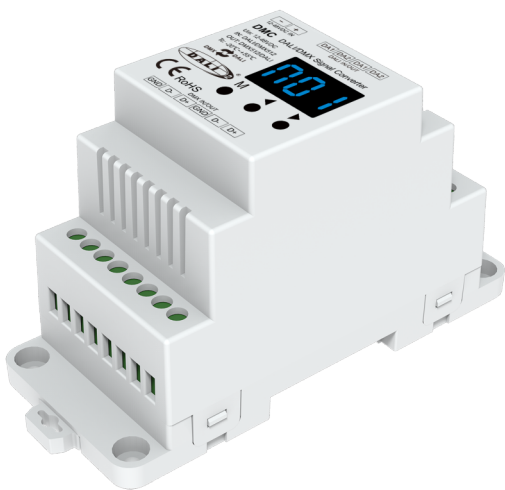


DALI / DMX512 Signal Converter

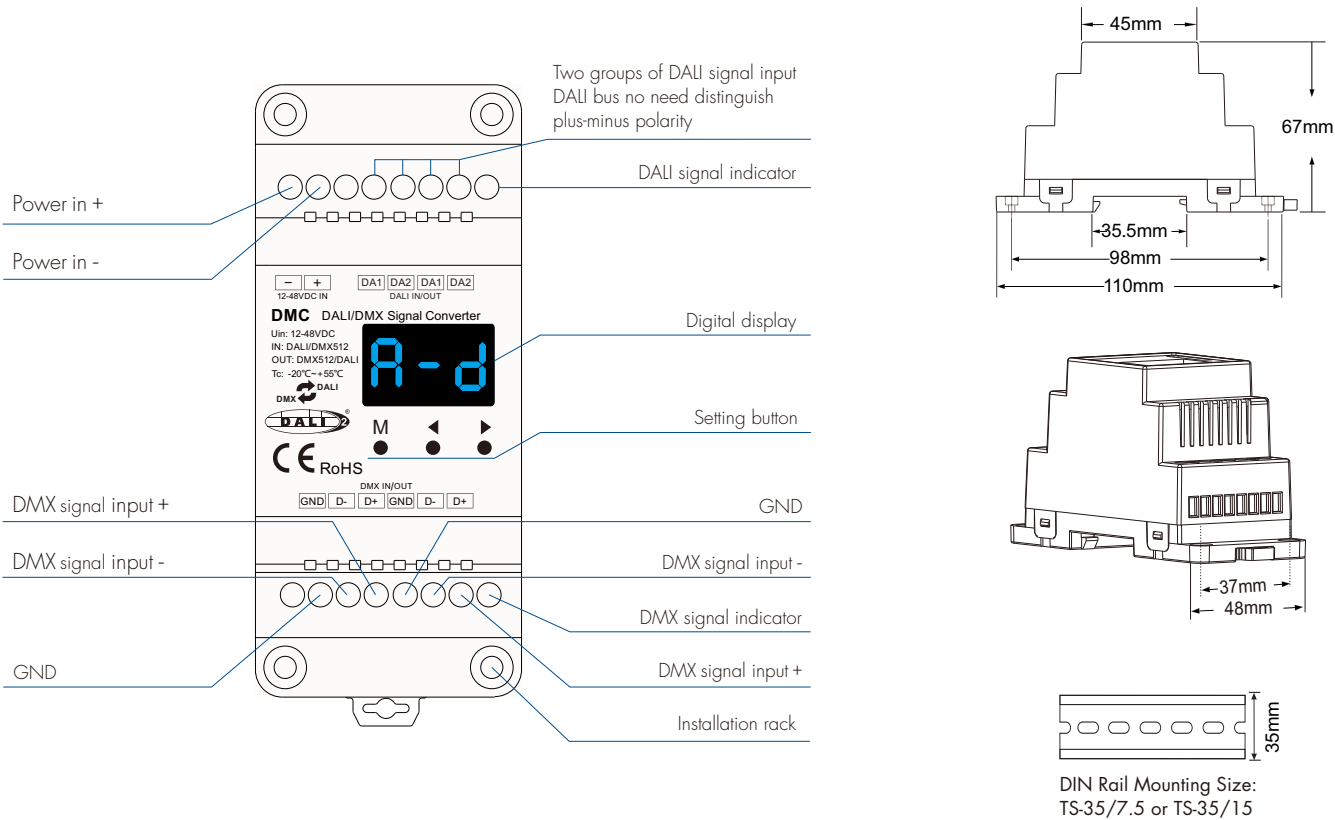
- DALI/DMX512 signal converter,  
convert DALI signal to DMX512 signal to realize DALI master control of DMX devices.  
or convert DMX512 signal to DALI signal to realize DMX master control of DALI devices.
- 3-button operation with digital display.
- Set the work mode, channel number, DALI first address,  
and DMX512 first address by buttons.
- DALI-2 certified, in accordance with DALI standard protocol IEC 62386  
and in compliance with DALI products from other international incorporation.
- Compliant with DMX512 standard protocol.



