

LED Intelligent Driver

150W 12.5A 12Vdc

- Dimming interface: Triac/ELV, Push DIM.
- Apply to leading edge and trailing edge Triac dimmers.
- Build-in high performance MCU, dimming curve can be customized.
- PWM digital dimming, no alter LED color rendering index.
- Dimming range: Max. 0.1~100%.
- Efficiency > 85%.
- Short circuit / Over-heat / Over load / Over voltage protection.
- Compliant with Safety Extra Low Voltage standard.
- Suitable for indoor environments.



Dimmable:
.....
0.1%-100%

SELV

Triac
Push DIM

PWM
Digital
Dimming

$\eta > 85\%$
Efficiency

Over-heat
Protection

Short Circuit
Protection

Over Load
Protection

Over voltage
protection

Main Characteristics

Dimming Interface:	Triac/ELV, Push DIM	Ripple & Noise:	≤200mV
Input Voltage Range:	200-240Vac ±10%	Output Power:	Max. 150W
Frequency:	50/60Hz	Output Power Range:	1~150W
Input Current:	230Vac≤1.4A	Overload Power Limitation:	≥102%~125%
Efficiency:	>85%	PWM Frequency:	2KHz-4KHz
Inrush Current(typ.):	Cold start 50A at 230Vac	Dimming Range:	Max. 0.1~100%.
Control surge capability:	L-N: 1kV, L/N-G: 2kV	Working Temperature:.	tc: 90°C ta: -30°C ~ 60°C
Leakage Current:	I/P-O/P: <0.5mA/230Vac, I/P-GND: <0.75mA/230Vac	Working Humidity:	20 ~ 95%RH, non-condensing
Output Current:	Max. 12.5A	Storage Temp., Humidity:	-40 ~ 80°C, 10~95%RH
Output Voltage:	12Vdc	Temp. Coefficient:	±0.03%/°C(0-50°C)
Output Voltage Range:	12Vdc ±0.5Vdc	Vibration:	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.
Attn: LUTRON® is registered trademarks of Lutron Electronics Co., Inc. registered in the U.S. and other countries.

Protection

- Over Temp. Protection: Shut down the output when PCB temp. ≥110°C, auto recovers when temp. back to normal.
- Over Voltage Protection: No-load voltage ≥13~18V, re-power on to recover after fault condition is removed.
- Over Load Protection: Current load ≥102%~125%, recovers automatically after fault condition is removed.
- Short Circuit Protection: Shut down automatically if short circuit occurs, auto recovers after faultly condition is removed.

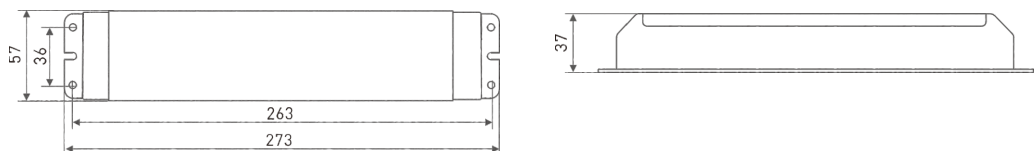
Safety & EMC

- Withstand Voltage: I/P-O/P: 3750Vac I/P-GND: 1800Vac
- Isolation Resistance: I/P-O/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

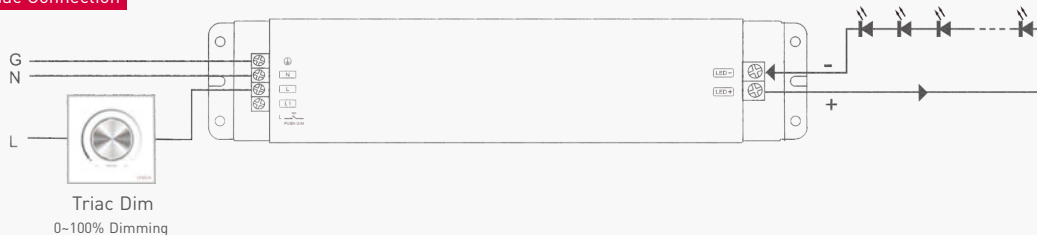
Others

- Dimension: 273x57x37mm(LxWxH)
- Packing: 285x63x43mm(LxWxH)
- Weight(G.W.): 790g±10g

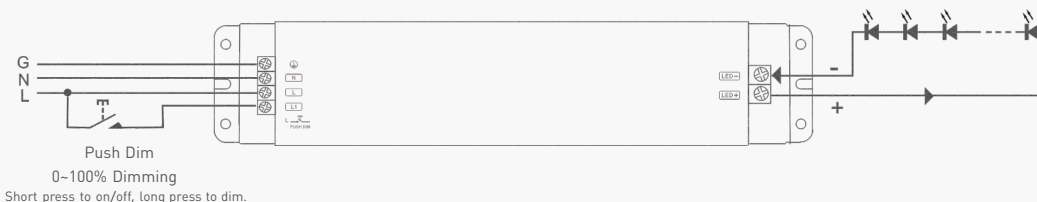
Dimensions



Triac Connection



Push Dim Connection



The dimming interface priority: First Triac, next Push Dim.

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

System



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.