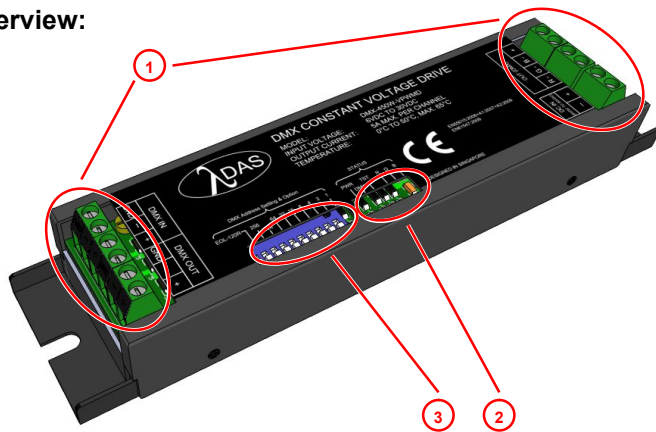


DMX 3-Channel Constant Voltage Drive Unit

Key Features:

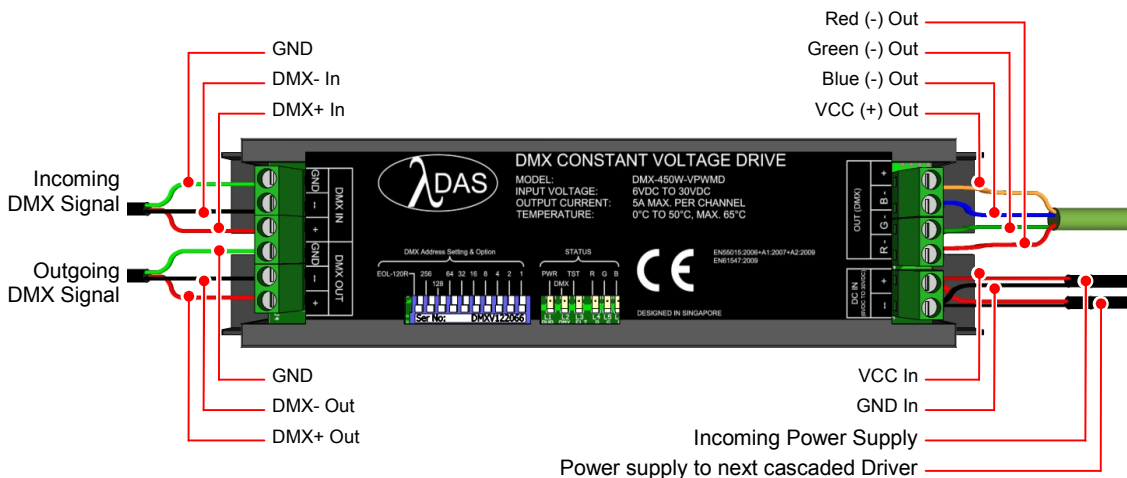
- Comply with USITT-DMX512-A DMX protocol standard
- Connect up to 120 drivers in one DMX control signal loop
- In-built end-of-line terminal resistor (120 ohm) selectable via DIP switch setting
- No restart of driver needed after any DMX address changes
- Test mode for output LED connection
- Status display for DMX signal, RGB output status & test mode
- Wide input voltage range:
 - From **6Vdc to 30Vdc** (Model: DMX-450W-VPWMD)
 - From **6Vdc to 48Vdc** (Model: DMX-720W-VPWMD-HV)
- Able to drive up to **5A per channel**

Overview:

