



PRODUCT OVERVIEW

Infomart's® PoweredEthernet™ PEM1600 series of power extraction modules, have compliance with the IEEE 802.3af Power-Over-Ethernet (PoE) standard, and are designed to extract power from CAT5 or higher ethernet cable when sourced from an IEEE 802.3af / 3at compliant Power Sourcing Equipment (PSE).

PEM1600, with its high efficiency DC-DC converter, provides a well-regulated low noise and low ripple output with in-built overload and output short-circuit protection; on board input ESD protection. It provides a quick, easy, and low cost method for Ethernet equipment manufacturers to "PoE enable" their equipment.

All variants of the PEM1600 deliver the full IEEE 802.3af specified 12.95W of power.

PEM1600 are featured with built-in frequency dithering. The output ripple is controlled within IEEE specifications.

PRODUCT FEATURES

- Fully IEEE 802.3af compliant
- 12.95 watt output load
- Wide input voltage (36V to 57V DC)
- 3.3V, 5V, 12V, 19V, 24V DC output voltage models
- Built-in input ESD protection
- Frequency dithering
- Adjustable output voltage
- RoHS compliant
- Stable efficiency even at high ambient
- Low output ripple and noise
- Overload and short circuit protection¹
- Minimal external components required
- 1500 Volt DC isolation (Input to Output)
- Compact dimension of 52mm x 13mm
- Low cost

¹ If maximum power is exceeded, the PEM1600 will operate in over current mode and will auto recover when the over load condition is removed.