

POE Supplies Include an Integral DC Injector

Gresham Power Electronics, a MIL and Commercial power conversion specialist, has introduced a flexible range of Power-over-Ethernet (POE) power supplies with an integral DC injector. Power-over-Ethernet provides a means to safely pass electrical power alongside data on Ethernet cabling. Power can come from a power supply within a POE-enabled networking device or from a device built for "injecting" power onto the Ethernet cabling, such as a Gresham Power-Over-Ethernet Power Supply.

Gresham's POE power supplies provide 1 Amp of either 48V or 55V DC output power as utilised by 10/100 Base-T transformers for connection to an IEEE 802.3 (10/100 Base-T) compatible device. An output RJ45 connector provides the 10/100 Base-T data and DC output voltage for connection to network peripherals.

Three models of POE power supplies are available from Gresham Power. Two universal AC input (90-264VAC, 47-63Hz) models are available, one for indoor use and the other for outdoor use (when installed in a suitable environmental enclosure). These two high efficiency devices have an output current of 1A at either 48 or 55 VDC. With free air convection cooling the POE adapters are very compact at just 160 x 63 x 32 mm and have full output protection including Over Current Protection, Short Circuit Protection and Over Voltage Protection. They meet FCC 15 & EN55022 class B requirements and are CE, UL & CSA ,CCC approved These power supplies have LED indicators for Power and Data "good", feature an impact resistant polycarbonate enclosure with a 3-prong IEC-320 C14 power inlet and have the option of being wall mounted. The model 0334B5555 is for indoor use and has an operating temperature range of -5 to +45C, while the 0525B5555 model is an outdoor unit with an operating temperature range of -40 to +70C and is capable of providing a 70W output if used indoors.

The third Gresham POE unit is also for outdoor use and has a DC input of 10.5 to 32VDC via a captive input cable. Also convection cooled It has an operating temperature range of -40°C to 70°C at full load. All other specifications and approvals are the same as the AC input versions.

Jake Moir, Managing Director of Gresham Power Electronics, comments; "Our Power-over-Ethernet power supplies provide a complete range of indoor and outdoor, AC and DC input power solutions for IT network installers to provide power to remote peripheral devices. This reduces installation cost and simplifies cabling requirements by not have to run power cables to remote locations and provides secure power from the host IT system's UPS or back-up generator, which can be vital in industrial applications."

Typical applications for Gresham POE adapters would be to provide power for network routers installed in remote locations, to support a small cluster of ports from one uplink cable, network webcams, network intercom/paging /public address systems and hallway speaker amplifiers, VoIP phones, wall clocks in rooms and

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hallways with time set using network time protocol, or wireless access points in process control systems.

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