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AL-WS-M48*

Decorator style

Constant Current

660mA / 1320 mA LED driver

with integrated switch

Supports external motion sensing PIR



Product Description - AL-WS-M48 wall switch

This switch operates just like any standard residential light switch – however it takes 44-54v DC instead of 120VAC, and directly drives up to 60 watts of Constant Current loads. This Decorator style switch in a standard residential style outline fits into any home, looks like any switch yet meets NEC Class 2 article 411 and 725 for low voltage applications.

Intended for stand alone, simple On/Off switching of CC loads. Jumper selectable 660 ma or 1320 mA outputs. Provides Hot Swap protection, the leading cause of driver / fixture failure when a technician works “hot”.

The Switch can connect to an external PIR sensor for motion sensing applications.

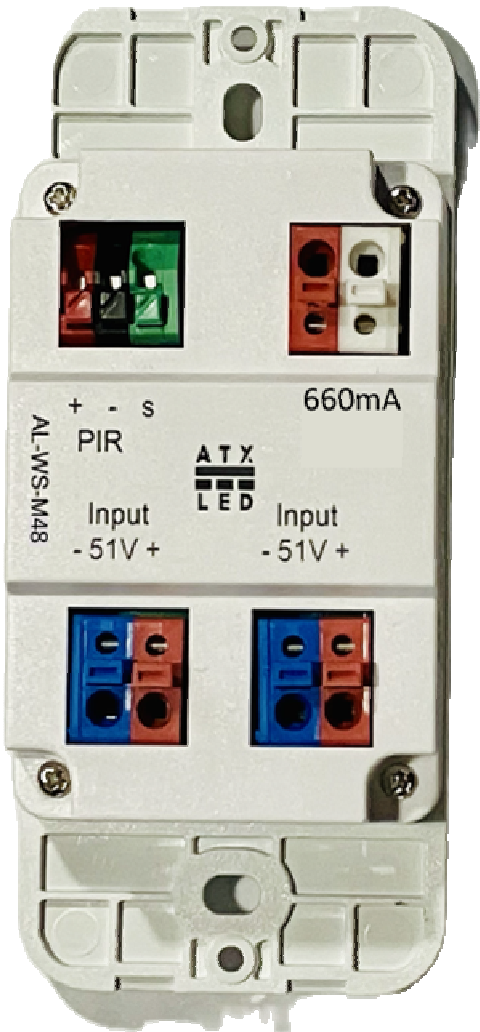
The switch can be connected via a jumper cable to an AL-WS-DR2 to support PIR motion sensing, 48v fan motor control, at up to 60 watts.

A status LED shows the On/Off state for quiet DC motors

* the AL-WS-M48 is a jumper option of the AL-WS-M24, a screwdriver is required to move the jumper to enable 48v operation.

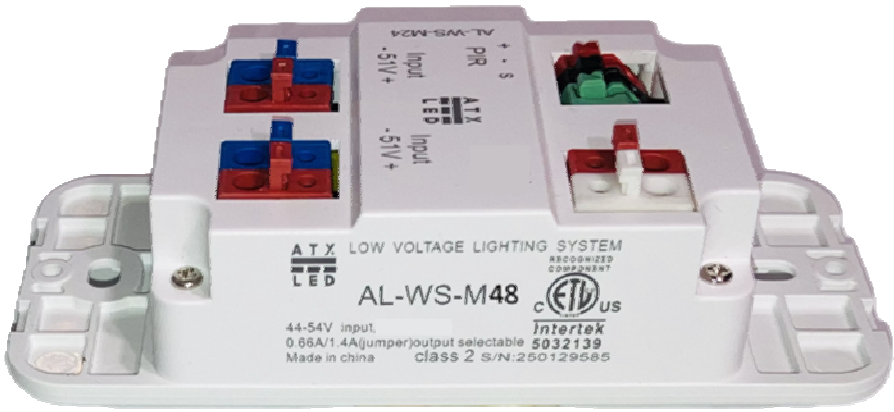
Specifications

Power source and pass-thru	Spring loaded connectors (2 pairs) for AWG 16-20 wire
Input Voltage	44-54vdc
Input Wattage	32 watts input for 30 watts output 42 watts input for 40 watts output
LED Output Current	660 mA from 6 to 44 volts 1320 mA from 6 to 44 volts (jumper option) Spring loaded connectors
Motion Sensor	12v supply to an external Motion Sensor selectable OD or 010v signal
Conversion efficiency	Over 95%
Protection	Reverse protection and static protection
Operating Temperature	0°C ~ 50°C
Size	108 x 42 mm Frame 70H x 34 D x 42 W mm Body
Dimming	Not provided
FCC and interference	All outputs are RF filtered for minimal interference
Hot Swap	Yes - can unplug and connect Loads with power applied without damage
AL-WS-DR2 upgrade	Can operate as a peripheral to an AL-WS-DR2 motion sensing 24v or 48v fan control
See Also	AL-WS-M24 in Constant Voltage mode



Ordering part numbers

Model	48v Jumper
AL-WS-M48	IN
AL-WS-M24	OUT



Wiring Example:

P023R6-Q2C 4 inch

P02106-Q2C 6 inch

