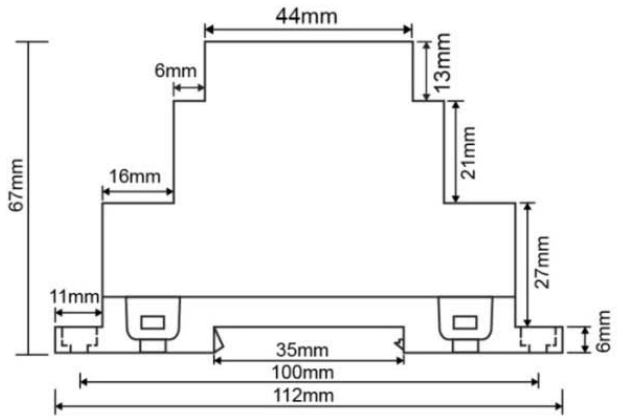
Feature

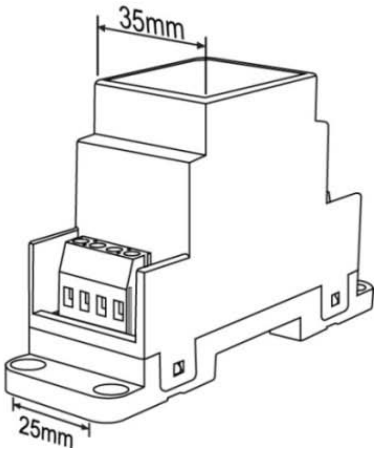
- Meet DMX512 (1990)/RDM (2009) Protocol.
- 3 channels PWM output, the max current of each channel up to 5A
- With the light color selected mechanism, and be able to control the light with 1-3 colors
- DMX address can be set manually by button or RDM master if it works on RDM mode.
- DC power supply
- Support over current protection, short circuit protection function

Technical Parameter

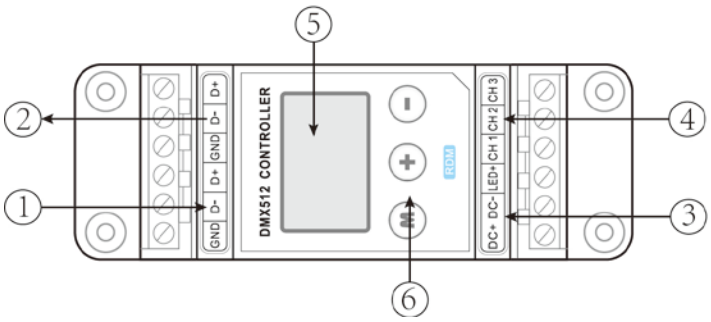
Model	
Input Voltage	12-24VDC
Input Signal	DMX/RDM Dimming signal
Output Current	5A*3Ch (Max)
Output Power	180W(12V)/360W(24V)
Output Channels	3
Dimming Output	PWM
Dimming Range	0-100%
Installation	Rail or Screw fixing
Mounting Rail	TS-35/7.5 or TS-35/15
Product Size	112(L)*35(W)*67(H)mm
Pack Size	354(L)*234(W)*232(H)mm 60Pcs/6.5kg/Carton
G.W	90g
Work Temperature	-30 ~ 50℃

Dimension





Interface Introduction



(1)(2) DMX/RDM signal input/output interface
(3) Power input interface
(4) Driver output interface
(5) Display LED
(6) Keys for address setting

◆ **DMX/RDM signal interface**

1. The DMX signal is not properly connected, current address and --- will be displayed on LED by loop and interval 2S;
2. The DMX signal is paused, current address and P will be displayed on LED by loop and interval is 2S;
3. The DMX signal is normal, current address be displayed only;

◆ **Power input interface:**

DC 12-24V input, supply power for decoder and the lamps it takes.

