



Features

- Universal AC input: 100 ~ 240 Vac.
- Output voltage and current level adjustable by variable resistor.
- Built-in active PFC function.
- Protections: Short circuit / Over current / Over voltage / Over temperature.
- Built-in DALI interface dimming function.
- Built-in PIR interface and offered auto dimming function.
- Suitable for intelligent LED lighting control system.
- High efficiency up to 89%.
- Class II power unit.
- Built-in fan power (12V/30mA) auxiliary output.
- Fully isolated plastic case with terminal block style of I/O.
- No load power consumption <1W.
- Independence LED Controlgear
- 2 year warranty.

Wiring

- Housing with cable clamp for remote installation.
- Use wires with an adequate cross-section (see 7).
- Use suitable mounting tools to do the wiring and mounting (see 7).

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

- Please do not install LED power supplies in places with high ambient temperature or close to fire source. Please refer to the specifications about the maximum ambient temperature limitations.
- Output current and output wattage must not exceed the rated values on the specifications.
- The controlgear has mains-connected windings. Double or reinforced insulation shall be kept from input/output terminals to user accessible part during the final system assembly.
- The controlgear does not rely upon the luminaire enclosure for protection against accidental contact with live parts.
- Installation must be performed by skilled technicians who are informed about the standards and technical requirements of the appliance and its proper installation.

Settings and connections

1. Select the correct model

Connect to the equipment according to the input rating (I/P: 100-240Vac, 50/60Hz, 0.4-0.8A).

DDL-45(CE) Type

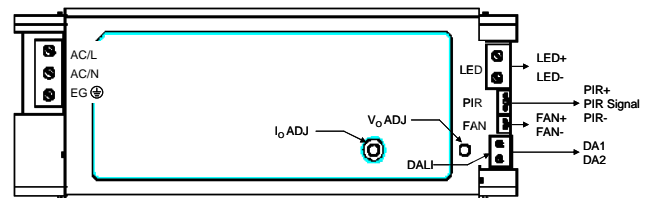
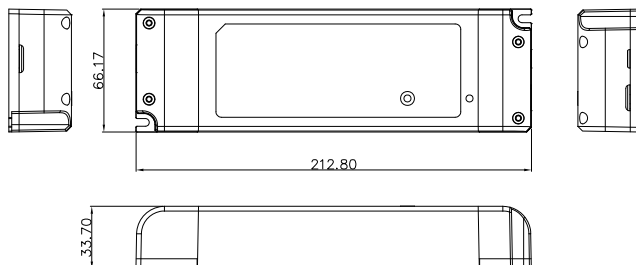
Model	Output rating
DDL-45-20-CE	20Vdc, 2.25A / 12Vdc, 0.05A
DDL-45-24-CE	24Vdc, 1.87A / 12Vdc, 0.05A
DDL-45-27-CE	27Vdc, 1.66A / 12Vdc, 0.05A
DDL-45-36-CE	36Vdc, 1.25A / 12Vdc, 0.05A
DDL-45-40-CE	40Vdc, 1.12A / 12Vdc, 0.05A
DDL-45-48-CE	48Vdc, 0.93A / 12Vdc, 0.05A

DDL-60(CE) Type

Model	Output rating
DDL-60-20-CE	20Vdc, 3.0A / 12Vdc, 0.05A
DDL-60-24-CE	24Vdc, 2.5A / 12Vdc, 0.05A
DDL-60-27-CE	27Vdc, 2.22A / 12Vdc, 0.05A
DDL-60-36-CE	36Vdc, 1.66A / 12Vdc, 0.05A
DDL-60-40-CE	40Vdc, 1.5A / 12Vdc, 0.05A
DDL-60-48-CE	48Vdc, 1.25A / 12Vdc, 0.05A

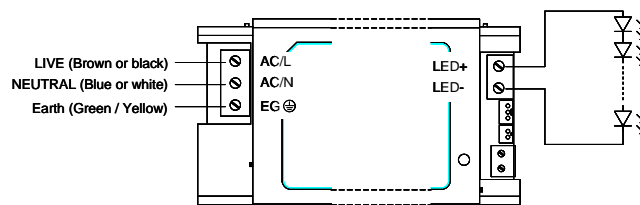
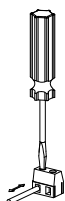
2. Terminal blocks assignment for DDL-45(CE), DDL-60(CE)

