



## 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 rendering index.
- Dimming range: 0~100%, LED start at 0.1% possible.
- Efficiency > 85%-
- Short circuit / Over-heat / Over load / Over voltage protection.
- Compliant with Safety Extra Low Voltage standard.
- Suitable for internal lights application for I/II/III.



































#### Main Characteristics

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

Frequency: 50/60Hz Input Current: 230Vac≤1.4A Efficiency:

Inrush Current(typ.): Cold start 50A at 230Vac Control Surge Capability: L-N: 1kV L/N-G: 2kV

Leakage Current: I/P-O/P: <0.5mA/230Vac, I/P-GND: <0.75mA/230Vac

Output Current: Max. 12.5A Output Voltage: 12Vdc

Output Voltage Range: 12Vdc ±0.5Vdc Ripple & Noise: ≤200mV Max. 150W Output Power: 1~150W Output Power Range: Overload Power Limitation: ≥102%~125% PWM Frequency: ≤4KHz

Dimming Range: 0~100%, Max. 0.1% dimming depth ta: -20°C ~ 45°C tc: 90°C Working Temperature.: 20 ~ 95%RH, non-condensing Working Humidity: Storage Temp., Humidity: -40 ~ 80°C, 10~95%RH

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

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

±0.03%/°C(0-50°C)

## **Protection**

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

auto recovers when temp. back to normal.

Over Voltage Protection: Shut down the output when Non-load Voltage

≥13~18V, re-power on to recover after fault condition is removed.

Over Load Protection: Power Load≥102%~125%, start hiccup mode,

auto recovers when the load is reduced.

Short Circuit Protection: Shut down automatically if short circuit occurs, auto recovers after faulty condition is removed.

#### Safety & EMC

Temp. Coefficient:

Withstand Voltage: I/P-0/P: 3750Vac I/P-GND: 1800Vac Isolation Resistance: I/P-0/P: 100MΩ/500VDC/25°C/70%RH Safety Standards: IEC/EN61347-1. IEC/EN61347-2-13

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

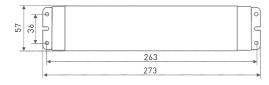
EMC Immunity: EN61000-4-2,3,4,5,6,8,11, EN61547

#### Others 6 8 1

Dimension-273×57×37mm(L×W×H) Packing: 278×63×43mm(L×W×H)

Weight(G.W.): 710g±10g

#### **Dimensions**

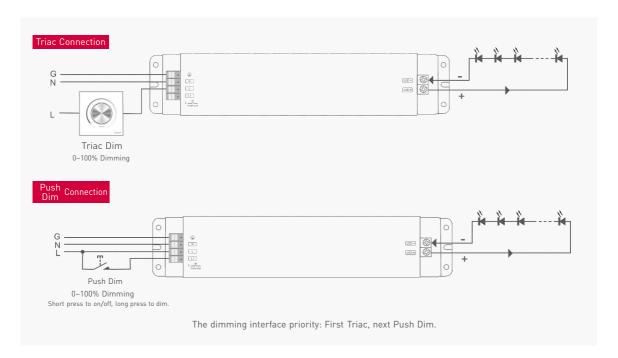




# Connections







#### 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).

# Common Ordinary dimmer



### **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.

Update Time: 2018.03.08\_A3