

LED Intelligent Driver

1~10W 100~400mA 10~45Vdc

- 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: 0~100%, LED start at 0.1% possible .
- Multi-current & wide voltage, suitable for different power LED.
- Short circuit / Over-heat / Over load protection.
- Class 2 power supply. Full protective plastic housing.
- Compliant with Safety Extra Low Voltage standard.
- Suitable for internal lights application for I/II/III.

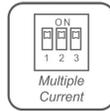


Dimmable:  
0.1%~100%



BIS Certificate No. R-41072265

SELV



Main Characteristics

Dimming Interface: Triac/ELV  
 Input Voltage Range: 200~240Vac  
 Frequency: 50/60Hz  
 Input Current: 230Vac≤0.15A  
 Efficiency: >82%  
 Inrush Current(typ.): Cold start 20A at 230Vac  
 Control Surge Capability: L-N: 1kV  
 Leakage Current: <0.5mA/230Vac  
 Operating Voltage: 10~45Vdc  
 Output Power: Max. 10W  
 Ripple & Noise: <100mV

Output LF current ripple(<120Hz): <1.5%  
 Current Accuracy: ±3%  
 No Load Output Voltage: 48Vdc  
 PWM Frequency: 200Hz~500Hz  
 Dimming Range: 0~100%, LED start at 0.1% possible.  
 Working Temperature.: ta: -30 ~ 55°C tc: 80°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

Output Current :	100mA	150mA	200mA	250mA	300mA	350mA	400mA
Output Voltage :	10~45V	10~45V	10~45V	10~40V	10~33V	10~28V	10~25V
Output Power :	1~4.5W	1.5~6.75W	2~9W	2.5~10W	3~9.9W	3.5~9.8W	4~10W

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.

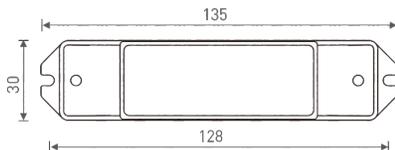
Safety & EMC

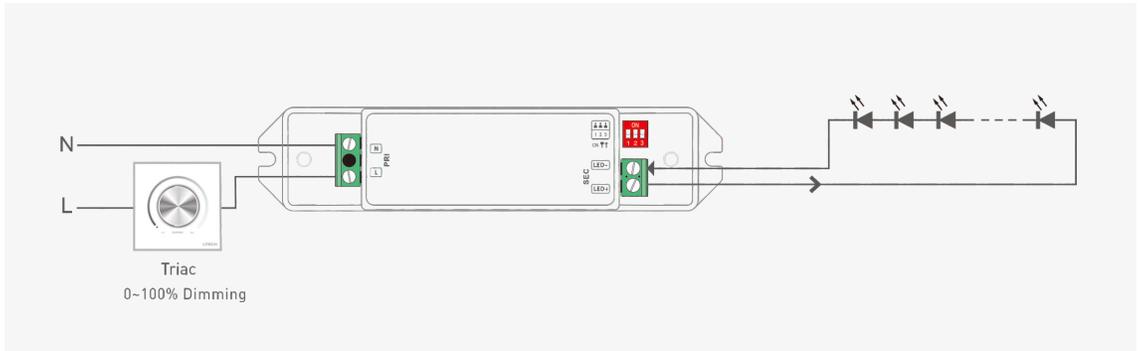
Withstand Voltage: I/P-O/P: 3750Vac;  
 Isolation Resistance: I/P-O/P: 100MΩ/500VDC/25°C/70%RH  
 Safety Standards: IEC/EN61347-1, IEC/EN61347-2-13  
 EMC Emission: EN55015, EN61000-3-2 Class C, IEC61000-3-3  
 EMC Immunity: EN61000-4-2,3,4,5,6,8,11 EN61547

Others

Dimension: 135×30×20mm(L×W×H)  
 Packing: 140×34×23mm(L×W×H)  
 Weight(G.W.): 80g±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.



Ordinary dimmer

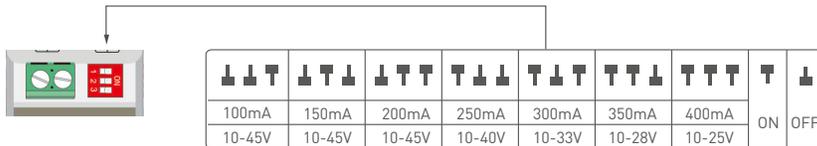
Method: Turn off the power and then remove the housing of the LED driver to find right component on the PCB. Shift system by selecting different contact pin (For installation professionals use only). Factory default as 1-2 (For ordinary dimmer).



Dimming system

### LED Current Selection

The current can be easily configured by choosing the correct combination of the DIP switches (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:

10-45V can power 3-14pcs LEDs in series, 10-25V can power 3-7pcs LEDs in series, the maximum quantity of LEDs in series will be subject to the actual voltage of LED.