# TD-10-MR16





# LED Intelligent Driver

- Dimming interface: Triac/ELV
- Apply to leading edge / trailing edge Triac dimmers and dimming system.
- . Built-in singlechip, dimming curve and smoothing time can be customized.
- Dimming range: 0~100%, LED start at 1% possible.
- Over load / Over-heat protection, recover automatically.
- Class 2 power supply. Full protective plastic housing.
- Compliant with Safety Extra Low Voltage standard.
- $\bullet$  Suitable for internal lights application for  $\mathbb{I}/\mathbb{I}/\mathbb{I}\mathbb{I}$  .

# O-10W 12Vdc Dimmable: 1%-100% Special use for MR16 lamp.

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RoHS

### Main Characteristics

Dimming Interface:Triac/ELVInput Voltage:200-240VacFrequency:50/60HzInput Current:230Vac≤0.08A

Power Factor: PF>0.8/230Vac (at full load)

Efficiency: >75%

Inrush Current(typ.): Cold start 3A at 230Vac

Anti Surge: L-N: 0.5kV
Leakage Current: <0.5mA/230Vac
Output Current: Max. 0.85A
Output Voltage: 12Vdc

Operating Voltage: 12Vdc ± 0.5Vdc

Ripple & Noise:  $\leq$  2.5V

Output Power: Max. 10W

Output Power Range:  $0 \sim$  10W

Dimming Range: 0~100%, dimming depth: 1% (depending on MR16).

Working Temperature:: ta:  $-20 \sim 50^{\circ}\text{C}$  tc:  $85^{\circ}\text{C}$  Working Humidity:  $20 \sim 95^{\circ}\text{RH}$ , non-condensing Storage Temp., Humidity:  $-40 \sim 80^{\circ}\text{C}$ ,  $10 \sim 95^{\circ}\text{RH}$  Temp. Coefficient:  $\pm 0.03\%/^{\circ}\text{C}[0-50^{\circ}\text{C}]$ 

Vibration: 10~500Hz, 2G 12min./1cycle, period for 72min. each along X, Y, Z axes

## **Protection**

Over-heat Protection: Intelligently adjusting or turning off the output

current if the PCB temperature  $\geq 110^{\circ}\text{C}$ . And the output current will be restored automatically when the temperature comes normal.

Over Load Protection: Startup protection and automatic recovery if

load power exceeds standard.

# Safety & EMC

Withstand Voltage: I/P-0/P: 3750Vac;

EMC Emission: EN55015, EN61000-3-2 Class C, IEC61000-3-3

EMC Immunity: EN61000-4-2,3,4,5,6,8,11 EN61547

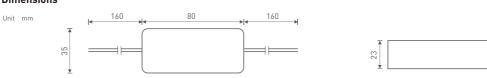
### **Others**

 Dimension:
 80×35×23mm(L×W×H)

 Packing:
 93×43×27mm(L×W×H)

Weight(G.W.): 75g±10g

### Dimensions



# Wiring diagram