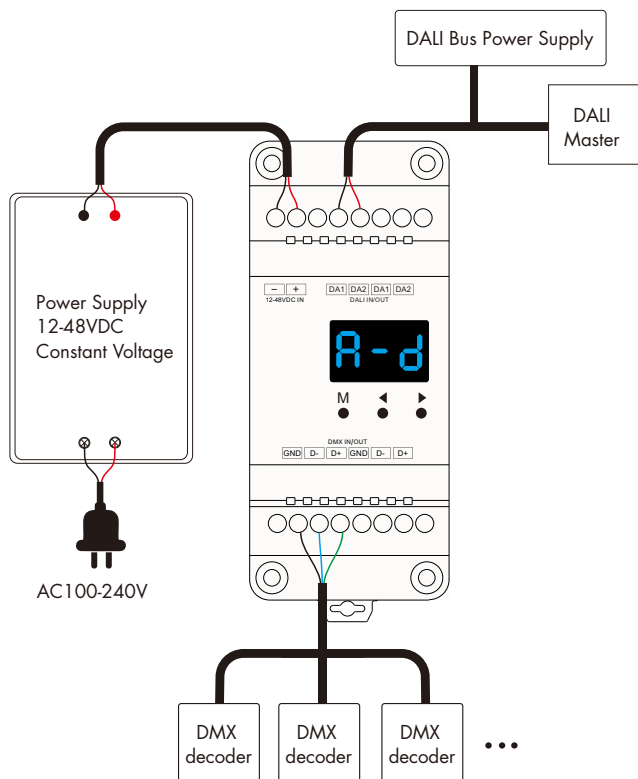
Technical Parameters

| Input and Output |                | Environment             |                  | Safety and EMC       |                                                                                                             |
|------------------|----------------|-------------------------|------------------|----------------------|-------------------------------------------------------------------------------------------------------------|
| Input voltage    | 12-48VDC       | Operation temperature   | Ta: -20℃ ~ +55℃  | EMC standard (EMC)   | EN IEC 55015:2019+A11:2020<br>EN 61547:2009<br>EN IEC 61000-3-2:2019+A11:2021<br>EN 61000-3-3:2013+A11:2019 |
| Input current    | <40mA          | Case temperature (Max.) | Ta: +65℃         | Safety standard(LVD) | EN 61347-1:2015+A1:2021<br>EN 61347-2-13:2014+A1:2017                                                       |
| Standby power    | <0.5W          | P rating                | P20              | Certification        | CE, EMC, LVD, DALI-2                                                                                        |
| Input signal     | DALI or DMX512 | Warranty and Protection |                  | Package              |                                                                                                             |
| Output signal    | DMX512 or DALI | Warranty                | 5 years          | Size                 | L120x W78 x H55mm                                                                                           |
|                  |                | Protection              | Reverse Polarity | Gross weight         | 0.164kg                                                                                                     |

