# SLC Power CV 24V 75W DALI

**SLC** Scandinavian Lighting Concept

*Important: Read All Instructions Prior to Installation*

## Function introduction



AC 100-277V power input

Digital display

Common Anode Output(+)
CH 1 output(-)
CH 2 output(-)
CH 3 output(-)
CH 4 output(-)

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DALI signal/ AC push input
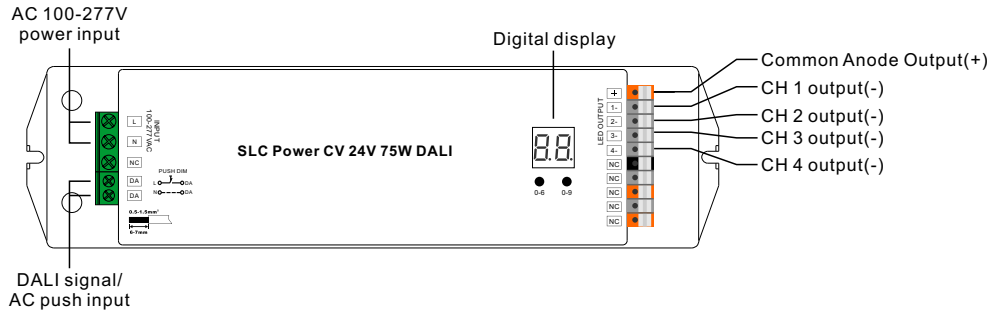
| | | |
|---|---|---|
| **Output** | LED Channel | 4 |
| | DC Voltage | 24V DC |
| | Max. Current | Max. 3.12A/ch, ch1+ch2+ch3+ch4=3.12A |
| | Voltage Tolerance | ±1% |
| | Rated Power | max. 75W |
| **Input** | Voltage Range | 100-277V AC |
| | Frequency Range | 50/60Hz |
| | Power Factor (Typ.) | > 0.95 |
| | Total Harmonic Distortion | THD ≤ 15% (@ full load / 230VAC) |
| | Efficiency (Typ.) | 86% @ 230VAC full load |
| | AC Current (Typ.) | 0.9A @ 100VAC, 0.39A @ 230VAC |
| | Inrush Current (Typ.) | COLD START Max. 2A at 230VAC |
| | Leakage Current | < 0.5mA /230VAC |
| | Standby Power Consumption | < 1W |
| **Control** | Dimming Interface | DALI/Push Switch |
| | Dimming Range | 0%-100% |
| | Dimming Method | Pulse Width Modulation |

| | | |
|---|---|---|
| **Protection** | Short Circuit | Yes, recovers automatically after fault condition is removed |
| | Over Current | Yes, recovers automatically after fault condition is removed |
| | Over Temperature | Yes, recovers automatically after fault condition is removed |
| **Environment** | Working Temp. | -20℃ ~ +45℃ |
| | Max. Case Temp. | 85℃ |
| | Working Humidity | 10% ~ 95% RH non-condensing |
| | Storage Temp. & Humidity | -40℃ ~ +80℃, 10% ~ 95% RH |
| **Safety & EMC** | Safety Standards | EN61347-1, EN61347-2-13 |
| | Withstand Voltage | I/P-O/P: 3.75KVAC |
| | Isolation Resistance | I/P-O/P: 100M Ohms / 500VDC / 25℃ / 70% RH |
| | EMC Emission | EN55015, EN61000-3-2, EN61000-3-3 |
| | EMC Immunity | EN61547, EN61000-4-2,3,4,5,6,8,11, surge immunity Line-Line 1KV |
| **Others** | MTBF | 193.6K hrs min. @ 230VAC full load and 25℃ ambient temperature |
| | Dimension | 244x64x32mm (L*W*H) |

- Dimmable LED driver
- Max. output power 75W total
- 4 channels DC 24V constant voltage output
- Class Ⅱ power supply, full isolated plastic case
- High power factor and efficiency
- To control single color, dual color, RGB/RGBW LED lighting
- Built-in DALI/PUSH dimming interface
- Compatible with universal DALI masters that support DT6 commands
- IP20 rating
- Suitable for indoor LED lighting applications
- 5 years warranty

## Safety & Warnings

- DO NOT install with power applied to device.
- DO NOT expose the device to moisture.

## Operation

**Set DALI Address Manually Via Buttons**

1.1. Press and hold down any of the two buttons until numeric digital display flashes, then release the button.
1.2. Click any of the two buttons once to select a digit, click again to change the digit until the desired DALI address appears. Click first button to set "tens" position and second button to set "units" position. The address can be set from 00~63.

1.3. Then press and hold down any of the 2 buttons until the numeric digital display stops flashing to confirm the setting.

**Note: DALI address can be manually assigned from 00-63-FF, by factory defaults, no DALI address is assigned for the dimmer, and the display shows** $FF$ **. Setting DALI address as** $FF$ **will reset the dimmer to factory defaults.**

**2.DALI Address Assigned by DALI Masters**
2.1 DALI address can also be assigned by DALI Master controller automatically, please refer to user manuals of compatible DALI Masters for specific operations.

