

Power Supply Product

Conduction Cooled 1000W Power Supplies Feature 60% Size Reduction

October 2015

TDK Corporation announces the introduction of TDK-Lambda's CPFE1000FI of baseplate/conduction-cooled 1000W power supplies. When compared to TDK-Lambda's MIL-STD rated CPFE1000F, the overall product size has been reduced by 60%. Capable of operating without forced-air cooling, the supplies are suited to outdoor, sealed enclosure, communications and harsh environment industrial applications, including RF amplifier and ground-based satellite equipment.

These single output power supplies operate with a wide universal input range of from 90 to 265VAC with PFC and are available with DC outputs of 12V, 28V (adjustable to 24V) or 48VDC. Due to its wide output adjustment range of +/- 20%, the output voltage can be set to match a variety of customer-specific applications. The outputs of these units can be connected in series or parallel for higher power applications. The units will operate at full load with baseplate temperatures of -40°C to +85°C.

Case style options for the CPFE1000FI include a U channel, with or without a cover, or as a PCB assembly measuring just 254mm x 107mm x 40mm. A coating option is also available for all models, providing protection against humidity and the ingress of contaminants. The PCB style is suitable for users requiring a fully certified solution, but do not have the expertise or time to develop a custom power module based solution.

A distinguishing feature of the CPFE1000F series is its internal I2C bus interface which can send operational parameters of the power supply to remote locations. These parameters include: output voltage, output current, baseplate temperature, serial number, model number and date-code. In addition, the I2C interface provides a means to turn the power supply On or Off from a remote site and receive DC Good and over-temperature signals. In addition to the I2C bus, traditional signals/controls are provided including an output good signal, remote on/off control, remote sense lines, active current-share, and an auxiliary output of 12V/20mA.

The CPFE1000FI power supplies are certified to IEC/UL/CSA/EN 60950-1 and are CE marked for the Low Voltage and RoHS2 Directives. The units also comply with EN 55011-B, EN 55022-B and FCC Class B for conducted emissions (Class A radiated), and meet the IEC 61000-4 immunity and IEC 61000-3-2 harmonic current standards.

More information can be obtained at the following TDK-Lambda Americas website, <http://www.us.tdk-lambda.com/lp/products/cpfe1000fi-series.htm>, or by calling 800-LAMBDA-4. Product availability for the CPFE1000FI series can be found via the link to TDK-Lambda's distributor network (see "Check Distributor Stock") at <http://www.us.tdk-lambda.com/lp/>.

Major applications

Outdoor, sealed enclosure, communications and harsh environment industrial equipment

Main features and benefits

- 60% smaller than CPFE1000F series
- Conduction cooled, no forced air cooling required
- I2C Interface
- Multiple case styles

Major specifications

Model		CPFE1000FI
Input Voltage	Vac	90 to 265Vac
Output Voltages	Vdc	12V, 24/28V or 48V
Output Power	W	Up to 1000W
Size	mm	254 x 112 x 44mm (U channel)
Safety Certifications	-	IEC/EN/UL/CSA 60950-1

About TDK Corporation

TDK Corporation is a leading electronics company based in Tokyo, Japan. It was established in 1935 to commercialize ferrite, a key material in electronic and magnetic products. TDK's portfolio includes electronic components, modules and systems* which are marketed under the product brands TDK and EPCOS, power supplies, magnetic application products as well as energy devices, flash memory application devices, and others. TDK focuses on demanding markets in the areas of information and communication technology and consumer, automotive and industrial electronics. The company has a network of design and manufacturing locations and sales offices in Asia, Europe, and in North and South America. In fiscal 2015, TDK posted total sales of USD 9.0 billion and employed about 88,000 people worldwide.

* The product portfolio includes ceramic, aluminum electrolytic and film capacitors, ferrites, inductors, high-frequency components such as surface acoustic wave (SAW) filter products and modules, piezo and protection components, and sensors.

About TDK-Lambda Corporation

TDK-Lambda Corporation, a group company of TDK Corporation, is a leading global power supply company providing highly reliable power supplies for industrial equipment worldwide. TDK-Lambda Corporation meets the various needs of customers with our entire range of activities, from research and

development through to manufacturing, sales, and service with bases in five key areas, covering Japan, Europe, America, China, and Asia.
For more details, please pay a visit to <http://www.tdk-lambda.com/>

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