



# 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.
- Multiple current, wide voltage, compatible with a variety of LED lights.
- Non-load output voltage 0V to prevent damages to LED caused by poor contact.
- Short circuit / Over-heat / Over load / Non-load protection.
- Class 2 power supply. Full protective plastic housing.
- · Compliant with Safety Extra Low Voltage standard.

· Suitable for indoor environments.













1-10V

PWM

Push DIM





Dimmable: 0.1%-100%





0-10V PUSH DIM











5 in 1 dimming



2~36W 200~1200mA 10~54Vdc

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#### **Main Characteristics**

Dimming Interface: 0-10V (1-10V/PWM/RX), Push Dim

Input Voltage Range: 200-240Vac ±10%

Frequency: 50/60Hz

 Input Current:
 0.25A@180Vac, 0.20A@230Vac

 Power Factor:
 PF>0.95/230Vac, at full load

 THD:
 ≤15% at 230Vac, at full load

Efficiency: >87%

Inrush Current(typ.): Cold start 25A at 230Vac

Control Surge Capability: L-N: 1kV
Leakage Current: <0.5mA/230Vac

Operating Voltage: 10-54Vdc

Output Power Range: 2W~36W

Current Accuracy: ±3%

Max Output Voltage: Max. 58Vdc

Non-load Output Voltage: 0Vdc

Dimming Range: 0~100%, LED start at 0.1% possible.

PWM Frequency:  $\leq 4 \text{KHz}$ 

Working Temperature: tc:  $80^{\circ}$ C ta:  $-30^{\circ}$ C  $\sim 55^{\circ}$ C Working Humidity:  $20 \sim 95^{\circ}$ RH, non-condensing Storage Temp., Humidity:  $-40 \sim 80^{\circ}$ C,  $10-95^{\circ}$ RH Temp. Coefficient:  $\pm 0.03\%/^{\circ}$ C( $0-50^{\circ}$ C)

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

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

Output Current: 200mA 350mA 500mA 600mA 700mA 900mA 1050mA 1200mA Output Voltage: 10-54V 10-54V 10-54V 10-52V 10-35V 10-30V Output Power: 2W-10.8W 3.5W-18.9W 5W-27W 6W-32.4W 7W-36.4W 9-36W 10.5-36.75W 12-36W

## Protection

Over-heat Protection: Shut down the output when PCB temp. $\geqslant$ 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.

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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:  $100M\Omega/500VDC/25^{\circ}C/70\%RH$ 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**

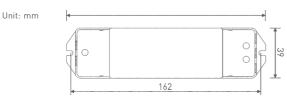
 Dimension:
 167×39×30mm(L×W×H)

 Packing:
 168×41×32mm(L×W×H)

Weight(G.W.): 165g±10g

#### **Dimensions**

Non-load Protection:

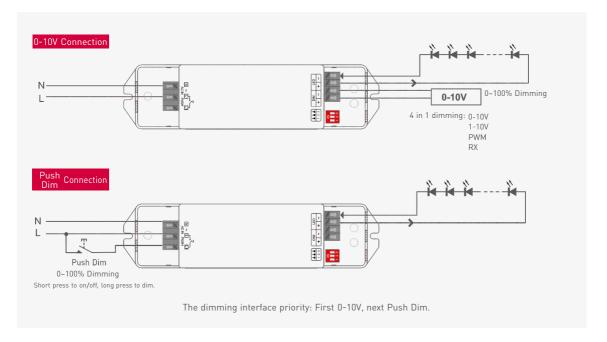




# Connections







# **Push Dimming**

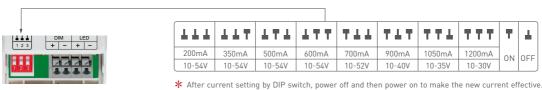


Reset Switch

- 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).



🛊 E.g. LED 3.2V/pcs: 10-54V can power 3-16pcs LEDs in series, 10-30V can power 3-9pcs LEDs, the max quantity of LEDs in series will be subject to the actual voltage of LED.