



L2-APR

PDM Accessory Power Regulator, 24-48Vin, 12Vout, 6W or 12W

Motion sensors and other smart devices require a small amount of power for their microcontrollers, backlights, wireless radios, and sensors. This standby power is supplied to all the Power Distribution Module sockets by the L2-APR Accessory Power Regulator. Now each device does not need to adapt the relatively high voltage PDM power source to the tiny voltages the sensitive microcontrollers natively require. If no drivers require standby power, you can omit the L2-APR or only insert one when you add a device that requires it. The L2-APR regulates and filters standby power and provides secondary isolation from dangerous AC mains power and power surges. Electronic circuits within zone control modules, some drivers, L2-CH16, and L2-ONF16 use the 12V power for their microcontrollers and also send 12V to their associated RJ45 Port connected devices. A motion sensor or electronic touchpad switch receive power through their L2-DM module from the L2-APR. The APR has a connector to power and communicate with the L2-ENCFAN2 enclosure fan control module. Each L2-APR-6W can deliver enough power for up to 16 L2-DM plugged into a PDM. Use the 12W L2-APR-12W when an L2-EGW Ethernet Gateway is attached to the PDM, or if a large number of field sensors or smart keypads are attached to the Ports requiring more than 6W total power. The L2-APR does not power modules plugged into adjacent PDMs but it does power the top communication bus port allowing L2-CH16, L2-ONF16, and L2-EGW to be powered simply by plugging them into position.

INPUTS

PDM Power Input Voltage	24-65VDC
Input Voltage Maximum	65VDC
Bottom Connectors	4 pin and 6 pin APR Socket (center of PDM)
Standby power	0.2W

OUTPUT

Total power output	12W, 6W, or 4W
Accessory bus voltage	12VDC +/-0.1V
Fan Connector	4 pin, 12VDC
Power OK	Green LED indicator
Short circuit Protection	Hiccup, automatic reset
Load rating (typical)	Up to 16 L2-SW, L2-DM with each port device < 0.020mA

RS485 CONTROL BUS

Unmanaged

PHYSICAL/ENVIRONMENTAL

Dimensions	0.8 x 1.8 x 0.8in (20 x 45 x 21mm)
Operating Temperature	+32°F to +122°F (0°C to +50°C)
Operating Humidity	5% to 95% Non-condensing
Rating	Dry Rated
Environmental	RoHS
Safety Certifications	CE, UL, FCC

WARRANTY

Duration 5 Years



ORDERING INSTRUCTIONS:

PART ID	MODEL	DESCRIPTION
15010020.0	L2-APR-4W	PDM Accessory Power Regulator, 24-48Vin, 12Vout, 4W
15010120.0	L2-APR-6W	PDM Accessory Power Regulator, 24-48Vin, 12Vout, 6W
15010220.0	L2-APR-12W	PDM Accessory Power Regulator, 24-48Vin, 12Vout, 12W