Front-end power supplies achieve up to 92% efficiency

TDK Corporation announces the expansion of its TDK-Lambda HFE1600 range of 1.6kW high-density, front end power supplies with the addition of a 32V model. Particularly well-suited for use in broadcast applications, the HFE1600-32 operates from a universal 85 to 265Vac input, and the high efficiency of up to 92% minimizes heat dissipation and power consumption thus meeting Climate Savers Computing efficiency standards. The HFE1600-32 is equally well-suited for use in applications including communications, servers, lasers, and process controls.

In addition to the 32V model, these supplies are available with other standard output voltages including 12V, 24V, and 48Vdc. The outputs are user adjustable to suit custom requirements. Each HFE1600 supply has two variable-speed cooling fans and can operate in temperatures ranging from -10°C to +70°C.

As with all models in the HFE1600 series, the HFE1600-32 AC-DC power supply can be used individually or up to 5 units can be mounted into a dedicated 1U rack delivering up to 8kW. To form a hot swap N+1 redundant power system, up to 10 units mounted in two racks can be configured in parallel with single wire current sharing. TDK-Lambda has also integrated a keying system to prevent misinsertion of modules into adjacent racks of differing voltage. Output voltage is programmable by resistance, external voltage or optional PMBus compatible I2C communication interface.

The HFE1600 hot swap front end power supplies comply with EN55022 and FCC Class A radiated and Class B conducted emissions and meet IEC61000-4 immunity. All models are safety approved to EN/IEC/UL 60950-1 edition 2 with CE mark and are backed by a three-year warranty.

The HFE1600 power supplies are available now and priced from $399.00 each in quantities of 500 units. For more information call TDK-Lambda Americas at 1-800-LAMBDA-4 or download the product datasheets from: http://www.us.tdk-lambda.com/lp/products/hfe-series.htm [1]

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