◆ **Address setting keys:**

Address can be saved automatically, address can be recovered when next power on

- When the address set for 0 to activate the RDM functions, at the same time the first DMX Address of device will be set by the RDM master.
- When the address is not 0, the device will be exit RDM function, then the device will be regarded as the conventional DMX decoder

1. Key "M", used to lock or unlock address setting function, normally address can't be setting. When long press this key for 3 seconds, the dot in the bottom right of LED will be on, used to indicate unlocked, you can change the address. After setting address, long press the M key 2S or do not press any button 5S, the dot will be off, indicating that the address code is locked and

can’t be modified

2. Key"+", used for add address number, short press address add 1 each time, long press address will be changed very fast, reduce setting time, the maximum address is 511
3. Key"-", used for minus address number, short press address minus 1 each time, long press address will be changed very fast, reduce setting time, the minimum address is 0

Remark:

- The default address code is 1
- Address 508 to 511 is as a test mode to confirm that the wire is connected properly if there is no signal is coming.

◆ **Driver output interface**

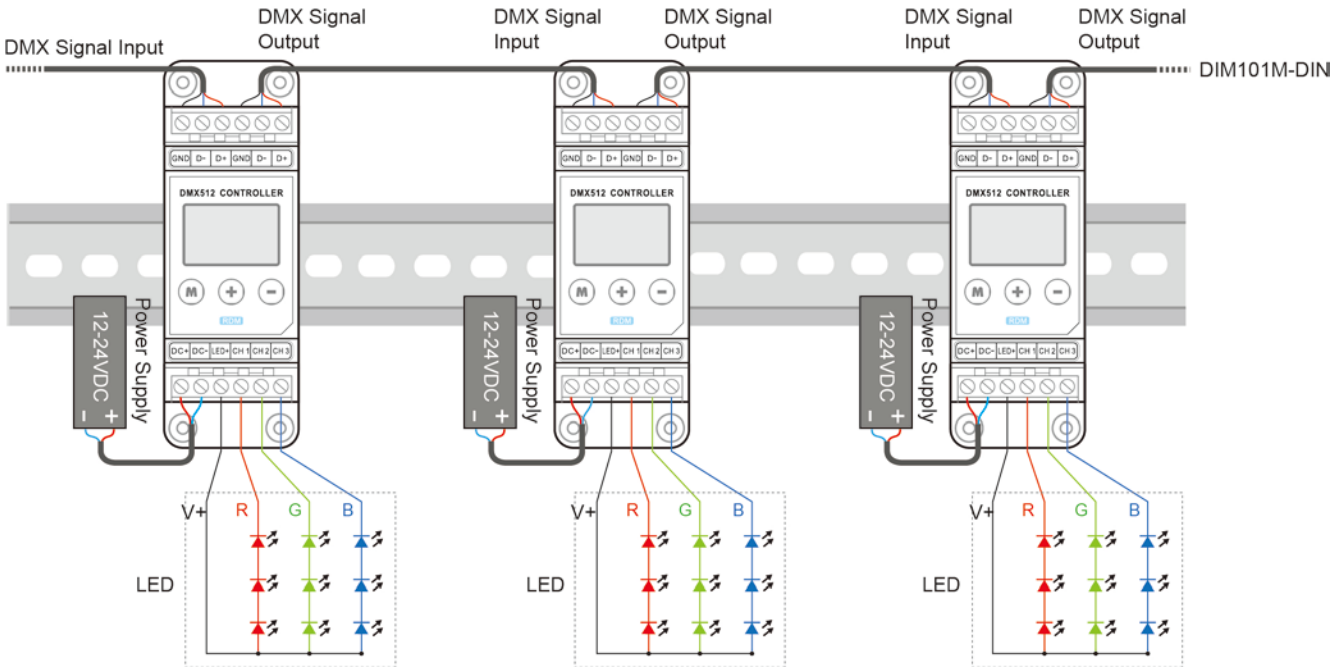
Common anode, V+ and R,G,B interface，can drive kinds of RGB module or single-color module, Can regulate output current according to the actual load.

Remark:

Connect the anode and RGB wire of common anode RGB module to the output interface of decoder directly; Connect the anode wire of single-color module to V+ on decoder, and connect the cathode wire to one of RGB pin according to the LED's color;

Connect several colors single-color module to one decoder, please connect their anode wires to V+ pin on decoder.

Wiring Diagram



- The wire for DMX is STP, the DMX signal has positive and negative signal. Pay attention to the polarity while soldering. Connect the positive signal, negative signal and GND to the corresponding signal of device.
- Set DMX Address by button or be scan and set automatically by DMX master controller followed RDM protocol.
- Connect a signal terminal at the end of the whole connection.