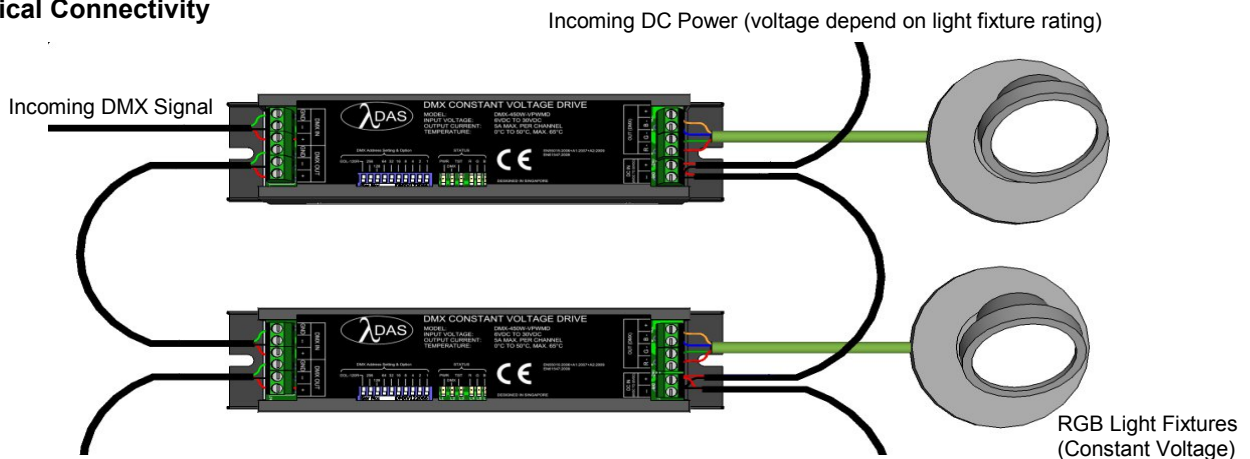


- ① Input & Output Terminal Connector
- ② Status display
- ③ DIP switch for DMX address & End-Of-Line Resistor

1) Input & Output Terminal Connector



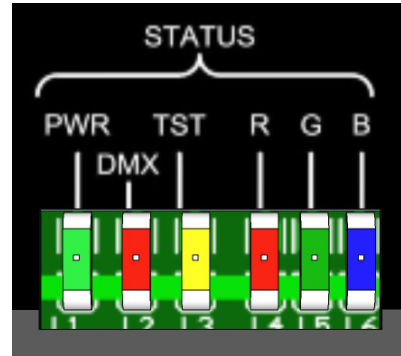
Typical Connectivity



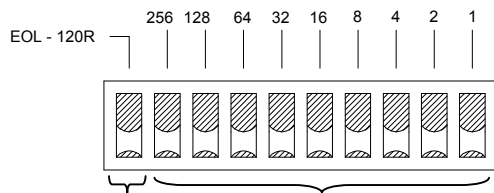
DMX 3-Channel Constant Voltage Drive Unit

2) Status Display

- PWR - When the LED is on, there is power to the device.
- DMX - When the LED is blinking, there is DMX signal received.
- TST - When the LED is on, the driver is in test mode. This mode is set when the DMX address is set to 0. In this mode, the output RGB is on in a cycle fashion.
- R - This LED follows the RED output's intensity.
- G - This LED follows the GREEN output's intensity.
- B - This LED follows the BLUE output's intensity.



3) 10-way DIP switches for DMX address & End-Of-Line Resistor



Set '0' or 'off'
When the switch is push down, it is set to '0' or 'off'



Set '1' or 'on'
When the switch is push up, it is set to '1' or 'on'

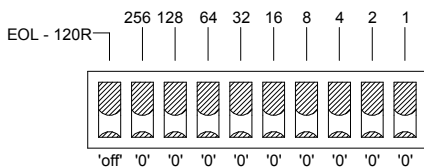
End of line resistor

This is to terminal this device with 120 ohm resistor as the last driver in the DMX line.

DMX address setting

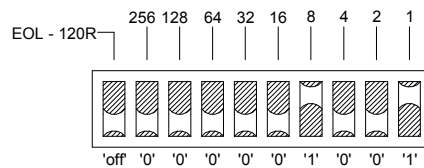
This is to set the DMX address that this driver should be assigned to.

Example:



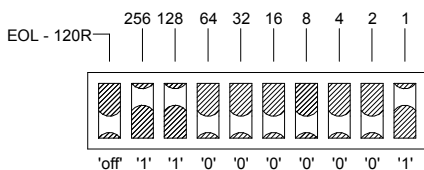
Example 1: DMX address = 0, EOL resistor = off

With DMX address set to 0, this driver is currently in test mode where the output is on 100% one by one in a sequence of RGB, respectively. The EOL is set off, thus this is not the last driver.



