

LED Intelligent Driver

1.05~10W 350~700mA 3~24Vdc

- 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.



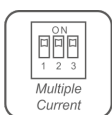
Dimmable:

 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: 3-24Vdc
 Output Power: Max. 10W
 Ripple & Noise: <200mV

Output LF current ripple(<120Hz): <1.5%
 Current Accuracy: ±3%
 No Load Output Voltage: 28Vdc
 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 :	350mA	400mA	450mA	500mA	550mA	600mA	650mA	700mA
Output Voltage :	3-24V	3-24V	3-22V	3-20V	3-18V	3-16V	3-15V	3-14V
Output Power :	1.05-8.4W	1.2-9.6W	1.35-9.9W	1.5-10W	1.65-9.9W	1.8-9.6W	1.95-9.75W	2.1-9.8W

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.

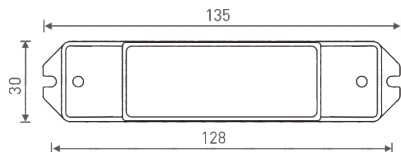
Safety & EMC

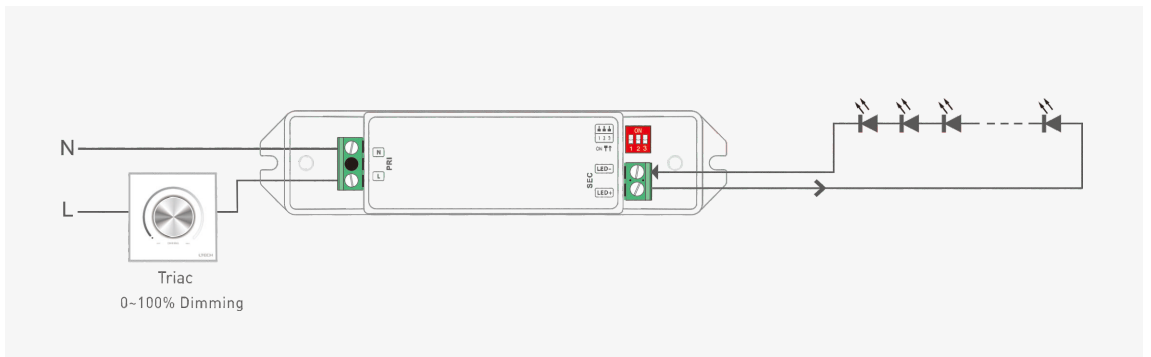
Withstand Voltage: I/P-O/P: 3750Vac;
 Isolation Resistance: I/P-O/P: 100MΩ/500VDC/25°C/70%RH
 Safety Standards: IEC/EN61347-1, IEC/EN61347-2-13
 EMC Emission: EN55015, EN61000-3-2 Class C, IEC61000-3-3
 EMC Immunity: EN61000-4-2,3,4,5,6,8,11 EN61547

Others

Dimension: 135×30×20mm(L×W×H)
 Packing: 140×34×23mm(L×W×H)
 Weight(G.W.): 80g±10g

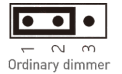
Dimensions





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.

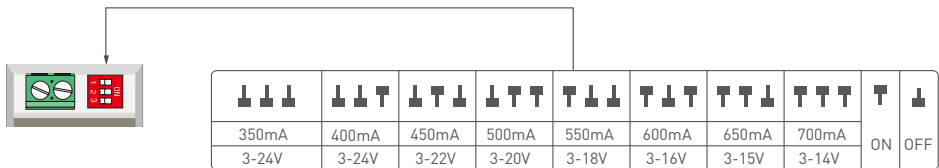


Method: Turn off the power and then remove the housing of the LED driver to find right component on the PCB. Shift system by selecting different contact pin (For installation professionals use only). Factory default as 1-2 (For ordinary dimmer).



LED Current Selection

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:

3-24V can power 1-7pcs LEDs in series, 3-14V can power 1-4pcs LEDs in series, the maximum quantity of LEDs in series will be subject to the actual voltage of LED.