1600 watt power supply features 92% efficiency with digital controls

TDK Corporation announces the new TDK-Lambda RFE1600 Series: a 1600W single-output AC-DC power supply in a low-profile package (less than 1U high) for standalone or distributed power architectures (DPA). These supplies are ideal for applications requiring reliable 12V, 24V, or 48VDC bulk power. The output voltage is user-adjustable, enabling the RFE1600 to be used in a variety of customized applications.

Operating efficiencies of up to 92% minimizes wasted heat dissipation and system cooling issues. Featuring a universal input of 85 to 265VAC with PFC, typical applications for the RFE1600 supplies include communications, factory automation, test/measurement, robotics and broadcast/RF amplifiers.

Models with a “/S” suffix include the optional I2C/PMBus serial communications port for remote control and monitoring.

These supplies can be used individually or up to 10 units can be connected in parallel for high power or N+1 redundant power systems, facilitated via built-in ORing FETs and active current share ports. Each power supply has two variable-speed cooling fans and the supplies can operate in temperatures ranging from -10 to +70°C. The RFE1600 has a high power density of 23.5W/in3 with dimensions of 12.6 x 3.35 x 1.61 inches.

Overvoltage, overcurrent and overtemperature protection are standard features,

and for system monitoring there are opto-isolated signals for DC-OK and AC-fail, along with a LED indicators for DC-OK or Fail conditions. Remote On/Off control is standard as is an auxiliary 12V/0.5A output.

As well as being EN55022 and FCC EMC compliant (achieving class B conducted, and Class A radiated emissions), the RFE1600 series are certified to UL/EN 60950-1, 2nd Edition, safety requirements and carries the CE Mark. Harmonic correction meets the EN61000-3-2 standard and the power supplies are backed by a three-year (3 yr) factory warranty.

These units are available now and economically priced at $690.00 each in 25 piece quantities. More information is available at TDK-Lambda Americas' website: http://www.us.tdk-lambda.com/lp/products/rfe-series.htm [1]

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