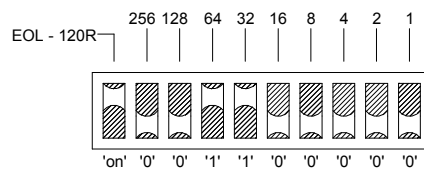
Example 2: DMX address = 9, EOL resistor = off

With DMX address set to $8+1 = 9$, the DMX address for Red is 9, Green is 10, Blue is 11, respectively. The driver will output based on DMX signal data. The EOL is set off, thus this is not the last driver.



Example 3: DMX address = 385, EOL resistor = off

With DMX address set to $256+128+1 = 385$, the DMX address for Red is 385, Green is 386, Blue is 387, respectively. The driver will output based on DMX signal data. The EOL is set off, thus this is not the last driver.



Example 4: DMX address = 96, EOL resistor = on

With DMX address set to $64+32 = 96$, the DMX address for Red is 96, Green is 97, Blue is 98, respectively. The driver will output based on DMX signal data. The EOL is set on, thus this is the last driver of the DMX actual line. **(Note: EOL should only be set 'on' for the last driver)**

DMX 3-Channel Constant Voltage Drive Unit

Specification:

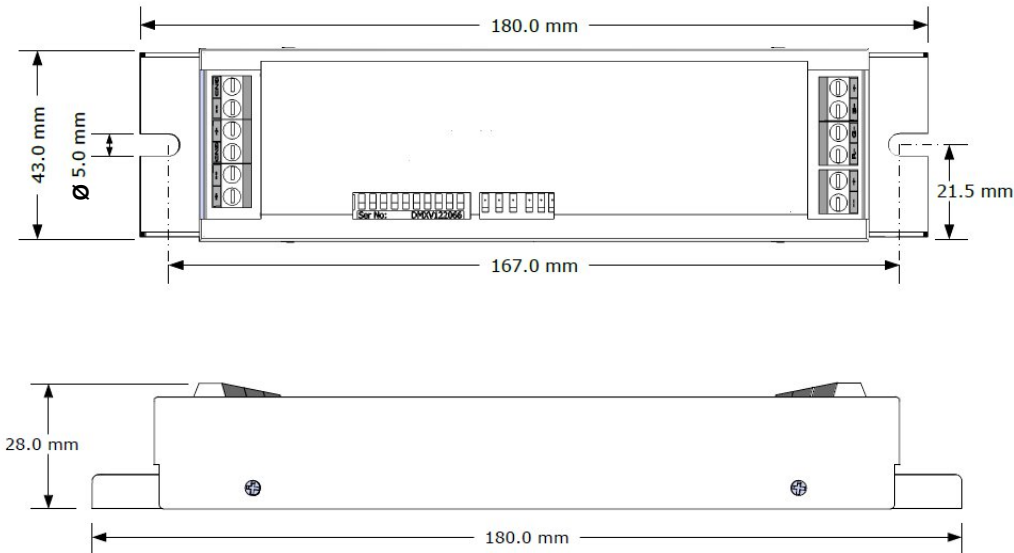
Interface: 2 x screw terminal for Power in (12 – 22 AWG)
 4 x screw terminal for LED fixture output (12 – 22 AWG)
 3 x screw terminal for DMX in (12 – 22 AWG)
 3 x screw terminal for DMX out (12 – 22 AWG)

General: USITT-DMX512-A DMX protocol standard
 DMX PWM frequency – 200Hz
 Maximum 5A per channel, with a maximum of 15A for the whole driver
 Wide input voltage range,
 - 6Vdc to 30Vdc (Model: DMX-450W-VPMD)
 - 6Vdc to 48Vdc (Model: DMX-720W-VPMD-HV)
 Allow up to 120 drivers to be connected in one single DMX line
 Operating temperature range from 0°C to 50°C, with a maximum temperature of 65°C



Power Dissipation (loss): 0.3 watt (idle) – no load
 @ Vin 30Vdc, 25°C 1.3 watt (typical) – typical façade load
 3.9 watt (max) – full load

Mechanical Specification:

Size: 180mm (L) x 43mm (W) x 28mm (H)
 Weight: approx. 210 g
 Mounting: 2 x M4 screw



Model List:

Model No.	Input Voltage	Max. Current / Channel	Max. Power Out	Certification
 DMX-450W-VPMD	6Vdc to 30Vdc	5A	450W @ 30Vdc, 5A/ch	CE Compliant
 DMX-720W-VPMD-HV	6Vdc to 48Vdc	5A	720W @ 48Vdc, 5A/ch	CE pending