



## LED Intelligent Driver

5W~50W 500~1750mA

- 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.
- Power factor > 0.99, Efficiency > 85%.
- Short circuit / Over-heat / Over 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 indoor environments











N-10V 1-10V

PWM

Push DIM

RX



5 in 1 dimming



Dimmable: 0.1%-100%





0-10V **PUSH DIM** 









PWM Frequency:







#### Main Characteristics

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

Input Voltage Range: 100-240Vac ±10%

Frequency: 50/60Hz

Input Current: 115Vac≤0.6A, 230Vac≤0.3A

Power Factor: PF>0.99/115Vac, PF>0.95/230Vac, at full load

≤10% at 115Vac, ≤20% at 230Vac, at full load THD.

Efficiency: >85%

Inrush Current(typ.): Cold start 50A at 230Vac

500mA

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

Operating Voltage: 10-54Vdc

Output Power Range: 5W~50W

Output Voltage: 10-54V 10-54V 10-54V 10-48V 10-42V Output Power: 7-37.8W 5-27W 9-48.6W 10.5-50.4W 12-50.4W

700mA

Current Accuracy: ±3% Max. Output Voltage: 58Vdc No Load Output Voltage: UNdo

0~100%, LED start at 0.1% possible. Dimming Range: ≤4KHz

Working Temperature: tc: 80°C ta: -30°C ~ 55°C Working Humidity: 20 ~ 95%RH, non-condensing

Storage Temp., Humidity: -40 ~ 80°C, 10~95%RH Temp. Coefficient: ±0.03%/°C(0-50°C)

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

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

1450mA 1600mA 1750mA 10-34V 10-32V 10-29V 14.5-49.3W 16-51.2W 17.5-50.8W

## Protection

Output Current:

Over-heat Protection: Shut down the output when PCB temp. ≥110°C, auto recovers when temp. back to normal.

900mA

1050mA

1200mA

Over Load Protection: When O/P voltage exceed its range, O/P current declines, 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. Auto detecting, auto recovers when load back

to normal

## Safety & EMC

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

I/P-O/P: 100MΩ/500VDC/25°C/70%RH Isolation Resistance: Safety Standards: IEC/EN61347-1, IEC/EN61347-2-13

EMC Emission: EN55015, EN61000-3-2 CLASS C. IEC61000-3-3

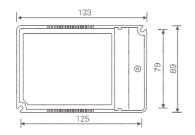
EMC Immunity: EN61000-4-2,3,4,5,6,8,11 EN61547

Others

Dimension: 133×89×30mm(L×W×H) Packing: 135×90×35mm(L×W×H)

Weight(G.W.): 320g±10g

## **Dimensions**

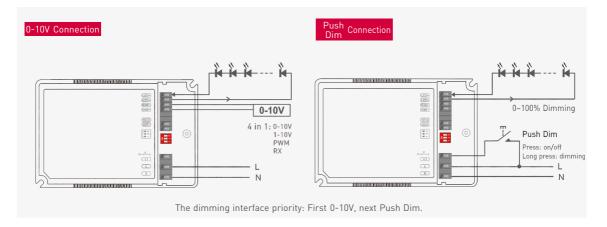




# Connections







#### **Push Dimming**

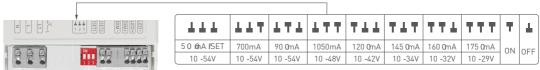


Reset Switch

- 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).



\* 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, 10-29V can power 3-9pcs LEDs, the max quantity of LEDs in series will be subject to the actual voltage of LED.

Advanced options: Dial DIP switch down Land Land Company connect ISET port with resistors of different values to set up any current from 500mA to 1750mA

(specific resistor values refer to the table).



Connect to resistor

Connecting ISET with resistors can obtain the following typical currents.									
Current (mA)	500mA	550mA	600mA	650mA	700mA	750mA	800mA	850mA	900mA
Resistor (K	00	130.08KΩ	83.5 KΩ	60.02 KΩ	46.37KΩ	37.01 KΩ	30.1 KΩ	25.24 KΩ	21.28 KΩ
Current (mA)	950mA	1000mA	1050mA	1100mA	1150mA	1200mA	1250mA	1300mA	1350mA
Resistor (K	18.15 KΩ	15.65 KΩ	13.5 KΩ	11.62 KΩ	10.8 KΩ	8.78 KΩ	7.57 KΩ	6.41 KΩ	5.65 KΩ
Current (mA)	1400mA	1450mA	1500mA	1550mA	1600mA	1650mA	1700mA	1750mA	
Resistor (K	4.81 KΩ	4.07 KΩ	3.4 KΩ	2.68ΚΩ	2.13 KΩ	1.63 KΩ	1.18 KΩ	0 ΚΩ	

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