

Enclosure & Rack-Mount Power Supplies

By Mel Berman

TDK-Lambda offers a wide range of enclosures and rack-mount power systems to suit many different applications. Whenever “hot-swap” power supplies (replaceable without turning off the power) are needed, an enclosure mounted rack is the most convenient method of implementation.



For example, TDK-Lambda’s FPS1000 Series are 1000-watt power supplies whose low profile and hot-swap capability make them especially suitable for N+1, redundant applications. The series is available with an I²C interface that monitors key functions – a requirement for remotely situated systems. Various output voltages are available including 12V, 24V, 32V, and 48V.

The FPS1000 Series accepts a wide range of input voltages – from 85 to 265 VAC – and contains active PFC (power factor correction) circuitry to meet EN61000-3-2 standards. It meets Class B EMI standards – radiated and conducted – with an earth leakage current of less than 1.1 milliamps at 265 VAC.

As many as three FPS1000 units fit into the 1U high 19-inch rack mount enclosure for a total system power of 3000 watts; individually the power supplies measure 1.61” H x 5” W x 11.4” L. Customers may specify front or rear AC input IEC320 receptacles. The 19-inch rack mountable enclosure measures 1.72” H x 19” W x 13.8” L.





To enhance system flexibility, the supplies come with an opto-coupled isolated remote on/off, AC fail, DC OK and over-temperature signals. The optional I²C interface provides read-back on output voltage, output current, internal temperature and alarm status. Up to eight supplies can share a single I²C bus address, which is a selectable setting within the enclosure.

The power supplies operate in temperatures ranging from 0°C to +50°C at full load and are cooled by internal fans. All models are RoHS compliant, carry the CE mark, and conform to UL60950-1 and EN60950-1 standards.

Information about the FPS1000 and many other enclosure/rack-mount power supplies can be obtained at TDK-Lambda's web site:

<http://us.tdk-lambda.com/lp/products/racks.htm>

About TDK-Lambda:

TDK-Lambda has been a major provider of power solutions for over 60 years. The company designs and manufactures a wide range of AC-DC and DC-DC power products and EMI filters for Industrial, Medical, Telecom, Datacom and Test & Measurement applications. TDK-Lambda is a subsidiary of the TDK Corporation, a leading global electronics company. For more information, please call TDK-Lambda at 619-575-4400 or 1-800-LAMBDA-4 (toll free), or visit our website at:

www.us.tdk-lambda.com/lp