Mechanical Structures and Installations



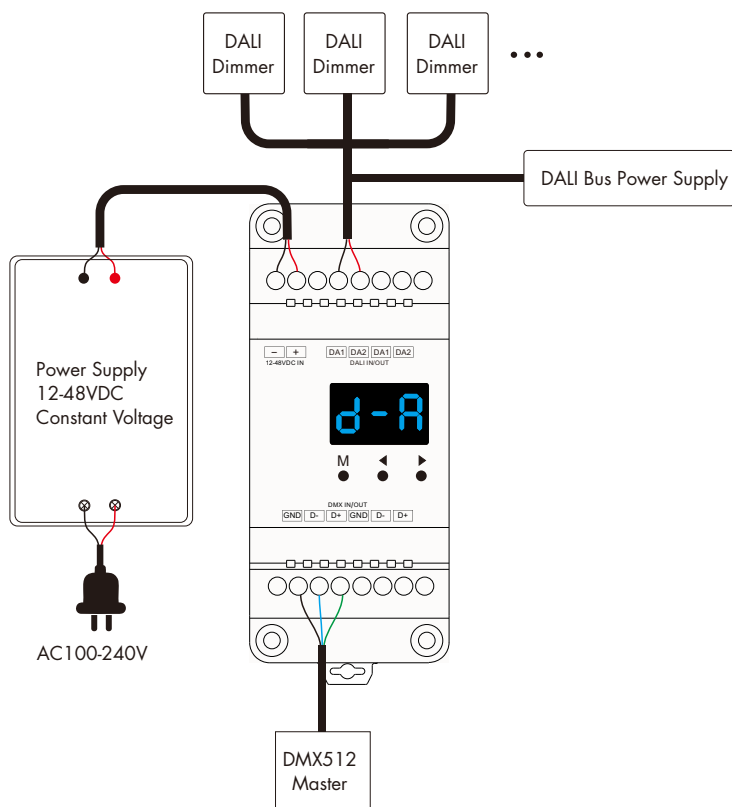
## 1. DALI to DMX512 mode wiring



### Note:

- One or more DMX512 decoders can be connected to the DMX512 signal output ports.
- Indicator status:  
DALI signal indicator is always on. When the signal converter receives DALI signal, DALI signal indicator flashes.  
DMX signal indicator is always off. When the signal converter sends DMX signal, DMX signal indicator flashes.

## 2. DMX512 to DALI mode wiring



### Note:

- One or more DALI dimmers can be connected to the DALI signal output ports.
- Indicator status:  
DMX signal indicator is always on. When the signal converter receives DMX signal, DMX signal indicator flashes.  
DALI signal indicator is always off. When the signal converter sends DALI signal, DALI signal indicator flashes.

Key operation

- Long press the M button for 2s, enter the system parameter setting interface, the digital tube blinks.  
Prepare to set the work mode, channel number, DALI first address, DMX512 first address.  
Short press M button to switch four setting items.
- Work mode: Short press ◀ or ▶ button to switch DALI to DMX512 ("A-d"), DMX512 to DALI ("d-A") two work modes.
- Channel number: Short press ◀ or ▶ button to set the channel number, setting range is 01-64, display "Cxx".
- DALI first address: Short press ◀ or ▶ button to set DALI first address, setting range is 00-63, display "Axx".
- DMX512 first address: Short press ◀ or ▶ button to set DMX512 first address, setting range is 001-512, display "xxx".
- Default display of digital tube: "A-d" in DALI to DMX512 mode; "d-A" in DMX512 to DALI mode.

DALI to DMX512 mode

According to channel number and the DALI first address, the DALI address dimming data is sequentially converted to the dimming data of the DMX channel.  
(In the DALI to DMX mode, the DMX first address is fixed to 001.)

Example:  
If the channel number is 30 and the DALI first address is A00,  
the conversion relationship between DALI dimming data and DMX512 channel dimming data is shown in the table below.

| DALI address | DMX address            |
|--------------|------------------------|
| A00          | 001                    |
| A01          | 002                    |
| A02          | 003                    |
| .....        | .....                  |
| A28          | 029                    |
| A29          | 030                    |
| A30-A63      | Invalid, not converted |

DMX512 to DALI mode

According to the channel number, DMX512 first address, and DALI first address, the DMX512 dimming data is sequentially converted to DALI dimming data.

Example:  
If the channel number is 30, the DMX512 first address is 100, and the DALI first address is A10.  
Then the conversion relationship between DMX512 channel dimming data and DALI dimming data is shown in the table below.

| DMX address | DALI address           |
|-------------|------------------------|
| 000-099     | Invalid, not converted |
| 100         | A10                    |
| 101         | A11                    |
| .....       | .....                  |
| 129         | A39                    |
| 130         | A40                    |
| 131-512     | Invalid, not converted |