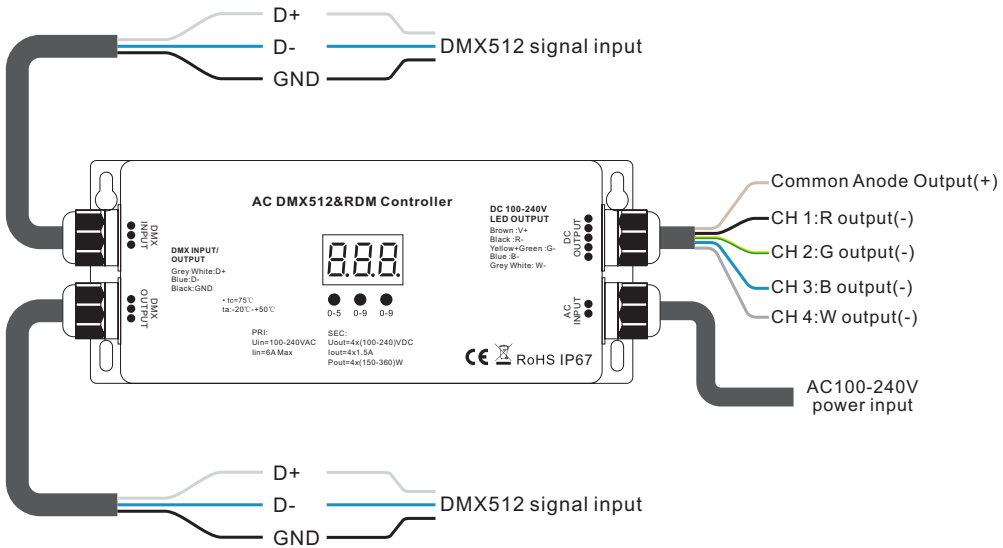
# DMX/RDM High Volt LED Strip Controller

09.218HP.04263

***Important:*** *Read All Instructions Prior to Installation*

## Function introduction




## Product Data

| Input Voltage | Output Voltage | Output Current | Max Load | Size(LxWxH) | Ambient Temp. |
|---|---|---|---|---|---|
| AC 100-240V | DC 100-240V | Max. 4x1.5A | 660W@110V<br>1320W@220V | 180.5x73.6x38mm | -20℃-+50℃ |

- RDM enabled DMX high voltage LED strip controller
- Output for high voltage DC100~240V LED Strip
- Standard DMX512 compliant control interface
- RDM function enabled to realize intercommunication between DMX master and decoder.
- For example, DMX decoder's address can be assigned by DMX master console
- With digital display to show data directly, easily to set and show DMX address.
- Total 4 channels LED output, common anode
- DMX address manually settable
- DMX channel quantity from 1CH~4CH settable
- Output PWM frequency from 500HZ ~ 35K HZ settable, but do not set it higher than 3KHz.
- Output dimming curve gamma value from 0.1 ~ 9.9 settable
- Waterproof grade:IP67

## Safety & Warnings

- DO NOT install with power applied to device.
- This device is IP67 rating and protected against damp environment.

## Operation

To set desired DMX512 address through buttons,
**button A** is to set "hundreds" position,
**button B** is to set "tens" position,
**button C** is to set "unit" position.

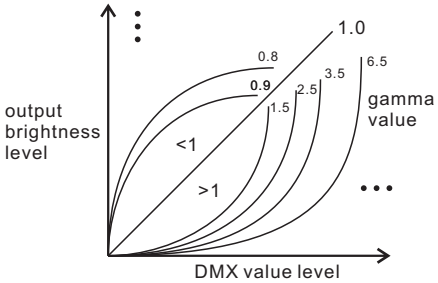
**Set DMX address (Factory default DMX address is 001)**
Press and hold down any of the 3 buttons for over 3 seconds, digital display flashes to enter into address setting, then keep short pressing button A to set "hundreds" position, button B to set "tens" position, button C to set "units" position, then press and hold down any button for >3 seconds to confirm the setting.

DMX signal indicator ● : When DMX signal input is detected, the indicator on the display following after the digit of "hundreds" position of DMX address turns on red .

