

LED Intelligent Driver (DIN Rail)

50W 4.2A 12Vdc

- 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%.
- Short circuit / Over-heat / Over load / Over voltage protection.
- Class 2 power supply. Full protective plastic housing.
- Compliant with Safety Extra Low Voltage standard.
- Suitable for indoor environments.



Dimmable:
0.1%-100%



Main Characteristics

Dimming Interface:	Triac/ELV, Push Dim	Ripple & Noise:	≤200mV
Input Voltage Range:	200-240Vac ±10%	Output Power:	Max. 50W
Frequency:	50/60Hz	Output Power Range:	1~50W
Input Current:	230Vac≤0.45A	Overload Power Limitation:	≥102%~125%
Efficiency:	>84%	PWM Frequency:	200Hz~500Hz
Inrush Current(typ.):	Cold start 40A at 230Vac	Dimming Range:	Max. 0.1~100%
Control Surge Capability:	L-N: 1kV	Working Temperature.:	tc: 70°C ta: -30°C ~ 55°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. 4.2A	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-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:** 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.

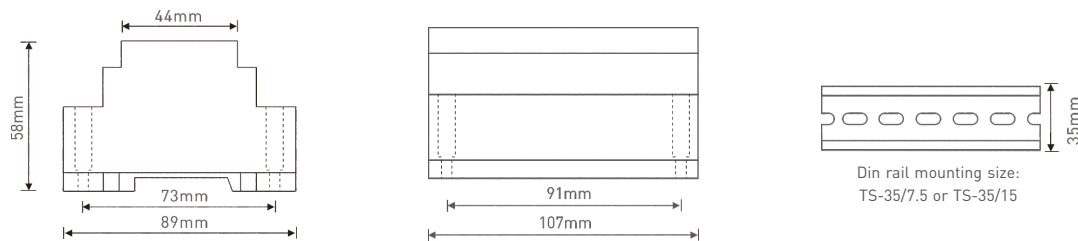
Safety & EMC

- Withstand Voltage:** I/P-O/P: 3750Vac
- 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

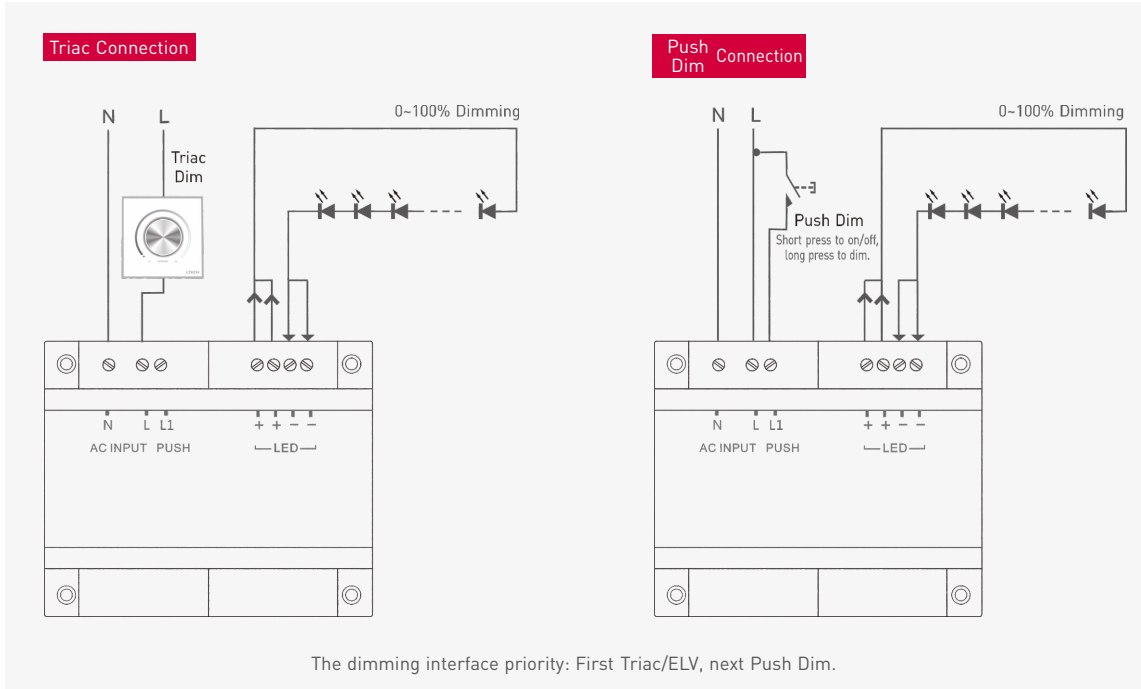
Others

- Dimension:** L107×W89×H58mm
- Packing:** L109×W99×H63mm
- Weight[G.W.]:** 260g±10g

Dimensions



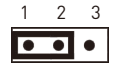
Din rail mounting size:
TS-35/7.5 or TS-35/15



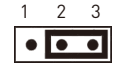
Selecting between ordinary dimmer and dimming system

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 1-2 (For ordinary dimmer).



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.