

CBU-PWM4

Casambi 4 Channel Constant Voltage Dimmer

- // Bluetooth mesh controller for tunable white or RGBW LED tape
- // Wirelessly programmable via Casambi app, to create different coloured scenes and automations
- // Requires a separate non-dim power supply
- // Screw terminals
- // Can be provided with installation box if required
- // Compatible with all other Casambi devices, to form a network



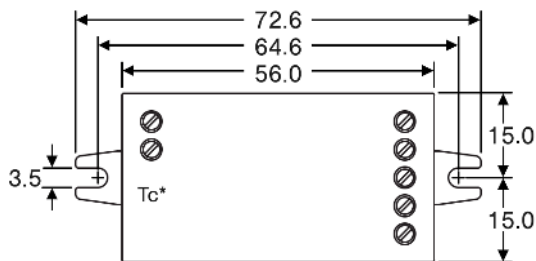
Construction

The CBU-PWM4 is a Casambi-enabled dimmer designed for constant voltage LED loads, including LED strips and constant voltage LED modules. It functions as a regulator between a 12-24v DC power supply and the LED load.

With the ability to manage up to four channels, the CBU-PWM4 is a perfect fit for RGBW and tunable white (TW) applications. The maximum total output current is 6A, which can be divided among the four channels as needed. The CBU-PWM4 is protected against short circuits, overvoltage, and overcurrent situations, but not against reverse polarity.

Different fixture profiles can be loaded on the PWM4 for different functionality.

Dimensional Drawings

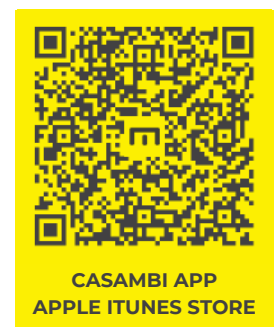
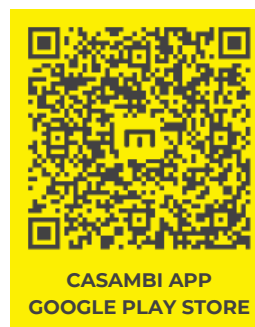


* Tc point is on bottom side

Product Code	Colour	Dimensions
CBU-PWM4	White	72.6mm x 30mm x 18mm

Technical Specifications	
Input Power	12-24v DC, max 6A
Max output power	144W @ 24v, 72W @ 12v. Output voltage is the same as input voltage
Dimming method	Pulse Width Modulation (PWM)
Radio operation frequencies	2400-2480 MHz
Wireless Range	Up to 30m inside, up to 50m outside.
Ambient temperature	-20...+45°C
Cable - solid/stranded	0,75 - 1,5 mm ² , strip length 7mm
Weight	23g
Ingress Protection	IP20

Casambi uses Bluetooth mesh network technology, so each Casambi unit, or Casambi Ready product, acts also as a repeater. Longer ranges can be achieved by using any Casambi unit as a repeater. Range is highly dependent on the surrounding and obstacles, such as walls and building materials.



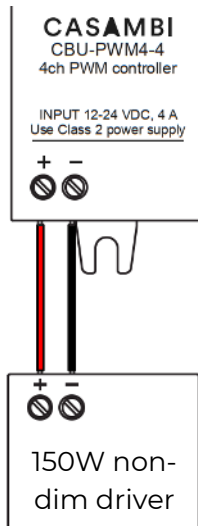
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Installation Instructions

CBU-PWM4, as any other Casambi product, should not be placed in a metal enclosure or next to large metal structures. Metal will effectively block all radio signals which are crucial to the operation of the product.

Input wiring

Connect a constant voltage 12-24 VDC double insulated power supply to the input connector. Make sure not to use a constant current LED driver and make sure that the cable polarity is correct.



If necessary a larger non-dim driver can provide power to more than one PWM4 at a time.

Output Wiring

The product has one shared positive output connector (+) and each of the four channels have its own negative connector (-). Connect the LED load wires accordingly. Please note, most LED strips will be permanently damaged if reverse polarity is applied.

DIAGRAMS

