

LED Intelligent Driver

60W 350-1400mA 10-54Vdc

- Dimming interface: RF
- Dimming range: 0-100%, LED start at 0.1% possible.
- Multi-current & wide voltage, suitable for different power LED.
- Power factor > 0.99, Efficiency > 88%.
- Short circuit / Over-temperature / Over load protection, recover automatically.
- Class 2 power supply. Full protective plastic housing.
- Compliant with Safety Extra Low Voltage standard.
- Suitable for internal lights application for I/II/III.



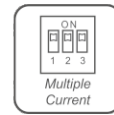
Dimmable:

 0.1%-100%

SELV



CE RoHS



Main characteristics

Wireless Signal: RF 2.4GHz
 Input Voltage Range: 100-240Vac ±10%, 140-340Vdc ±10%
 Frequency: 0/50/60Hz
 Input Current: 115Vac ≤ 0.7A, 230Vac ≤ 0.4A
 Power Factor: PF > 0.99/115Vac, PF > 0.95/230Vac, at full load
 THD: ≤ 15% at 115Vac, ≤ 20% at 230Vac, at full load
 Efficiency(yp.): 88%
 Inrush Current(yp.): Cold start 40A at 230Vac
 Control Surge Capability: L-N: 1kV
 Leakage Current: < 0.5mA/230Vac
 Operating Voltage: 10-54Vdc

Output Power Range: [3.5-60]W, 2CH
 Current Accuracy: ±5%
 Max. Output Voltage: 58Vdc
 PWM Frequency: 200Hz-500Hz
 Dimming Range: 0-100%, 0.1% dimming depth.
 Working Temperature: ta: -30°C ~ 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	500mA	700mA	800mA	1000mA	1100mA	1200mA	1400mA
Output Voltage :	10-54V	10-54V	10-54V	10-54V	10-54V	10-54V	10-50V	10-43V
Output Power :	3.5-18.9W	5-27W	7-37.8W	8-43.2W	10-54W	11-59.4W	12-60W	14-60.2W

Protection

Over-heat Protection: Intelligently adjusting or turning off the output current if the PCB temperature ≥ 110°C, auto recovers.
 Over Load Protection: Rated power ≥ 125%, LED driver enter hiccup mode.
 Short Circuit Protection: Shut down automatically if short circuit occurs, auto recovers.

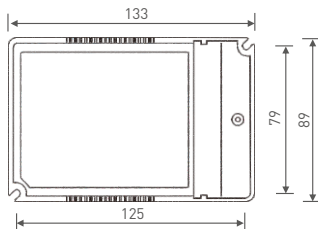
Safety & EMC

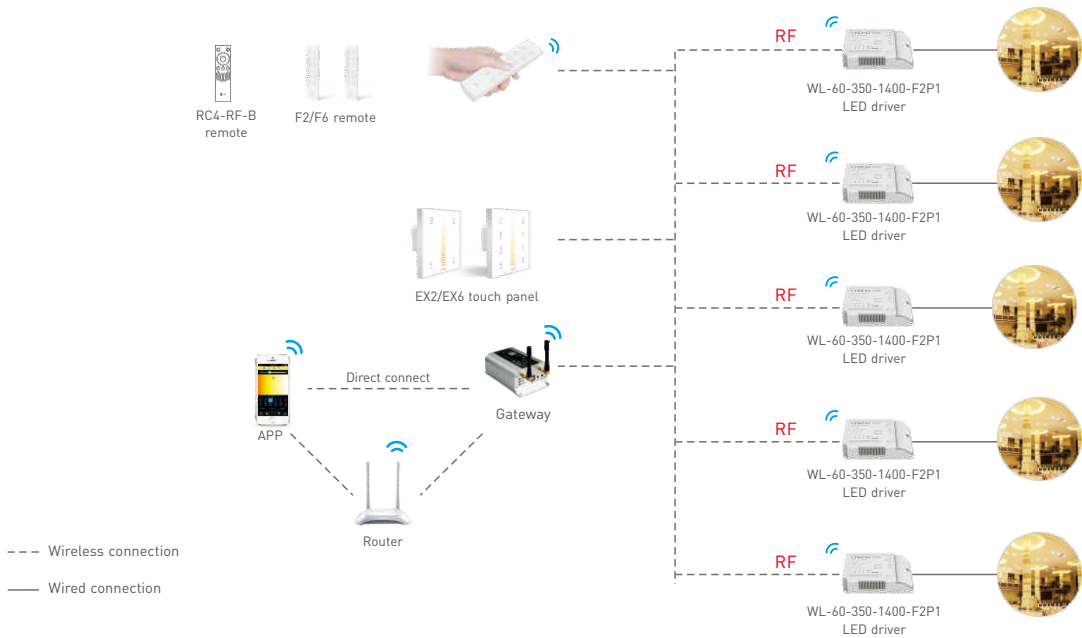
Withstand Voltage: I/P-O/P: 3750Vac
 Isolation Resistance: I/P-O/P: 100MΩ/500VDC/25°C/70%RH
 Safety Standards: IEC/EN61347-1, IEC/EN61347-2-13
 EMC Emission: EN55015, EN61000-3-2 Class C, IEC61000-3-3
 EMC Immunity: EN61000-4-2,3,4,5,6,8,11 EN61547

