LED Intelligent Driver

0.3~15W   100~400mA   3~54Vdc

- 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 > 83%
- Short circuit / Over-heat / Over load protection.
- Class 2 power supply. Full protective plastic housing.
- Compliant with Safety Extra Low Voltage standard.
- Suitable for indoor environments.

5 in 1 dimming
0-10V
1-10V
PWM
RX
Push DIM

Dimmable:
0.1%-100%

SELV

| 0-10V PUSH DIM | PWM Digital Dimming | PF >0.99 | >83% Efficiency | Over-heat Protection | Short Circuit Protection | Over Load Protection | ON 1 2 3 Multiple Current |

Main Characteristics

Dimming Interface:	0-10V (1-10V/PWM/RX), Push Dim	Output Power Range:	0.3W~15W
Input Voltage Range:	100-240Vac ±10%	Current Accuracy:	±3%
Frequency:	50/60Hz	Max. Output Voltage:	58Vdc
Input Current:	115Vac≤0.20A, 230Vac≤0.10A	PWM Frequency:	≤4KHz
Power Factor:	PF>0.99/115Vac , PF>0.95/230Vac （full load)	Dimming Range:	0~100%, LED start at 0.1% possible.
THD:	<12% at 115Vac, <15% at 230Vac （full load)	Working Temperature.:	tc: 75°C ta: -30°C ~ 55°C
Efficiency:	>83%	Working Humidity:	20 ~ 95%RH, non-condensing
Inrush Current(typ.):	Cold start 20A@230Vac	Storage Temp., Humidity:	-40 ~ 80°C, 10~95%RH
Control Surge Capability:	L-N: 1kV	Temp. Coefficient:	±0.03%/°C(0-50°C)
Leakage Current:	<0.5mA/230Vac	Vibration:	10~500Hz, 2G 12min./1cycle, period
Operating Voltage:	3~54Vdc		for 72min. each along X, Y, Z axes

Output Current	100mA	120mA	150mA	200mA	250mA	300mA	350mA	400mA
Output Voltage	3-54V	3-54V	3-54V	3-54V	3-54V	3-50V	3-42V	3-38V
Output Power	0.3-5.4W	0.4-6.5W	0.5-8.1W	0.6-11W	0.8-13.5W	0.9-15W	1.1-15W	1.2-15.2W

Protection

Over-heat Protection: Shut down the output when PCB temp.≥110°C, auto recovers when temperature. 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.
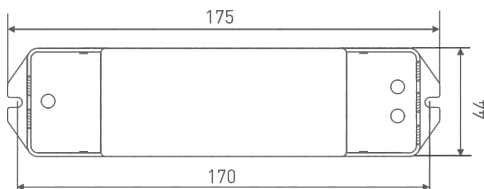
Safety & EMC

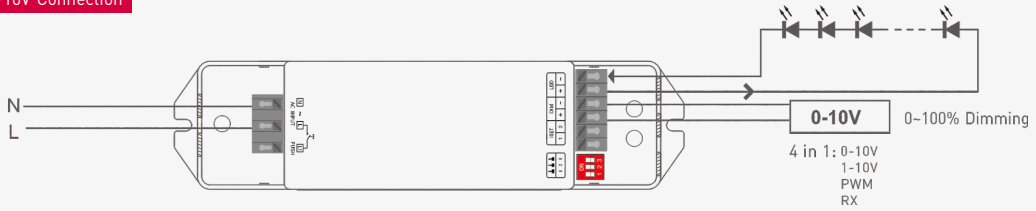|	
Withstand Voltage:	I/P-O/P: 3750Vac
Isolation Resistance:	I/P-O/P: 100MΩ/500VDC/25°C/70%RH
Safety Standards:	IEC/EN61347-1, IEC/EN61347-2-13
EMC Emission:	EN55015, EN61000-3-2 Class C, IEC61000-3-3
EMC Immunity:	EN61000-4-2,3,4,5,6,8,11 EN61547

Others

Dimension:	175×44×30mm(L×W×H)
Packing:	178×48×33mm(L×W×H)
Weight(G.W.):	160g±10g

Dimensions

175
44
170

30

0-10V Connection

N
L

0-10V   0~100% Dimming

4 in 1: 0-10V
1-10V
PWM
RX

Push Dim Connection

N
L

Push Dim
0~100% Dimming
Short press to on/off, long press to dim.
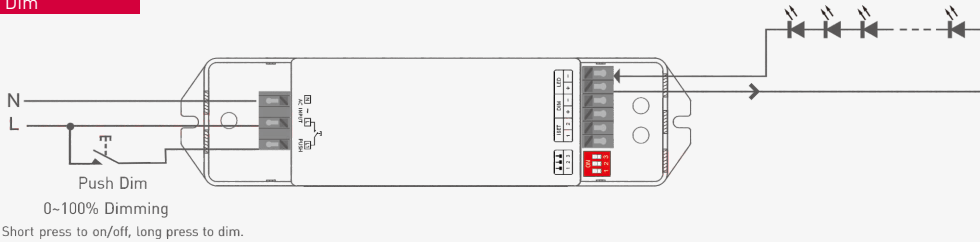
The dimming interface priority: First 0-10V, next Push Dim,

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).

100mA/ISET	120mA	150mA	200mA	250mA	300mA	350mA	400mA	ON	OFF
3-54V	3-54V	3-54V	3-54V	3-54V	3-50V	3-42V	3-38V		

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

✳ E.g. LED 3.2V/pcs: 3-54V can power 1-16pcs LEDs in series, 3-38V can power 1-11pcs 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 100mA to 400mA (specific resistor values refer to the table).

Connect to resistor

Connecting ISET with resistors can obtain the following typical currents.												
Current(mA)	100mA	125mA	150mA	175mA	200mA	225mA	250mA	275mA	300mA	325mA	350mA	375mA	400mA
Resistor(KΩ)	221KΩ	77KΩ	37.15KΩ	25.8KΩ	16.72KΩ	13.7KΩ	9.28KΩ	6.76KΩ	5.94KΩ	3.234KΩ	2.942KΩ	1.127KΩ	0KΩ