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Power Supplies

TDK announces compact 1U 3500 W industrial rack mount supplies capable of providing hot swap redundant power

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TDK Corporation (TSE:6762) announces the TDK-Lambda HFE3500 rack mount industrial 3500 W power supply series. Each 1U high 19" rack can accommodate up to four power supplies to deliver 13300 W of bulk power or operate as a hot-swap redundant system. The internal ORing MOSFETs and current share function enable hot-swap operation and up to 12 HFE3500 units (three racks) can be connected in parallel. Applications include factory automation, Automatic Test Equipment (ATE), additive manufacturing, industrial printing, RF transmission, base stations and servers.

24 V and 48 V models are available with adjustment ranges of 24.0 - 27.6 and 48.0 - 55.2 V. Communication with the power supplies is possible through the built-in isolated PMBus™ (I2C) interface. AC fail, DC good, remote output adjustment, remote on/off and a 5V or 12V auxiliary output are fitted as standard. There is an option for dual ac input fuses.

The HFE3500 power supplies have an input range of 85 – 264 Vac with power derating to 2016 W below 170 Vac. The HFE3500-S1U/TB rack is fitted with input screw terminal blocks for a rugged connection. The power supply measures 107 x 40.1 x 330mm, and the rack 444.5 x 43.7 x 428mm. Cooling is provided by two internal, variable-speed fans. The HFE3500 modules' efficiency is 94 % at 230 Vac and 92 % at 115 Vac input.

Safety certifications include IEC/UL/CSA/EN62368-1 and EN/UL61010-1; the series also carries the CE and UKCA marking for the Low Voltage, EMC and RoHS Directives. The units comply with EN55011 Class B, EN55032 Class B, FCC Title 47, Chapter 1, Part 15.107 - Class B, VCCI Class B for conducted EMI, plus EN55011 Class A, EN55032 Class A, FCC Title 47, Chapter 1, Part 15.109 - Class A, and VCCI Class A for radiated EMI. The HFE series' input to output isolation is 3 kVac, the input to ground 2 kVac, and output to ground 500 Vdc. The models are backed by a five-year warranty.

Main applications

- Factory automation, ATE, additive manufacturing, industrial printing, RF transmission, base stations, and servers

Main features and benefits

- Internal ORing MOSFET and current share
- Up to 13300 W in 1U Rack

- PMBus (I2C) as standard
- External Output Voltage Adjustment

Type	HFE3500	
Nominal input voltage	Vac	100 - 240 (Nominal)
Output voltages	Vdc	24 or 48
Output power	W	3504 (Vin>180 Vac)
Efficiency	%	Up to 94
Size (W x H x D)	mm	107 x 40.1 x 330 (power supply) 444.5 x 43.7 x 428 (rack)
Safety certifications		IEC/UL/CSA/EN62368-1, EN/UL61010-1, CE mark

About TDK Corporation

TDK Corporation (TSE:6762) is a global technology company and innovation leader in the electronics industry, based in Tokyo, Japan. With the tagline “In Everything, Better” TDK aims to realize a better future across all aspects of life, industry, and society. For over 90 years, TDK has shaped the world from within; from the pioneering ferrite cores to cassette tapes that defined an era, to powering the digital age with advanced components, sensors, and batteries, leading the way towards a more sustainable future. United by TDK Venture Spirit, a start-up mentality built on visions, courage and mutual trust, TDK’s passionate team members around the globe pursue better—for ourselves, customers, partners, and the world. Today, the state-of-the-art technologies of TDK are in everything, from industrial applications, energy systems, electric vehicles, to smartphones and gaming, at the core of modern life. TDK’s comprehensive, innovative-driven portfolio includes cutting-edge passive components, sensors and sensor systems, power supplies, lithium-ion and solid-state batteries, magnetic heads, AI and enterprise software solutions, and more—featuring numerous market-leading products. These are marketed under the product brands TDK, EPCOS, InvenSense, Micronas, Tronics, TDK-Lambda, TDK SensEI, and ATL. Positioning the AI ecosystem as a key strategic area, TDK leverages its global network across the automotive, information and communication technology, and industrial equipment sectors to expand its business in a wide range of fields. In fiscal 2025, TDK posted total sales of USD 14.4 billion and employed about 105,000 people worldwide.

About TDK-Lambda Corporation

TDK-Lambda Corporation is a trusted, innovative leader and global supplier of highly reliable power conversion products for industrial and medical equipment worldwide. TDK-Lambda Corporation is aligned for fast responses to any customer need with R&D, manufacturing, sales and service locations in five key geographic regions, namely Japan, EMEA, Americas, China and ASEAN. For more details, please pay a visit to: www.jp.lambda.tdk.com/en/

Further information on the products can be found under <https://product.tdk.com/en/power/hfe>

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