IS 15885(Part 2/Sec13)
R-41027766
(except for DA2-Type)(except for DA2-Type)

(for DA2-Type only) (for DA-Type only)

Features

- 180~277VAC input only
- Built-in active PFC
- Output current level selectable by DIP switch
- Built-in DALI interface and push dimming function
- Power supply synchronization function up to 10 units

- Class Ⅱ power unit, ungrounded
- Full plastic case enclosed
- No load power consumption <0.5W
- Protections: Short circuit / 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 4)
- Use suitable mounting tools to do the wiring and mounting (see 4)
- 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℃
- 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
- It's not suitable to connect DC/DC constant current drivers as the output loads

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.
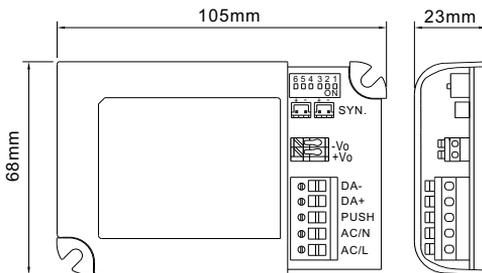
LCM-25DA(2)

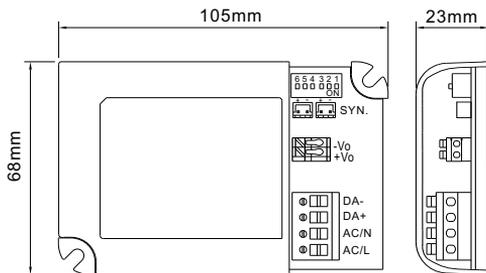| Voltage range	Selectable Current	1	2	3	4	5	6
6-54V	350mA	---	---	---	---	---	---
6-50V	500mA	ON	---	---	---	---	---
6-42V	600mA	ON	ON	---	---	---	---
6-36V	700mA*	ON	ON	ON	---	---	ON
6-28V	900mA	ON	ON	ON	ON	---	ON
6-24V	1050mA	ON	ON	ON	ON	ON	ON

Note : 1.Factory default setting is 700mA.
　　　 2.Output voltage and output wattage must not exceed the rated values.
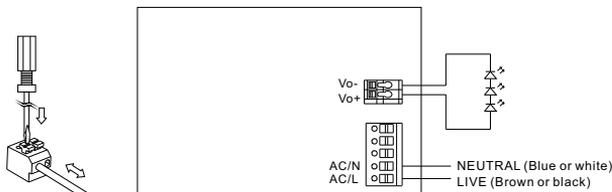
a. Terminal blocks assignment for LCM-25DA
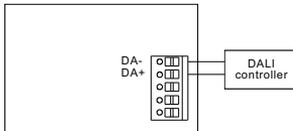
b. Terminal blocks assignment for LCM-25DA2

2. Connection of LED Lamps

Press down the "push button" by a slotted screw driver to insert or remove the cable.
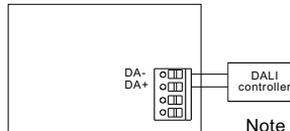
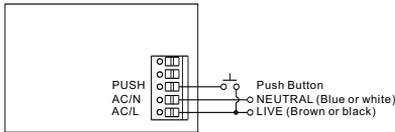## 3. Connection of Dimming Functions
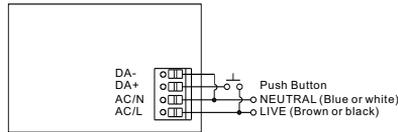
a. DALI (DA version only)

DA-
DA+ → DALI controller

b. DALI2 (DA2 version only)

DA-
DA+ → DALI controller

Note : Maximum DALI cable length is 300m
(based on a $1.5mm^2$ or 14AWG cable)

c. Push dim (DA version only)

PUSH
AC/N → Push Button
AC/L → NEUTRAL (Blue or white)
→ LIVE (Brown or black)

d. Push dim (DA2 version only)

DA-
DA+
AC/N → Push Button
AC/L → NEUTRAL (Blue or white)
→ LIVE (Brown or black)

Dimming control mechanism

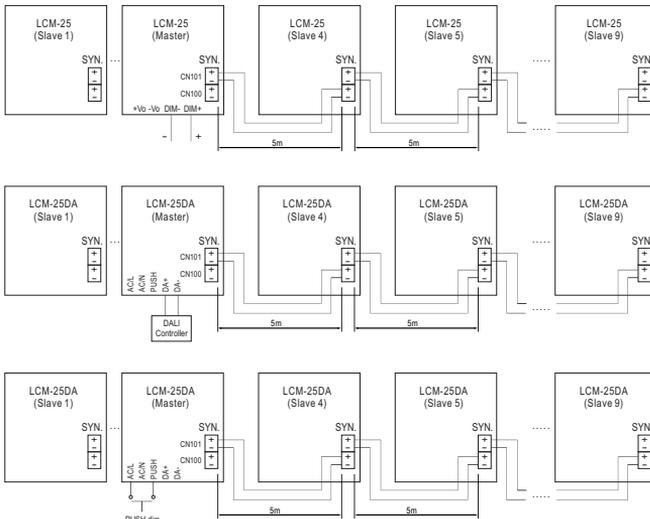| Function	Pushing time
Turn ON/OFF	0.1 ~ 1 sec
Dim UP/DOWN	1.5 ~ 10 sec
Reset	> 11 sec
None	< 0.05 sec

Note: ONLY use open push button without 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).

· Every long pushing action will change the dimming direction.
· Factory dimming setting: 100%

d. 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~$0.3mm^2$)

· Cn100, CN101 : used to synchronously control the LCM units in parallel.

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.

4. Recommended Screwdriver, Wire and Torque Setting

Type	Clamp connector	Push terminal (Vo±, DIM±)	Push terminal (ACL/N, PUSH, DA±)
Solid wire	-----	J0.8 -J1.382mm	J0.8 -J1.8mm
Stranded wire	-----	$0.5 - 1.5mm^2$	$0.5 - 2.5mm^2$
American wire gauge	-----	16 - 20AWG	14 - 20AWG
Wire stripping length	-----	7mm (0.27")	10mm (0.39")
Screwdriver	6mm Philips	3mm Slotted	3mm Slotted
Recommended tightening torque	4kgf-cm (3.47 lb-in)	-----	-----
Suggested push-down strength	-----	1.5 - 2.4 kp (3.31-5.29 lbϝ)	3 - 4 kp (6.61-8.81 lbϝ)

5. 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-25DA(2)	20	26	34	44

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