

## Features

- 180~295VAC input only
- Built-in active PFC
- Output current level selectable by DIP switch
- Built-in 0~10Vdc and PWM signal dimming function
- Power supply synchronization function up to 10 units
- Temperature compensation function by external NTC
- Class II power unit, ungrounded
- Built-in 12V/50mA auxiliary output
- Full plastic case enclosed
- Protections: 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)
- Use a MCB (miniature circuit breaker) with an adequate current rating to protect the lighting system (see 6)

## Environmental limitations

- Maximum ambient temperature must not exceed 60°C
- 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 that 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

Voltage range	Selectable Current	1	2	3	4	5	6
2-100V	350mA	---	---	---	---	---	---
2-80V	500mA	ON	---	---	---	---	---
2-67V	600mA	ON	ON	---	---	---	---
2-57V	700mA*	ON	ON	ON	---	---	ON
2-45V	900mA	ON	ON	ON	ON	---	ON
2-40V	1050mA	ON	ON	ON	ON	ON	ON

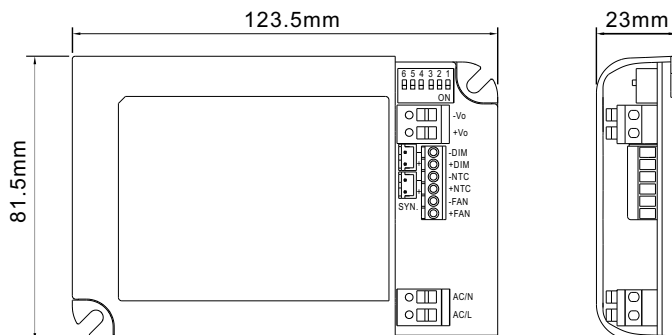
#### LCM-60

Voltage range	Selectable Current	1	2	3	4	5	6
2-90V	500mA	---	---	---	---	---	---
2-90V	600mA	ON	---	---	---	---	---
2-86V	700mA*	ON	ON	---	---	---	---
2-67V	900mA	ON	ON	ON	---	---	ON
2-57V	1050mA	ON	ON	ON	ON	---	ON
2-42V	1400mA	ON	ON	ON	ON	ON	ON

Note : 1.Factory default setting is 700mA.

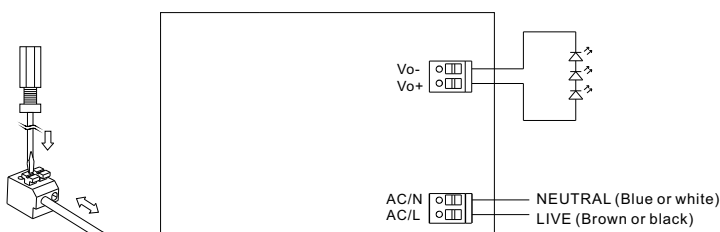
2.Output voltage and output wattage must not exceed the rated values.

### Terminal blocks assignment for LCM



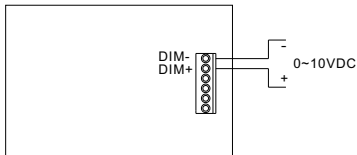
### 2. Connection of LED Lamps

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



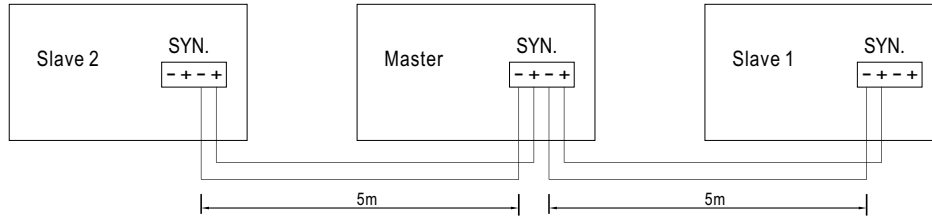
### 3. Connection of Dimming Functions

#### a. 0-10Vdc or 10V PWM



#### b. Synchronization operation

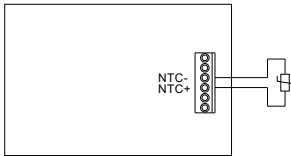
- Synchronization up to 10 drivers (1 master + 9 slaves)
- Dimming operating range : 10%~100%



- 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. For optional EO model: the master is EO and the slave could be standard model for economic arrangement.  
 3. Min. Dimming operating range depends on dimmer setting.

#### 4. NTC Connection



#### 5. Recommended Screwdriver, Wire and Torque Setting

Type	The cover (the blue one)	Screw terminal (FAN±, NTC±, DIM±)	Push terminal (ACL/N, Vo±)
Solid wire	-----	φ 0.404 - φ 0.643mm	φ 1.024 - φ 1.628mm
Stranded wire	-----	0.129 - 0.326mm <sup>2</sup>	0.823 - 2.08mm <sup>2</sup>
American wire gauge	-----	22 - 26AWG	14 - 18AWG
Wire stripping length	-----	7mm (0.27")	10mm (0.39")
Screwdriver	6mm Phillips	3mm Phillips	3mm Phillips
Recommended tightening torque	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 lbf)

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

Model	B10	B16	C10	C16
LCM-40	15	26	27	44
LCM-60	15	25	27	44

Note: These calculated values are based on MCB S201 series manufactured by ABB.