON	ON	ON		ON
2-42V	14 00mA	ON	ON	ON	ON	ON	ON

Note: The factory default setting is 700mA.

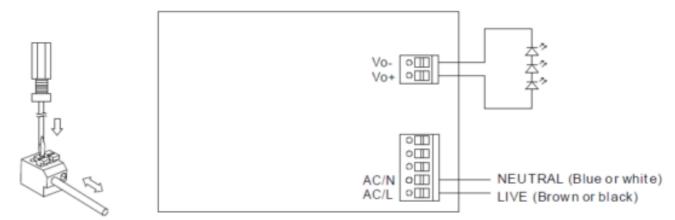
Output voltage and output wattage must not exceed the rated values.

Terminal blocks assignment for LCM



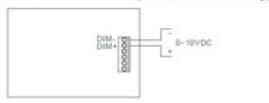
2. Connection of LED Lamps

Press down the "push button" by a slotted screwdriver to insert or remove the cable.

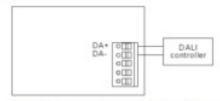


3. Connection of Dimming Functions

a. 0-10Vdc or 10V PWM (non-DA version only)

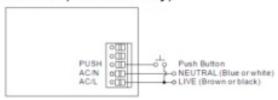


b. DALI (DA version only)



Note: Maximum DALI cable length is 300m (based on a 1.5mm² or 14AWG cable)

c. Push dim (DA version only)



Note: ONLY use the open push button with ut indicator light.

Warning: Risk of short circuit. The push-button can only be linked between the PUSH and the AC/L (brown or black).

DO NOT connect the push button to the AC/N (blue or white).

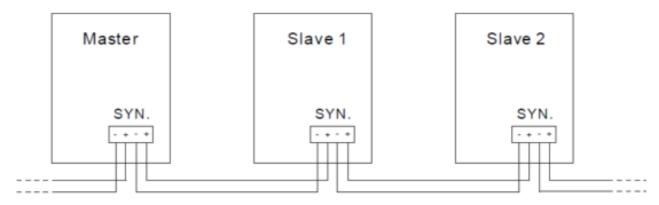
Dimming control mechanism

Function	Pushing time
Turn-ON/OFF	0.1 ~ 1 sec
Dim UP/DOWN	1.5 ~ 10 sec
Reset	> 11 sec
None	< 0.05 sec

- It will always dim up when light intensity is lower than 10%, whereas it will
- Factory dimming setting: 100% always dim down when light intensity

Synchronization operation

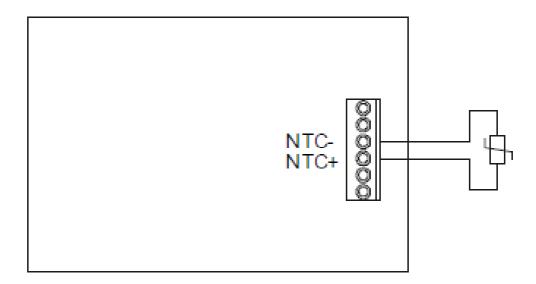
The lights LCM units (slaves) can be dimmed synchronously through an LCM unit (the master) driven by directly controlled via 0-10Vdc, 10V PWM, DALI or push dim dimming function. The wiring is shown as below.



- Mating housing for SYN. connectors : JST B2B-XH or equivalent
- Maximum number of the LCM units: 10 (1 master + 9 slaves)
- Maximum cable length between each unit: 20m (based on a cable with a cross-section of

- 0.15mm2~0.3mm2 or AWG No. of 22 ~ 26)
- Note 1: DO NOT connect dimming circuitry to slaves.
- Note 2: Please make sure all units are set to 100% dimming setting (factory default) before synchronizing.

4. NTC Connection



5. Recommended Screwdriver, Wire and Torque Setting

Туре	The cover (the blue one)	Scr ew ter minal (FAN±, NT C±, DIM±)	Push ter minal (ACL/N, PUSH, DA±, Vo±)
Solid wire		ψ0.404 -ψ0.643 mm	ψ1. 024 -ψ1.628mm
Stranded wire		0.12 9 – 0.3 26mm 2	0.823 – 2.08 mm2
Ameri can wire gauge	_	22 – 26AWG	14 – 1 8AWG
Wire stripping length	_	7mm (0.27 ")	10mm (0.39 ")
Screwdriver	6mm Phillips	3mm Philli ps	3mm Phillips
Recommended tightening torqu e	4.6 kgf-cm (4 lb-in	2.88 kgf-cm (2.5 lb-in)	
Suggested push-down strength	_	_	3 – 4 KP (6.61-8.81 lb)

6. Suggested Maximum Number of the LCM Units that can be Connected to an MCB (miniature circuit breaker) at 230Vac

Model	B10	B16	C10	C16
LCM-40(DA)	10	16	17	28
LCM-60(DA)	9	15	16	26

Note: These calculated values are based on the MCB S201 series manufactured by A BB.

Documents / Resources



MW LCM-40 Switching Power Supply [pdf] Installation Guide LCM-40 Switching Power Supply, LCM-40, Switching Power Supply

Manuals+,