DMX-25-180-700-F1P1

LED Dimming Driver

- Dimming interface: DMX512/RDM, Push DIM.
- With the RDM remote device management protocol.
- Supports DMX512 signal bi-directional communication.
- PWM digital dimming, no alter LED color rendering index.
- Dimming range: 0~100%, LED start at 0.1% possible.
- Multiple current, wide voltage, compatible with a variety of LED lights.
- Power factor > 0.99, Efficiency > 85%
- Short circuit / Over-heat / Over load protection.
- Class 2 power supply. Full protective plastic housing.
- Compliant with Safety Extra Low Voltage standard.
- Suitable for indoor environments.

**Dimming Interface:** DMX512/RDM, Push DIM

**Input Voltage Range:** 100-240Vac ±10%

**Frequency:** 50/60Hz

**Input Current:** 115Vac <= 0.28A, 230Vac <= 0.15A

**Power Factor:** PF > 0.99/115Vac , PF > 0.95/230Vac, at full load

**Efficiency:** ≥ 85%

**Inrush Current (typ.):** Cold start 20A at 230Vac

**Leakage Current:** < 0.5mA/230Vac

**Output Voltage Range:** 3-54Vdc

**Output Power Range:** 0.54W~25W

**Output Voltage:**
- 180mA: 3.5V
- 250mA: 3.5V
- 350mA: 3.5V
- 400mA: 3.5V
- 500mA: 3.5V
- 550mA: 3.5V
- 600mA: 3.5V
- 700mA: 3.5V

**Output Current:**
- 0.5W-9.7W
- 0.8W-13.5W
- 1.1W-18.9W
- 1.2W-21.6W
- 1.5W-25W
- 1.7W-25.3W
- 1.8W-25.2W
- 2.1W-25.2W

**Protection**

- **Over-heat Protection:** Shut down the output when PCB temp. > 110°C, auto recovers when temp. back to normal.
- **Over Load Protection:** When O/P voltage exceed its range, O/P current declines, auto recovers when the load is reduced.
- **Short Circuit Protection:** Shut down automatically if short circuit occurs, auto recovers after faulty condition is removed.

**Others**

- **Dimension:** 175×44×30mm (L×W×H)
- **Packing:** 178×48×33mm (L×W×H)
- **Weight (G.W.):** 160g±10g

**Dimensions**

![Diagram of LED Dimming Driver Dimensions]

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0.54~25W 180~700mA 3~54Vdc
Connections

DMX/RDM Connection

Push DIM Connection

The dimming interface priority: First DMX/RDM, next Push DIM.

Push Dimming

- On/off control: Short press.
- Stepless dimming: Long press.
- With every other long press, the light level goes to the opposite direction.
- Dimming memory: Brightness will be the same as previously adjusted when turning off and on again.

RDM Mode: The dip switch 1-9 are OFF.

DMX Address Setting:

E.g.1: Set Initial Address To 32.
E.g.2: Set Initial Address To 37.

DMX address value = the total value of [1-9]
To get the place value when in “on” position,

LED Current Selection

Quick options: DIP switch for 8 optional currents’ quick selection (see the table below).

Advanced options: Dial DIP switch down, connect ISET port with resistors of different values to set up any current from 180mA to 700mA (specific resistor values refer to the table).

Connecting ISET with resistors can obtain the following typical currents.

E.g. LED 3.2V/pcs: 3-54V can power 1-16pcs LEDs in series, 3-36V can power 1-11pcs LEDs, the max quantity of LEDs in series will be subject to the actual voltage of LED.

After current setting by DIP switch, power off and then power on to make the new current effective.

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Update Time: 2016.10.17