# DA

DMX Signal Amplifier

- One DMX512 signal input, two DMX512 signal output.
- Dedicated to amplify, distribute and insulate the signal that comes from the lighting system equipment when it is connected to the bus of DMX512(or RS-485).
- Realize extending the signal transmission distance.
- Signals expansion output control, increase DMX (485) signal amplifier to distribute multi-channel control.
- Photo-electricity insulation between input and output terminals, output terminals among channels, so as to avoid the expensive equipment such as light, 485 communications equipment, DMX driver, precise digital lighting controller, being burnt by the possible high voltage which caused from the wrong wire connection and a broken equipment, also can avoid the signal interference between each DMX equipment.
- Available in white or black.
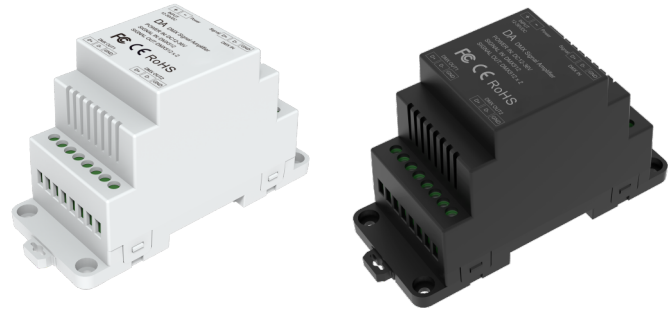
FC CE RoHS emc LVD

Technical Parameters

Input and Output		Environment		Safety and EMC	
Input voltage	12-36VDC	Operation temperature	Ta: -30℃ ~ +55℃	EMC standard (EMC)	EN IEC 55015:2019+A11:2020 EN 61547:2009 EN IEC 61000-3-2:2019+A11:2021 EN 61000-3-3:2013+A11:2019
Input current	0.5A Max.	Case temperature (Max.)	Tc: +65℃		
Input signal	DMX512	IP rating	IP20		
Output signal	DMX512 x 2	Package			
Warranty		Size	L120 x W78 x H55mm	Safety standard(LVD)	EN 61347-1:2015+A1:2021 EN 61347-2-13:2014+A1:2017
Warranty	5 years	Gross weight	0.125kg		
Protection	Reverse Polarity			Certification	CE,EMC,LVD

