



LED Intelligent Driver

- Dimming interface: 0-10V (1-10V/PWM/RX), Push Dim
- 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.
- Multi-current & wide voltage, suitable for different power LED.
- Short circuit / Over-heat / Over load / Non-load protection.
- Non-load output voltage OV to prevent damages to LED caused by poor contact.
- Class 2 power supply. Full protective plastic housing.
- Compliant with Safety Extra Low Voltage standard
- Suitable for internal lights application for $\mathbb{I}/\mathbb{I}/\mathbb{I}$



1.5~25W 150~900mA 10~54Vdc

SELV

















0-10V **PUSH DIM**













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



Main Characteristics

Dimming Interface: Current Accuracy: ±5% 0-10V (1-10V/PWM/RX), Push Dim Max. Output Voltage: Input Voltage Range: 58Vdc 100-277Vac ±10% (Max. 90-305Vac) Non-load Output Voltage: UNdc

Frequency: 50/60Hz

0~100%, LED start at 0.1% possible. Input Current: 115Vac≤0.3A, 230Vac≤0.2A, 277Vac≤0.15A Dimming Range:

Power Factor: PF>0.97/115Vac. PF>0.93/230Vac. PF>0.85/277Vac (full load) PWM Frequency: ≤4KHz

THD. Working Temperature: ta: -30°C ~ 55°C tc: 75°C <16%/115Vac, <20%/230Vac, <22%/277Vac, (full load) Efficiency: Working Humidity: 20 ~ 95%RH, non-condensing >85%

Inrush Current(typ.): Cold start 10A at 230Vac (twidth=75µs measured at 50% Ipeak) Storage Temp., Humidity: -40 ~ 80°C, 10~95%RH

Temp. Coefficient: ±0.03%/°C(0-50°C) Control Surge Capability: L-N: 1kV

Leakage Current: <0.5mA/230Vac Vibration: 10~500Hz, 2G 12min./1cycle, period

Operating Voltage: 10-54Vdc

Output Power Range: 1.5W~25W

Output Current: 150mA 250mA 300mA 350mA 500mA 600mA 700mA 900mA Output Voltage: 10-54V 10-54V 10-54V 10-54V 10-50V 10-42V 10-36V 10-28V Output Power: 1.5W-8.1W 2.5W-13.5W 3W-16.2W 3.5W-18.9W 5W-25W 6-25.2W 7-25.2W 9-25.2W

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 rated power≥102% ~125% auto recovers when the load is reduced

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

Non-load Protection: Shut down the output if no load, auto recovers

when load back to normal

Safety & EMC

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

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

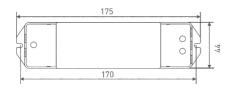
EMC Immunity: EN61000-4-2,3,4,5,6,8,11 EN61547

Others

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

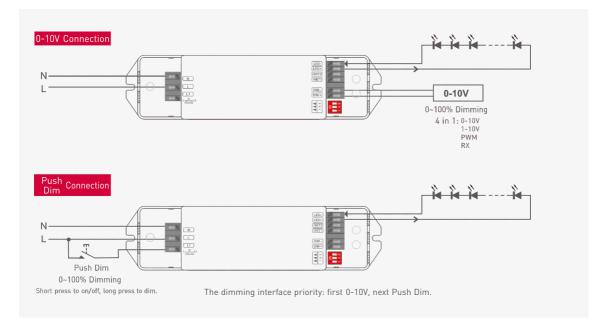
Weight(G.W.): 175g±10g

Dimensions









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.

LED Current Selection

Quick options: DIP switch for 8 optional currents' quick selection(see the table below).

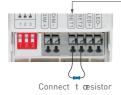


TTT	117	TIT	TTT	TII	TIT	TTL	TTT	T	T
150mA	250mA	300mA	350mA	500mA	600mA	700mA	900mA	ON	OFF
10-54V	10-54V	10-54V	10-54V	10-50V	10-42V	10-36V	10-28V	OIN	011

* After current setting by DIP switch, power off and then power on to make the new current effective.

🗱 E.g. LED 3.2V/pcs: 10-54V can power 3-16pcs LEDs in series, 10-28V can power 3-8pcs LEDs, the max quantity of LEDs in series will be subject to the actual voltage of LED.

Advanced options: connect ISET port with resistors of different values to set up any current from 150mA to 900mA. (specific resistor values refer to the table).



Current (mA) 20 0mA 250mA 300mA 350mA 400mA 450mA 500mA 550mA 600mA 65	
	0mA
Resistor $K\Omega$) 34 $K\Omega$ 26.93 $K\Omega$ 22.3 $K\Omega$ 18.98 $K\Omega$ 15.93 $K\Omega$ 13.31 $K\Omega$ 11.45 $K\Omega$ 9.53 $K\Omega$ 8.23 $K\Omega$ 6.	'2KΩ

Current (nA)
700mA
750mA
800mA
850mA
900mA

Resistor (ΚΩ) 5.62 ΚΩ 4.58 ΚΩ 3.64 ΚΩ 2.81 ΚΩ