LDT-RF-1CV-5A-IP67

IP67 Two-Button RF LED Dimmer

An IP67 single-channel dimmer with local on/off and lighting-effect controls. Use it with a matched DC supply and a single-colour LED load; optional RF control provides remote dimming.

Model specifications

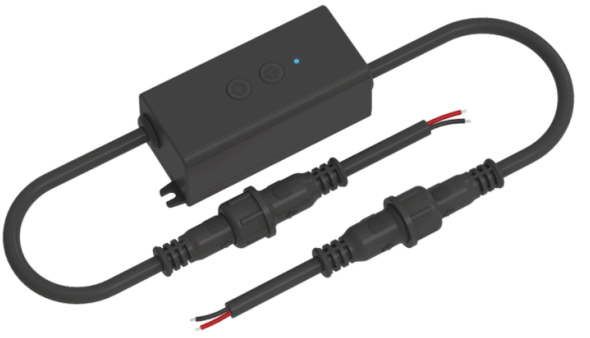
Input / output voltage	12-24 VDC
Output type	1-channel constant-voltage PWM
Maximum output current	5 A
Maximum output power	60 W at 12 V; 120 W at 24 V
Controls	Two local buttons + RF 2.4 GHz
Dimming range	1-100%
Dimming resolution	4096 levels
PWM frequency	2 kHz
Dimming curve	Logarithmic
RF distance	Up to 30 m in unobstructed space
IP rating	IP67
Operating temperature	-20 to +50 °C
Maximum case temperature	+85 °C
Body dimensions	87 x 35 x 18 mm
Input / output leads	400 ±5 mm; 2 x 0.5 mm² per lead
Protection	Reverse polarity

The following technical-reference pages retain the complete diagrams, dimensions, settings and installation instructions. Select the lighting variant stated on this cover; family diagrams may also illustrate other variants.

RF | DIM

Waterproof RF 2-Button Dimming LED Controller

- RF dimmable LED controller with 1 channel constant voltage output.
- IP67 rating, internal gluing, suitable for outdoor and damp environment.
- 2-button operation, support on/off light, adjust brightness, dynamic mode and dynamic speed.
- 4096 levels dimming smoothly without any flash.
- Logarithmic dimming curve.
- Match with RF 2.4G single or multi-zone dimming remote controller optional.



CE RoHS

Technical Parameters

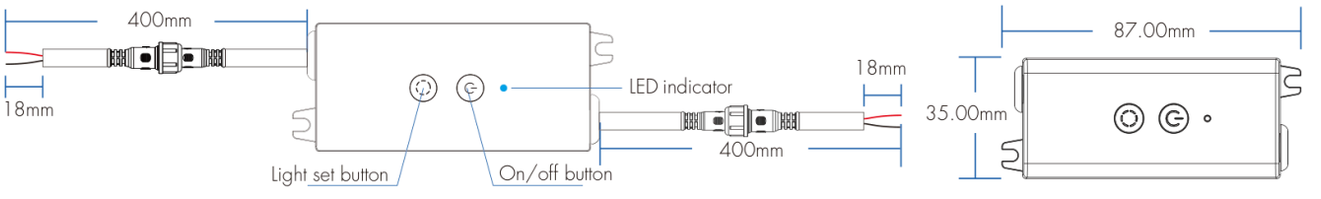
Input and Output	
Input voltage	12-24VDC
Output voltage	12-24VDC
Output current	5A
Output power	60W@12V 120W@24V
Output type	Constant Voltage

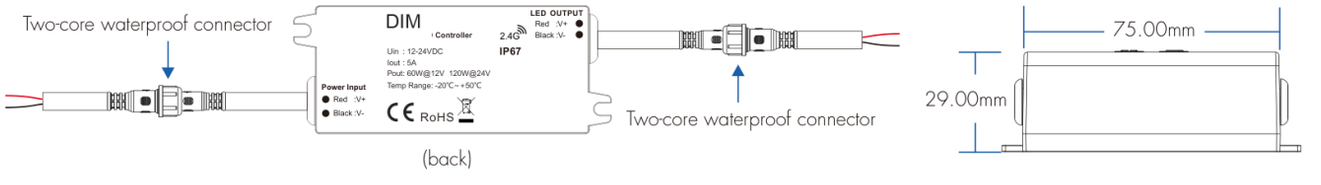
Warranty and Protection	
Warranty	5 years
Protection	Reverse polarity