Mechanical Structures and Installations

Wiring Diagram
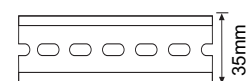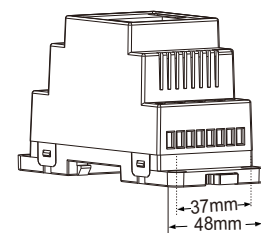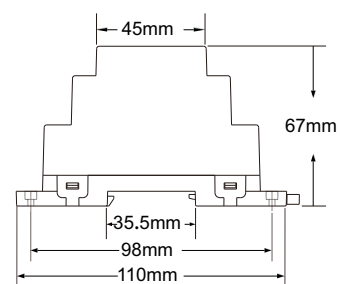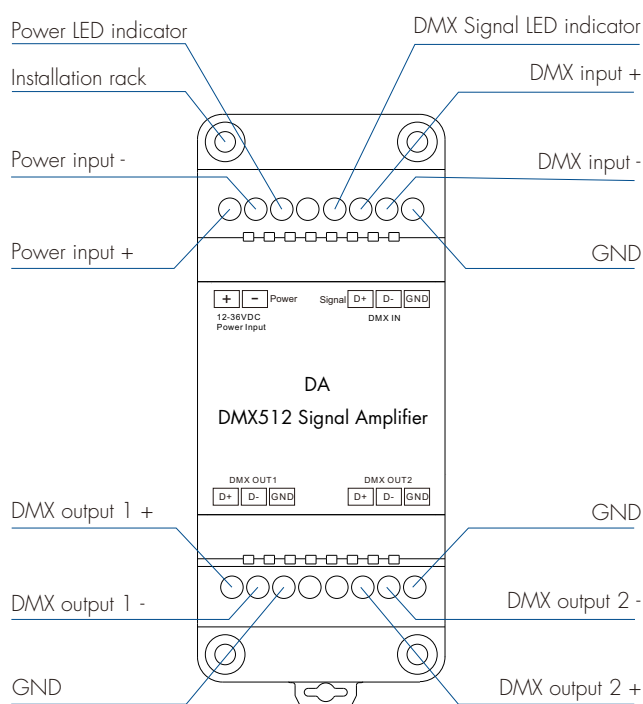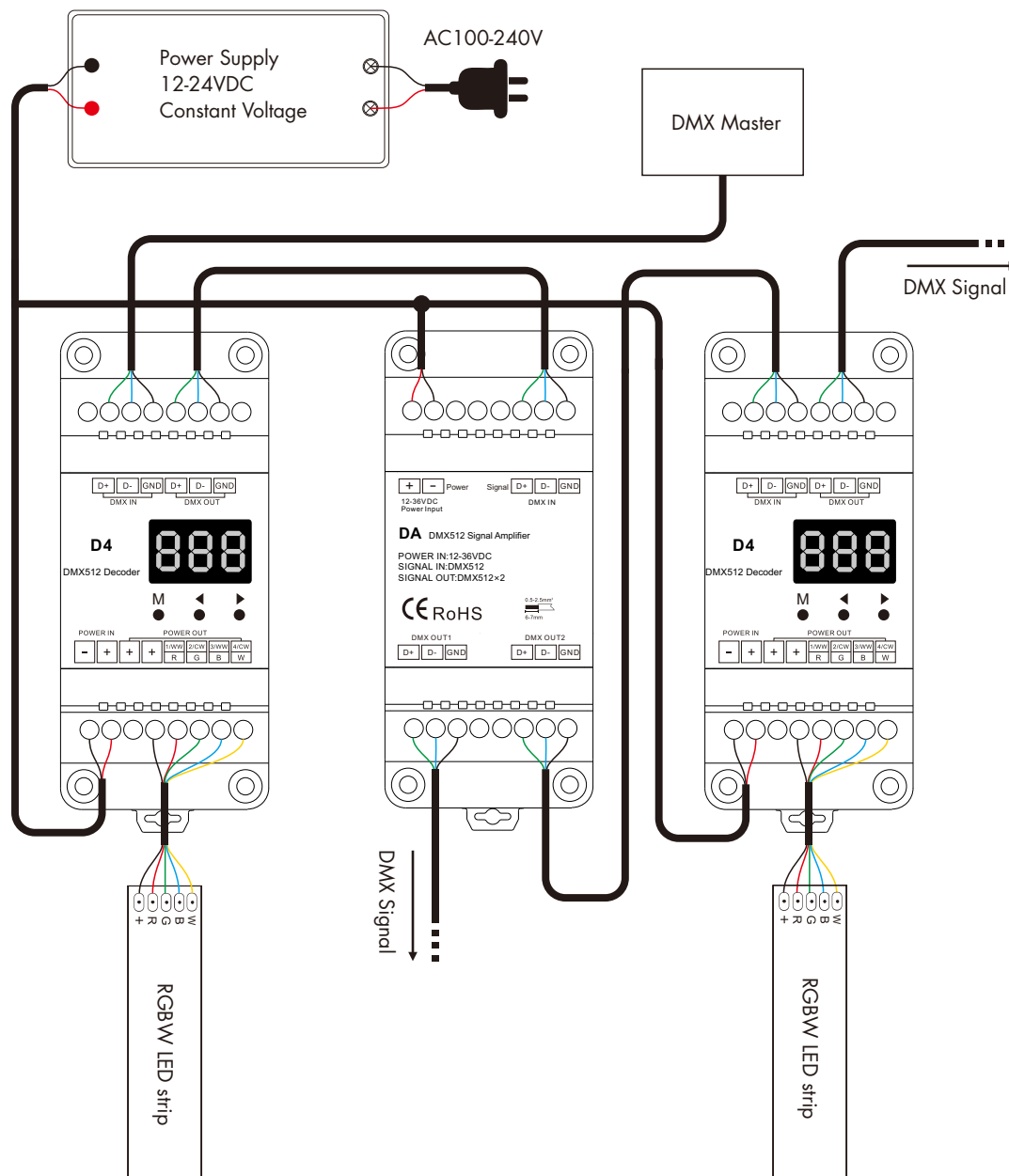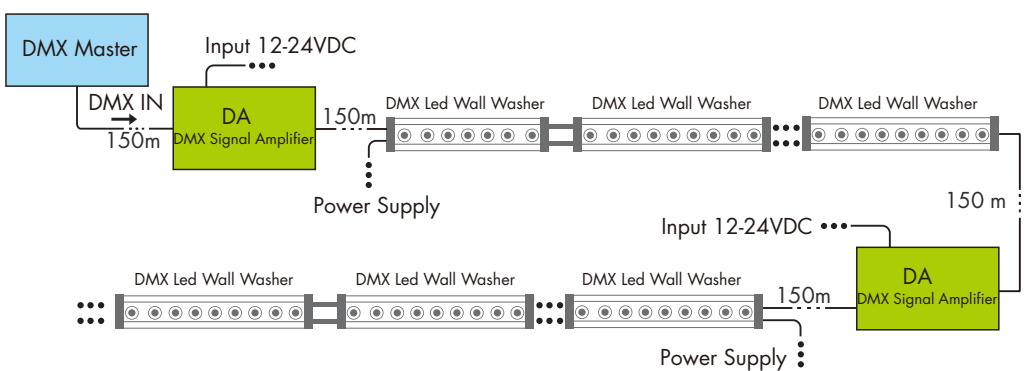