Others

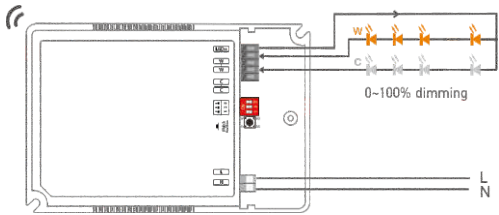
Dimension: 133×89×30mm(L×W×H)
 Packing Size: 135×90×35mm(L×W×H)
 Weight[G.W.]: 320g±10g

Dimensions



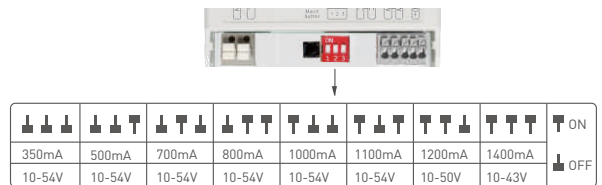


Wiring diagram



* Using constant power programming design. The Max. load output per channel is 60W. The total power of LED color temperature adjustment stay within 60W.

LED current selection



* 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, 10-43V can power 3-13pcs LEDs, the max quantity of LEDs in series will be subject to the actual voltage of LED.

Match code and clear code

Match code: Match code with RC4-RF-B, F2/F6 remote, EX2/EX6 touch panel, WiFi-106 gateway.

Method 1:

1. Power on and off driver continuously for 3 times, the lamps flicker, please complete next step within 10s.
2. Match up with RC4-RF-B: Short press the matching "ON" key.
 Match up with F2/F6 remote: press any key (F2) or zone key (F6).
 Match up with EX2/EX6 panel: press any key (EX2) or zone key (EX6).
 Match up with 106 gateway: select zone number on App, then touch the color slide for 2-3 seconds.
3. If the lamp is on, match successfully.

Method 2:

1. Short press "ID learning button" on driver, the lamps flicker, please complete next step within 10s.
2. Match up with RC4-RF-B: Short press the matching "ON" key.
 Match up with F2/F6 remote: press any key (F2) or zone key (F6).
 Match up with EX2/EX6 panel: press any key (EX2) or zone key (EX6).
 Match up with 106 gateway: select zone number on App, then touch the color slide for 2-3 seconds.
3. If the lamp is on, match successfully.

Match code: Match up with other gateway, please operate according to APP's prompt.

Clear code:

Method 1:

Power on and off driver continuously for 10 times, If the lamps flicker 5 times, deactivate the matching successfully.

Method 2:

Long press "ID learning button" on driver for 10 seconds, If the lamps flicker 5 times, deactivate the matching successfully.