



# LED Intelligent Driver

• Dimming interface: 1-10V (0-10V,10V PWM,resistor), Push Dim.

- PWM digital dimming, no alter LED color temperature.
- Dimming range: 0~100%, LED start at 0.1% possible.
- Power factor > 0.99, Efficiency > 85%.
- Multiple current, wide voltage, compatible with a variety of LED lights.
- Short circuit / Over-temperature / 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 indoor environments.















5W~50W

±3%

58Vdc

0Vdc



















Output Power Range: Current Accuracy:

Max Output Voltage:

No Load Output Voltage:

Working Temperature:

Storage Temp., Humidity:

Working Humidity:

Temp. Coefficient:

Vibration:





tc: 80°C ta: -30°C ~ 55°C

-40 ~ 80°C, 10~95%RH

±0.03%/°C[0-50°C]

20 ~ 95%RH, non-condensing

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

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

5W~50W 500~1750mA 10~54V



### Main Characteristics

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

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

Input Voltage Range: 100-240Vac ±10%

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

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

Frequency: 50/60Hz Efficiency: ≥85%

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

(twidth =  $75\mu$ s measured at 50% Ipeak)

Leakage Current: <0.5mA/230Vac Operating Voltage: 10-54Vdc

≤10% at 115Vac. ≤20% at 230Vac [full load]

700mA 900mA 1050mA 1200mA 1750mA Output Voltage: 10-54V 10-54V 10-54V 10-48V 10-42V 10-34V 10-32V 10-29V Output Power: 5-27W | 7-37.8W | 9-48.6W | 10.5-50.4W | 12-50.4W | 14.5-49.3W | 16-51.2W | 17.5-50.8W

Output Current:

1450mA 1600mA

#### Protection

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

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

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

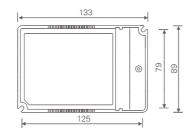
EMC Immunity: EN61000-4-2,3,4,5,6,8,11 EN61547

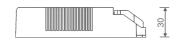
Others

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

Weight(G.W.): 320g±10g

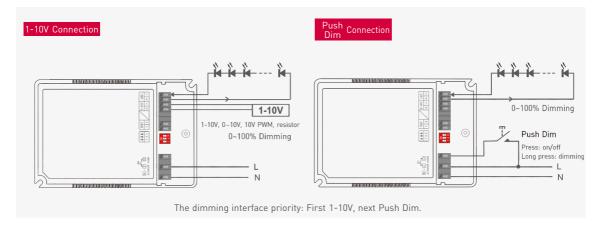
## **Dimensions**











#### **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).

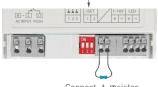


<b>TTT</b>	117	171	<b>177</b>	TIL	TAT	TTL	TTT	Ŧ	T
50 Mon A VSET	700mA	90 0mA	1050mA	120 <b>0</b> mA	145 0mA	160 <b>0</b> mA	175 0mA	ON	OFF
10 -54V	10 -54V	10 -54V	10 -48V	10 -42V	10 -34V	10 -32V	10 -29V	OIN	UFF

\* 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 🛦 🛦 🛦 , connect ISET port with resistors of different values to set up any current from 500mA to 1750mA (specific resistor values refer to the table).

2



Connect t cesistor

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 ΚΩ	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 (nA)	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		