(Unit: mm)

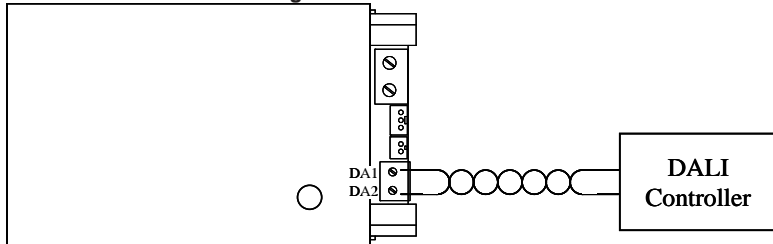


3. Connection of LED Lamps

Rotate "screw terminals" by a slotted screwdriver to insert or remove the cable.



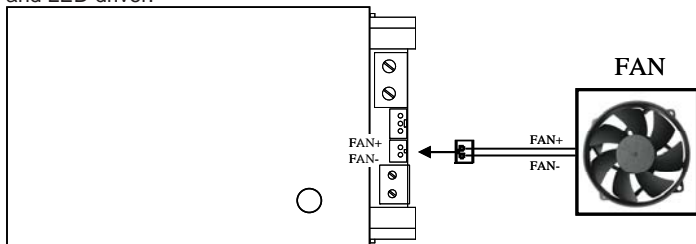
4. Connection of DALI Dimming Function



- Note: 1. Maximum number of the DALI device up to 64pcs for each loop.
 2. Maximum DALI cable length is 300m (based on a 1.5mm² or 14AWG cable).

5. Fan Connection (OPTION)

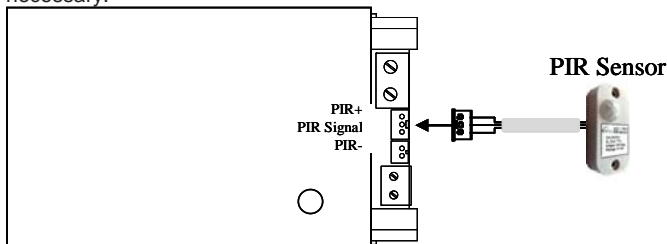
The specification of fan power is 12V/30mA. By using the fan, it can reduce the operation temperature and increase life span of LED lamp and LED driver.



Warning: The short of fan terminals will cause the damage of LED driver.

6. Connection of PIR Auto Dimming Function (OPTION)

By using a PIR detector, smart lighting control can be achieved automatically based on the actual condition and central control host is not necessary.



Warning: The short of PIR terminals will cause the damage of LED driver.

7. Recommended Screwdriver, Wire and Torque Setting

Type	The cover (the orange one)	Screw terminal 1 (AC L/N, EG, LED±)	Screw terminal 2 (DA1, DA2)
Solid wire	----	φ 1.024 – φ 1.829mm	φ 0.404 – φ 1.024mm
Stranded wire	----	0.75 - 2.5mm ²	0.15 - 0.75mm ²
American wire gauge	----	12 - 18AWG	18 – 26AWG
Wire stripping length	----	10mm (0.39")	7mm (0.27")
Screwdriver	6 mm Philips	6 mm Philips	3 mm Philips
Recommended tightening torque	4.6 kfg-cm (4 lb-in)	4.03 kfg-cm (3.5 lb-in)	2.88 kfg-cm (2.5 lb-in)

- Mating housing for PIR connectors: JST B3B-PH or equivalent.
- Mating housing for FAN connectors: JST B2B-PH or equivalent.

Notices

1. The subject models are SELV and for LED general luminaire used.
2. The equipment output is available in constant voltage mode.
3. The equipment is in compliance with: IEC/EN 61347-1 and IEC/EN 61347-2-13
4. Equipment design as class I equipment.
5. Temperature ambient : ta=40°C; tc=80°C

Note:

tc= Highest permissible temperature which may occur on the outer surface.

ta= Rated maximum ambient temperature.

6. Safety isolating/short-circuit proof control gear
7. Independent lamp control gear.