**Choose DMX Channel (Factory default DMX channel is 4CH)**
Press and hold down both buttons B+C simultaneously for over 3 seconds, CH digital display flashes, then keep short pressing button A to choose 1/2/3/4, which means total 1/2/3/4 channels. Press and hold down button A for >3 seconds to confirm the setting. Factory default is 4 DMX channels.
For example the DMX address is already set as 001.
1CH=1 DMX address for all the output channels, which all will be address 001.
2CH=2 DMX addresses , output 1&3 will be address 001, output 2&4 will be address 002
3CH=3 DMX addresses, output 1, 2 will be address 001, 002 respectively, output 3&4 will be address 003
4CH=4 DMX addresses, output 1, 2, 3, 4 will be address 001, 002, 003, 004 respectively

**Choose PWM frequency (Factory default PWM frequency is PF1 1KHz)**
Press and hold down both buttons A+B simultaneously for over 3 seconds, digital display will show PF1, PF means output PWM frequency, the digit 1 will flash, which means frequency, then keep short pressing button C to select a frequency from 0-9 and A-J, which stand for following frequencies:
0=500Hz, 1=1KHz, 2=2KHz, …, 9=9KHz, A=10KHz, B=12KHz, C=14KHz, D=16KHz, E=18KHz, F=20KHz, H=25KHz, J=35KHz.
Then press and hold down button C for >3 seconds to confirm the setting.
**Note: DO NOT set the PWM frequency higher than 3KHz to avoid over heat and damage to the device.**

**Choose Dimming Curve Gamma Value (Factory default dimming curve value is g1.0)**
Press and hold down all buttons A+B+C simultaneously for over 3 seconds, digital display flashes g1.0, 1.0 means the dimming curve gamma value, the value is selectable from 0.1-9.9, then keep short pressing button B and button C to select corresponding digits, then press and hold down both buttons B+C for >3 seconds to confirm the setting.



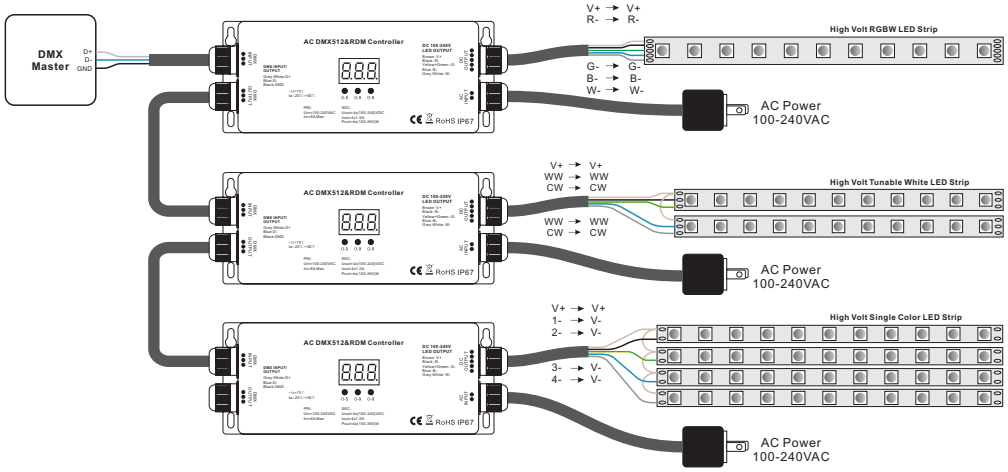
**Restore to Factory Default Setting**

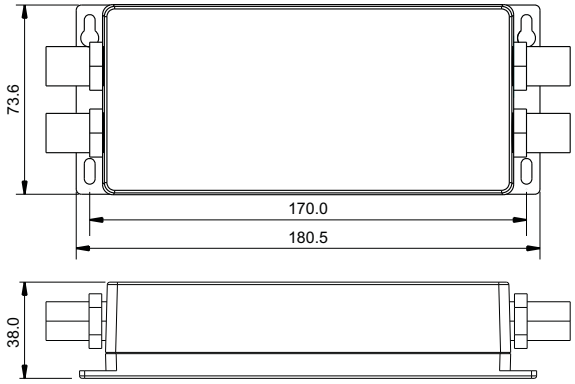
Press and hold down both buttons A+C for over 3 seconds until the digital display turns off and then turns on again, all settings will be restored to factory default.
Default settings are as follows:
DMX Address: 001
DMX Address Quantity: 4CH
PWM Frequency: PF1
Gamma: g1.0

**The supported RDM PIDs are as follows:**

DISC_UNIQUE_BRANCH
DISC_MUTE
DISC_UN_MUTE
DEVICE_INFO
DMX_START_ADDRESS
IDENTIFY_DEVICE
SOFTWARE_VERSION_LABEL
DMX_PERSONALITY
DMX_PERSONALITY_DESCRIPTION
SLOT_INFO
SLOT_DESCRIPTION
MANUFACTURER_LABEL
SUPPORTED_PARAMETERS

## Wiring diagram




## Product Dimension