



## Features

- 180~277VAC input only
- Built-in active PFC
- Output current level selectable by DIP switch
- Built-in DALI interface and push dimming function
- Available for DALI device type 6(DT6) and device type 8(DT8) Tunable White control
- Constant power mode output with 2 channels
- Minimum dimming level 0.2%
- Emergency lighting (EL) available
- Class II power unit, ungrounded
- Full plastic case enclosed
- Standby power consumption <0.5W
- Protections: Short circuit / Over voltage / Over temperature
- 5 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

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

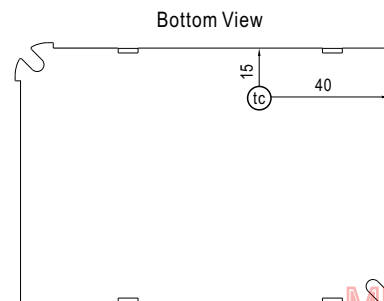
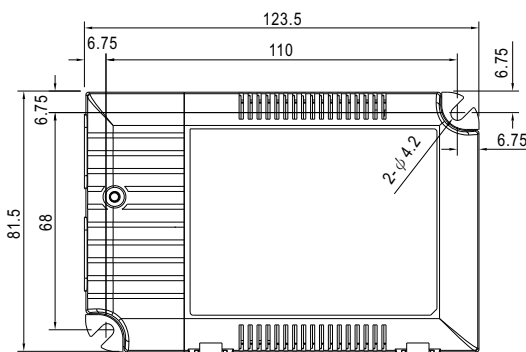
Voltage range	Selectable current	1	2	3
27-50V	500mA	----	ON	ON
		ON	ON	ON
25-50V	600mA	----	----	ON
		ON	----	ON
20-50V	700mA(factory default)	ON	ON	----
20-50V	800mA	----	ON	----
20-44V	900mA	ON	----	----
20-38V	1050mA	----	----	----

Status	4	5	Activated Channel
Single-address DT6	----	ON	CH1
Dual-address DT6	ON	ON	CH1,CH2
Single-address DT8 (factory default)	----	----	CH1,CH2
	ON	----	

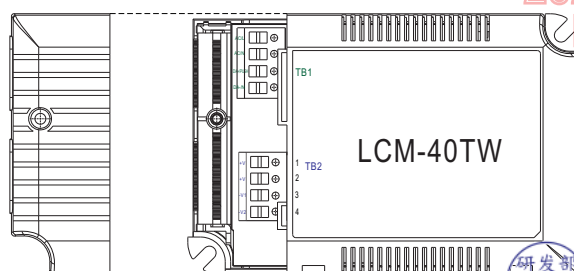
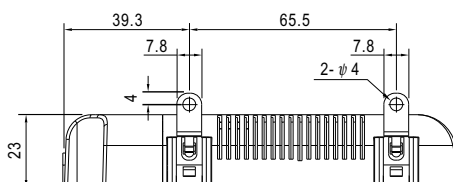
Note : 1.Factory default setting is 700mA.

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

### Terminal blocks assignment for LCM-40TW



• tc : Max. Case Temperature

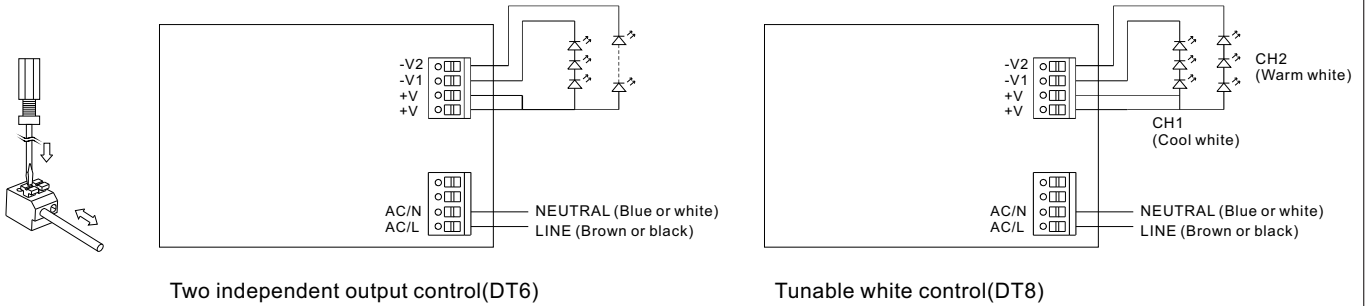


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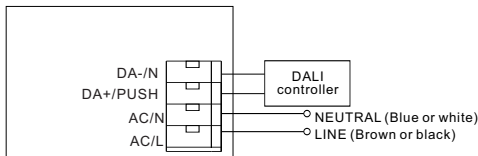
## 2. Connection of LED Lamps

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



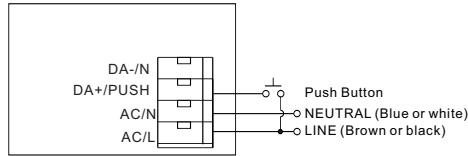
## 3. Connection of Dimming Functions

### a. DALI



Note : Maximum DALI cable length is 300m  
(based on a 1.5mm<sup>2</sup> or 14AWG cable)

### b. Push dim



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).

### 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

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

## 4. Recommended Screwdriver, Wire and Torque Setting

Type	The cover (the blue one)	Screw terminal (FAN±, NTC±, DIM±)	Push terminal (ACL/N, PUSH, DA±, 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)

## 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-40TW	15	26	27	44

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

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