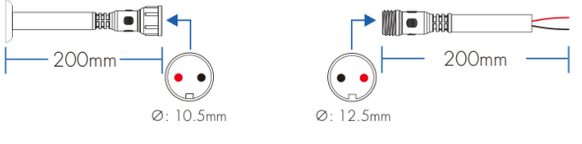
Dimming Data	
Input signal	2-button + RF 2.4GHz
Control distance	30m(Barrier-free space)
Dimming gray scale	4096 (2^12) levels
Dimming range	1 -100%
Dimming curve	Logarithmic
PWM frequency	2000Hz
Package	
Size	L112xW80xH45mm
Gross weight	0.130kg

Safety and EMC	
Safety standard	EN 61347-1/-2
EMC standard	EN IEC 55015/EN IEC 61547 ETSI EN 301 489-1/-3
Radio equipment	ETSI EN 300 440
Certification	CE RoHS
Environment	
Operation temperature	Ta: -20°C ~ +50°C
Case temperature (Max.)	Tc: +85°C
IP rating	IP67

Mechanical Structures and Installations



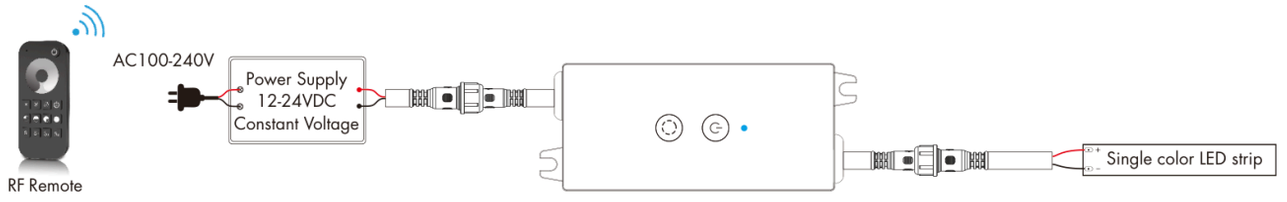




Wire	Specification
Input line	2 cores: 2x0.5mm² Outer diameter: 5.8mm Length: 400±5mm
Output line	2 cores: 2x0.5mm² Outer diameter: 5.8mm Length: 400±5mm

NOTE: When installing, align the insert and tighten the nut.

Wiring Diagram



Button Function

Short press: Turn on/off the light.
Long press (1-6s): Continuous brightness adjustment, dimming range 1-100%.

Short press: Enter static mode, and switch 5 levels brightness(10%,25%,50%,75%,100%).
Double click: Enter dynamic mode and switch 2 dynamic modes (white fade, white jump). White jump in the order of 25%, 50%, 100% brightness.
Long press: In static mode, long press for 1-6s to adjust the brightness continuously, dimming range 10-100%.
In dynamic mode, long press for 2s to sequentially switch 5 levels of dynamic change speed,
and the LED indicator blinks 1 time for every level of switching.

Match With RF Remote Controller

There are two ways to match/delete:

Use Match key

Match:
Press and hold and button 2s, the LED indicator blinks slowly,
immediately press on/off key (single zone remote)
or zone key (multiple zone remote) of the remote.
The LED indicator stop blinks means match is successful.

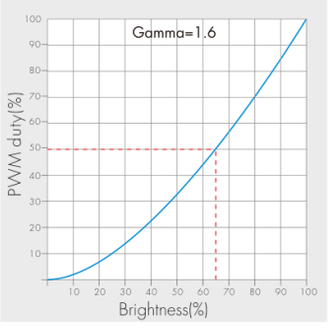
Delete:
Press and hold and button5s,
The LED indicator fast flash 5 times means all matched remotes were deleted.

Use Power Restart

Match:
Switch off the power of the controller, then switch on power, repeat again.
Immediately short press on/off key (single zone remote)
or zone key (multiple zone remote) 3 times on the remote.
The light blinks 3 times means match is successful.

Delete:
Switch off the power of the controller, then switch on power, repeat again.
Immediately short press on/off key (single zone remote)
or zone key (multiple zone remote) 5 times on the remote.
The light blinks 5 times means all matched remotes were deleted.

Dimming Curve



Safety Information

1. Do not install with electricity.
2. Please use it within the working temperature range of -20℃ ~+50℃ to ensure the stable performance of the product.
3. Avoid prolonged immersion in water.
4. Avoid using it in large metal areas or areas with strong electromagnetic waves, otherwise the remote control distance will be affected.