



24Vdc

## LED Intelligent Driver

- Dimming interface: Triac/ELV, Push DIM
- Apply to leading edge and trailing edge TRIAC dimmers.
- Built-in high performance MCU, dimming curve can be customized.
- PWM digital dimming, no alter LED color temperature.
- Dimming range: Max. 0.1~100%.
- Efficiency > 87%
- 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

















Dimmable: 0.1%-100%

36W



1.5A















#### **Main Characteristics**

Dimming Interface: Triac/ELV, Push DIM Input Voltage Range: 200-240Vac ±10%

Frequency: 50/60Hz Input Current: 230Vac≤0.4A > 87% Efficiency:

Inrush Current(typ.): Cold start 40A at 230Vac

Control Surge Capability: L-N: 1kV Leakage Current: < 0.5mA/230Vac Output Current: Max. 1.5A

Output Voltage: 2/Vdc Output Voltage Range: 24Vdc ±0.5Vdc Ripple & Noise: ≤120mV

Output Power: Max. 36W Output Power Range: 1~36W Overload Power Limitation: ≥102%~125% 200Hz-500Hz PWM Frequency: Dimming Range: Max. 0.1~100%.

Working Temperature.: tc: 70°C ta: -30°C ~ 55°C Working Humidity: 20 ~ 95%RH, non-condensing Storage Temp., Humidity: -40 ~ 80°C. 10~95%RH Temp. Coefficient: ±0.03%/°C(0-50°C)

Vihration. 10~500Hz, 2G 12min./1cycle, period

for 72min. each along X, Y, Z axes

\* The dimming range parameters adopted LUTRON® dimming system as testing standards. The parameters may differ by using Triac/ELV dimming systems of different brands. We can customize program for clients' high requirements.

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#### **Protection**

Over-heat Protection: Shut down the output when PCB temp.≥110°C,

auto recovers when temp. back to normal.

Over Load Protection: Shut down the output when Current Load≥

102%~125%, auto recovers after faulty condition

is removed

Short Circuit Protection: Shut down automatically if short circuit occurs,

auto recovers after faulty condition is removed.

### Safety & EMC

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

I/P-0/P: 100M Ω/500VDC/25°C/70%RH Isolation Resistance: Safety Standards: IEC/EN61347-1, IEC/EN61347-2-13

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

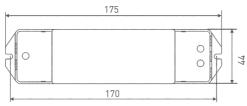
EMC Immunity: EN61000-4-2,3,4,5,6,8,11 EN61547

#### Others

Dimension: 175×44×30mm(L×W×H) Packing: 178×48×33mm(L×W×H)

Weight(G.W.): 185q±10q

#### Dimensions

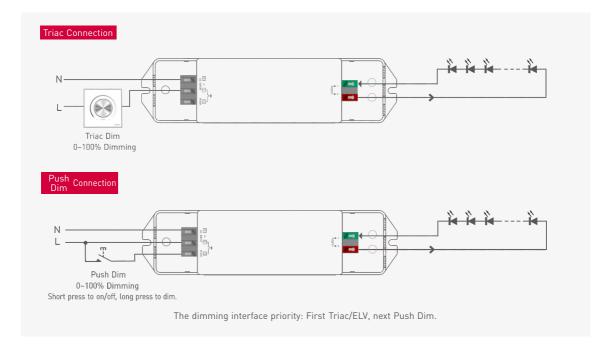




# Connections







## Selecting between ordinary dimmer and dimming system

Ordinary dimmer and dimming system have different dimming precision, precision of dimming system is higher. To meet customers' requirements on perfect dimming effects, we LTECH designed two programme options.

Method: Turn off the power and then remove the housing of the LED driver to find right component on the PCB.

Shift system by selecting different contact pin (For installation professionals use only). Factory default as common (For ordinary dimmer).





Dimming system

#### **Push Dimming**



Reset Switch

- 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.