

## LED Intelligent Driver

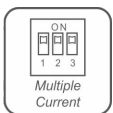
2~36W 200~1200mA 10~54Vdc

- Dimming interface: Triac/ELV.
- Apply to leading edge / trailing edge Triac dimmers and dimming system.
- Built-in high performance MCU, dimming curve can be customized.
- Dimming range: Max. 0.1~100%.
- Power factor > 0.9, Efficiency > 85%
- Multiple current, wide voltage, compatible with a variety of LED lights.
- 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.



Dimmable:  
 .....  
 0.1%-100%

SELV        **CE** **RoHS**  



## Main Characteristics

Dimming Interface:	Triac/ELV
Input Voltage Range:	200-240Vac $\pm 10\%$
Frequency:	50/60Hz
Input Current:	230Vac $\leq 0.21A$
Power Factor:	PF > 0.9/230Vac, at full load
Efficiency:	> 85%
Inrush Current(typ.):	Cold start 50A at 230Vac
Control surge capability:	L-N: 1kV
Leakage Current:	< 0.5mA/230Vac
Operating Voltage:	10-54Vdc
Output Power Range:	2W-36W

Current Accuracy:	$\pm 3\%$
Max Output Voltage:	Max. 58Vdc
Dimming Range:	Max. 0.1~100%.
PWM Frequency:	200~500Hz
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:	$\pm 0.03\%/^{\circ}C(0-50^{\circ}C)$
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	10-54V	10-52V	10-40V	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. $\geq 110^{\circ}C$ , auto recovers when temp. back to normal.
Over Load Protection:	Shut down the output when rated power $\geq 102\%$ ~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.

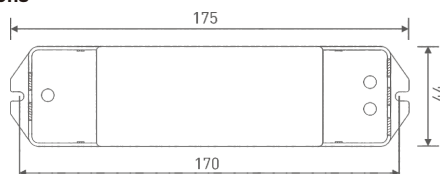
## Safety &amp; EMC

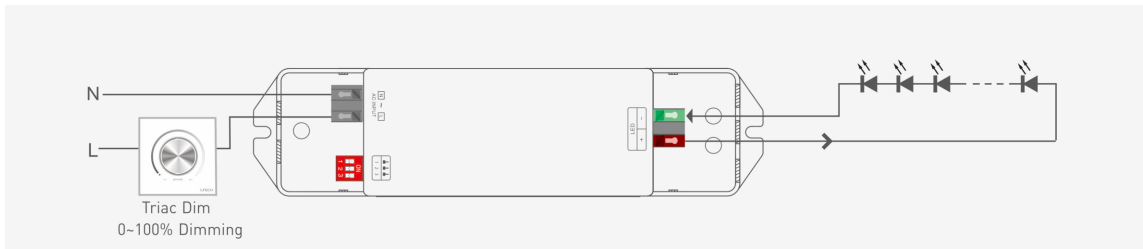
Withstand Voltage:	I/P-O/P: 3750Vac
Isolation Resistance:	I/P-O/P: 100M $\Omega$ /500VDC/25°C/70%RH
Safety Standards:	IEC/EN61347-1, IEC/EN61347-2-13
EMC Emission:	EN55015, EN61000-3-2 Class C, IEC61000-3-3
EMC Immunity:	EN61000-4-2,3,4,5,6,8,11 EN61547

## Others

Dimension:	175x44x30mm(LxWxH)
Packing:	178x48x33mm(LxWxH)
Weight[G.W.]:	165g $\pm 10g$

## Dimensions





## Selecting between ordinary dimmer and dimming system

Ordinary dimmer and dimming system have different dimming precision, precision of dimming system is higher. To meet customers' requirements on perfect dimming effects, we LTECH designed two programme options.

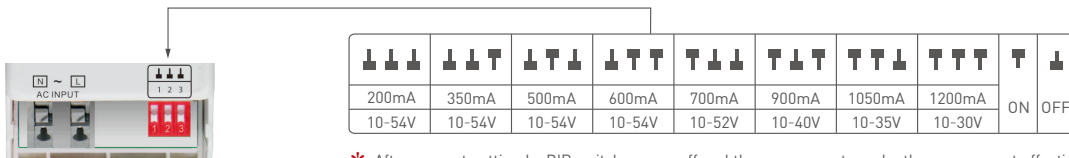


Method: Turn off the power and then remove the housing of the LED driver to find right component on the PCB. Shift system by selecting different contact pin (For installation professionals use only). Factory default as 1-2 (For ordinary dimmer).



## 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, 10-30V can power 3-9pcs LEDs, the max quantity of LEDs in series will be subject to the actual voltage of LED.