



Power over Ethernet Injector 48V 802.11af

The WAC-POE48V is an advanced 802.3af compliant device with Midspan Intelligent Detection. The device does not turn on power until it detects a valid POE signature from the devices attached downstream on the Ethernet cable. This protects against damage to non-compliant equipment which may be connected to the Ethernet cable. Because of this intelligent detection only an 802.3af compliant device can be powered with the WAC-POE48V. Because of its 48V inserter, the installer doesn't need to worry about voltage drops due to cable length. Typically in 100MB networks the maximum allowable CAT5 cable run is about 100 meters. This is not a limitation of the POE equipment but rather a limitation of the Ethernet standards. The WAC-POE48V is not a proprietary unit. It will function with any equipment which is fully compliant with the IEEE 802.3af POE standards. Note: The equipment being powered must be fully 802.3af compliant in order for the power supply to be able to sense the devices signature and apply power. Power is supplied on Ethernet pins 4/5 (V+) and 7/8 (GND).



Features:

- ▶ "Carrier class" power over ethernet system
- ▶ 48VDC auto ranging power supply/ inserter
- ▶ 802.3af Midspan Intelligent Detection - Extra Safety
- ▶ Built-in ethernet surge protection to prevent equipment damage
- ▶ Overload and short circuit protection
- ▶ Minimum cross talk and insertion loss
- ▶ Advanced switching technology – runs cool
- ▶ Powers clients which accept power on unused ethernet pins 4,5,7,8
- ▶ FCC and CE approved

Applications:

- ▶ Remote routers, access points and bridges
- ▶ Remote networking equipment
- ▶ IP Camera Systems
- ▶ 400MHz to 10GHz systems
- ▶ IP Phone systems

Specifications:

WAC-POE48V	
Input Voltage	100 - 240 VAC @ 47 - 63 MHz
Input Current	0.3A @ 120 VAC 0.2A @ 230VAC
Efficiency	70% Min
Output Voltage	48VDC @ 0.35A
Output Ripple	1% Max
Switching Frequency	200KHz Typ
Line Regulation	+/- 0.5%
Load Regulation	+/- 1%
Operating Temperature	-10 to +60 deg C
Operating Humidity	5% to 90% non condensing
Size (L x W x H)	3.25" x 3" x 1.5" (83 x 76 x 38mm)
Weight	5.2oz (147gm)

Ordering Information:

- ▶ **WAC-POE48V** Power over Ethernet Injector 48V 802.11af (For any 802.11af PoE Compatible Radios)