Note:

1. An amplifier is needed when more than 32 decoders are connected, signal amplification should not be more than 5 times continuously.

2. If the recoil effect occurs because of longer signal line or bad line quality, please try to connect 0.25W 90-120Ω terminal resistor at the end of each line.

A. The signal of many of DMX LED lights connection example:

DMX Master

DMX IN →

DMX Led Wall Washer   DMX Led Wall Washer   DMX Led Wall Washer

Power Supply

Input 12-24VDC

DA
DMX Signal Amplifier

Input 12-24VDC

DA
DMX Signal Amplifier

DMX Led Wall Washer   DMX Led Wall Washer   DMX Led Wall Washer

DMX OUT1

DMX OUT1   DMX Led Wall Washer   DMX Led Wall Washer   DMX Led Wall Washer   Power Supply

Power Supply
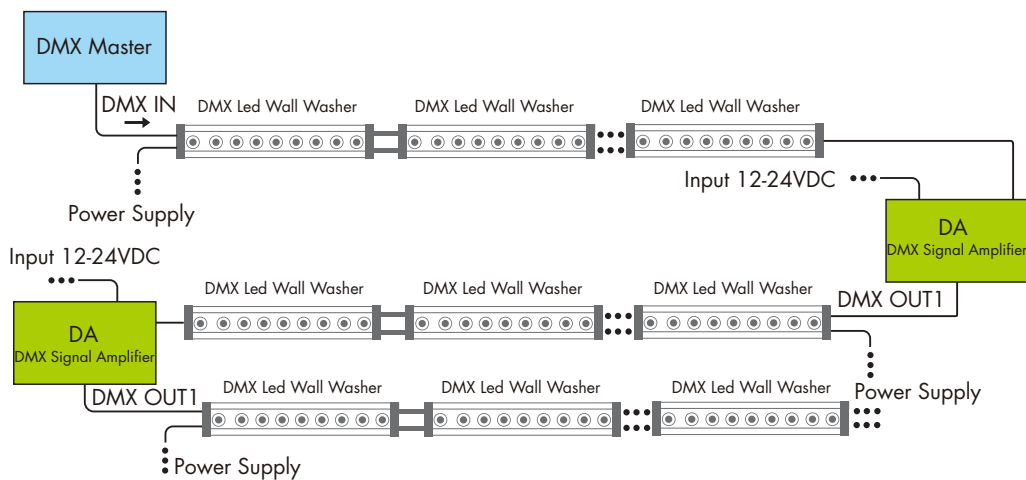
B. The long distance of DMX signal example:

DMX Master

Input 12-24VDC

DMX IN →
150m

DA
DMX Signal Amplifier

150m   DMX Led Wall Washer   DMX Led Wall Washer   DMX Led Wall Washer

Power Supply

150 m

Input 12-24VDC

DA
DMX Signal Amplifier

DMX Led Wall Washer   DMX Led Wall Washer   DMX Led Wall Washer   150m

Power Supply

C. The distribution of DMX signal example:

DMX Master

Input 12-24VDC

DMX IN →

DA
DMX Signal Amplifier

Power Supply

DMX Led Wall Washer   DMX Led Wall Washer   DMX Led Wall Washer

DMX Led Wall Washer   DMX Led Wall Washer   DMX Led Wall Washer

Power Supply

Input 12-24VDC

DA
DMX Signal Amplifier

Power Supply

DMX Led Wall Washer   DMX Led Wall Washer   DMX Led Wall Washer

DMX Led Wall Washer   DMX Led Wall Washer   DMX Led Wall Washer

Power Supply