

ATX LED

100% DC low voltage

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AL-DR12 2x 6 channel @ 360 mA LED Dimmer with Constant Current and 0-10v

[Product Description - AL-DR12](#)

This structured wiring panel module provides fused current limited power to LED lights. It has two 0-10v inputs for fixed or tunable white applications. It is housed in a familiar 10 inch media structured wiring mini rack.

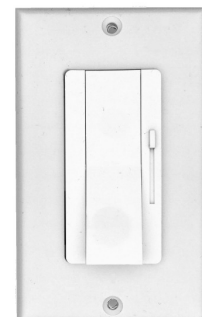
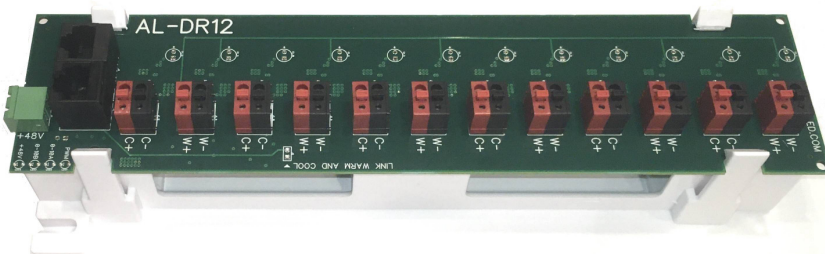
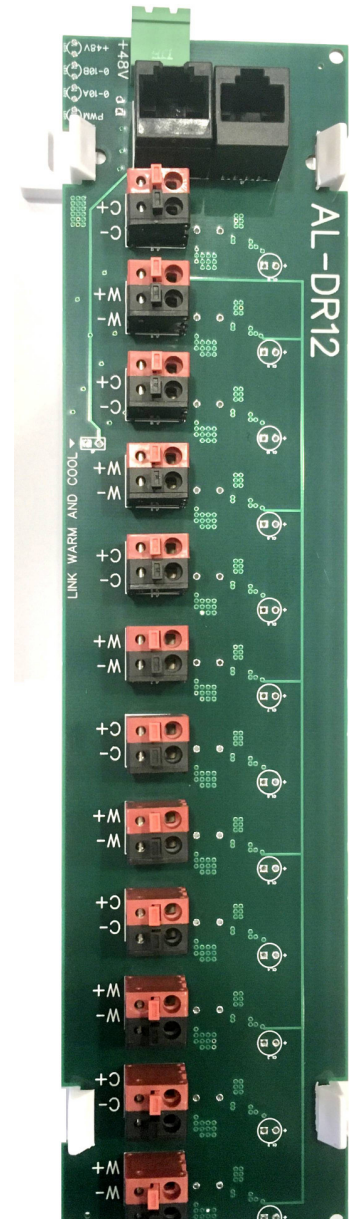
This Power Module has spring loaded quick connections for tool-less installation. Each DC output is limited to 360 milliamps and is dimmable. For Class 2 operations, use this with a 100 Watt power supply. Maximum power per port is 16 watts (360 mA @ 48v). All 12 ports can use the same dimming level – or two sets of 6 ports can have independent dimming and On/Off levels.

Dual 0-10v inputs allow dimming. Any 0-10v source can be used. All 12 can respond to one single (jumper inserted) or two 0-10v inputs can be used. (6 channels respond together). One recommended wall dimmer and 0-10v source is the AL-WS-010v wall switch with dual 0-10v outputs for either fixed color or tunable white projects.

For precise low dimming, a PWM input allows dimming down to 1%.

When a AL-WS-010v in 0-10v or PWM mode is used to control the AL-DR12, Alexa and Google support is available via the ZWD software package on our Pi based Hub.

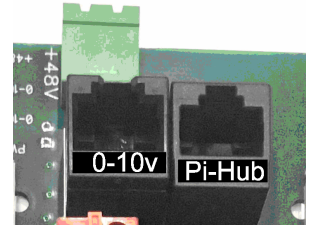
This is not a DALI device – Contact us for 12 port DALI drivers



AL-WS-010v wall switch

Specifications

Power source	5.0 mm connector or 4 pin mini-DIN connector Typically 48 to 51 volts
Output Loads	12 LED drivers with 360 mA each. 95% efficient, 18 volts to Vin-4 volts Class 2 when used with a 100 watt supply 360 mA standard, other currents available (660, 720)
Dimming Control	0-10v input WW 0-10v input CW (can jumper together) PWM for very low dimming
Dimming Range	Analog 5% to 100% PWM 1% to 5%
Analog Minimum level	Supported by the AL-WS-010v
Input voltage range	24v to 56 volts -
RJ45 Connectors (2)	RJ45 connectors for connectivity A - DALI Bus, PWM input and 0-10v inputs B – DALI bus and 48v Power
Protection	Reverse protection and static protection
Operating Temperature	0°C ~ 50°C
Size	255mm x 45mm x 65 mm
Hot Swap	Yes – can unplug LED loads while active
Fuse protection	1000 mA PTC on each output
PTC protection on RJ45	Current limiting



RJ45 A connector pinout (typically used with AL-WS-010v)

	Pin	Function
	1	DALI
	2	DALI
	3	0-10v #1
	4	NC
	5	NC
	6	0-10v #2
	7	PWM low dim
	8	Ground

RJ45 B connector pinout (typically used with AL-DALI-Pi)

	Pin	Function
	1	DALI
	2	DALI
	3	NC
	4	+48v
	5	+48v
	6	Gnd
	7	Gnd
	8	Gnd