**Note: The digital display will show AU when the DALI master is assigning addresses.**

**3.Set DALI Address Quantity**



3.1 Press and hold down both of the two buttons until numeric digital display flashes, then release the button.
3.2 Click first button to select "1A", "2A", "3A" or "4A" which means 1, 2, 3 or 4 addresses.
3.3 Then press and hold down any of the 2 buttons until the numeric digital display stops flashing to confirm the setting.
For example, when we set address to 22:
When select 1A, both 4 channels will be the same address 22.
When select 2A, channel 1&3 will be address 22, channel 2&4 will be address 23.
When select 3A, channel 1, 2, 3 will be address 22, 23, 24 respectively, channel 4 will be address 22.
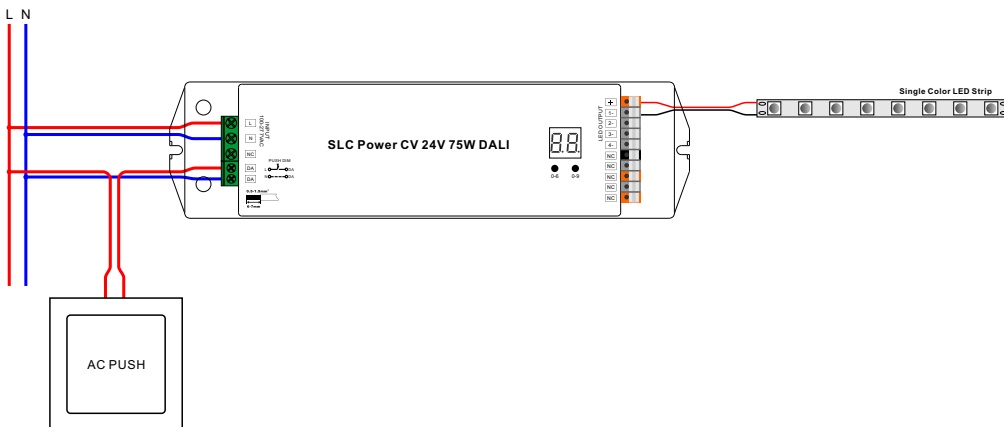When select 4A, channel 1, 2, 3, 4 will be address 22, 23, 24, 25 respectively.

**4. Push Dimmer Mode**

While connected with a PUSH, the digital display will show "PD" which means Push Dimmer Mode, operations under PUSH Dimmer Mode are as follows:
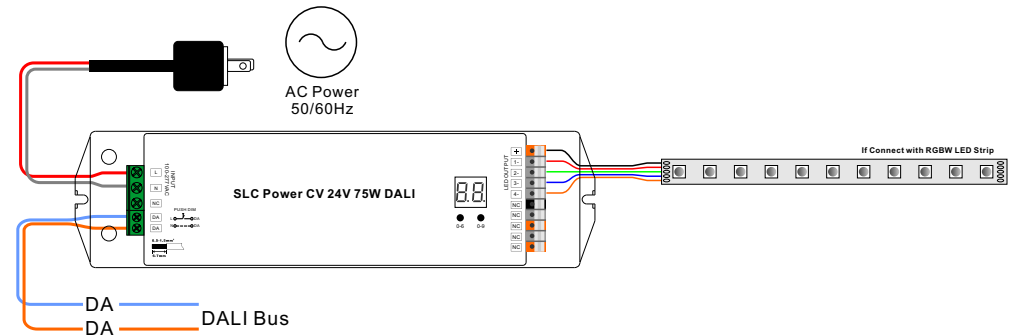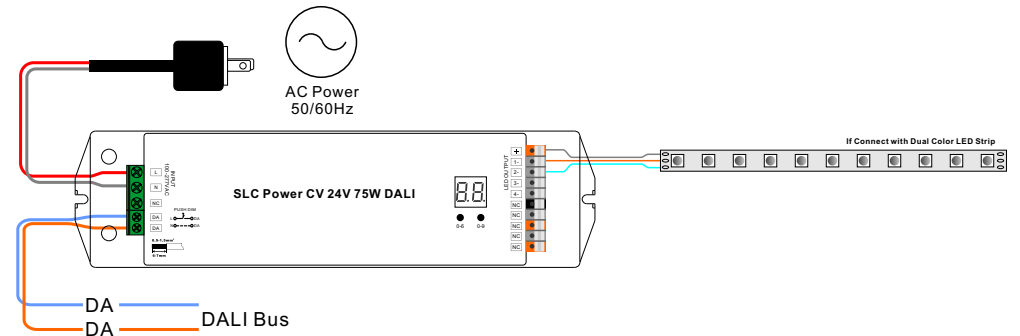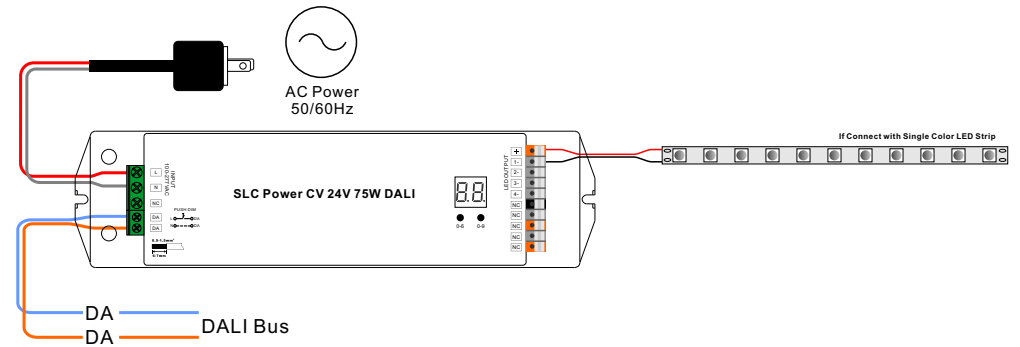4.1. Click the button to switch ON/OFF
4.2. Press and hold down the button to increase or decrease light intensity to desired level and release it, then repeat the operation to adjust light intensity to opposite direction. The dimming range is from 1% to 100%.
4.3. Memory function after power off or power failure enables the device to memorize the status before power off while power on again.

## Wiring diagram

1.With PUSH dimmer



2.With DALI bus







## Product Dimension



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