

 Press Information

Power Supplies

TDK announces third-generation 1500 W wide-range AC-DC power modules

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TDK Corporation (TSE:6762) announces the introduction of the TDK-Lambda 1500 W rated PFE1500FB AC-DC power modules. This third-generation series accepts a wide 85 to 305 Vac input range, providing the ability to operate on a 277 Vac nominal input to power industrial, lighting, and building automation equipment. The module's metal baseplate allows operation where convection or forced air cooling is not feasible, with the ability to be mounted in a sealed outdoor enclosure or where liquid-cooling is preferred. The five-sided case also provides easier thermal management and lower radiated EMI.

The PFE1500FB features a PMBus interface with read/write capability, enabling remote monitoring and programming. This includes output voltage, overvoltage, overcurrent, and undervoltage adjustment. Modules can be connected in parallel for higher output current using the droop mode current share, which can also be programmed using the PMBus. Other signals and functions include remote on/off, a power good signal and a 9.5 - 14 V, 200 mA auxiliary voltage. The output voltage adjustment range is 38.4 - 57.6 with typical efficiencies of 92 % at 230 Vac input. The no-load power consumption is 2 W with the output voltage enable toggled to "off".

Overall dimensions for the power module are 157.2 x 89.9 x 15.2 mm (L x W x H) and the weight 540 g. Safety certifications include IEC/UL/CSA/EN62368-1 and carry the CE and UKCA marking for the Low Voltage, EMC and RoHS Directives. The units also comply with EN55032-A with external filtering, meeting the IEC 61000-4 immunity standards. The power supply has 3000 Vac input to output, 2500 Vac input to ground, and 1500 Vdc output to ground isolation. The series is available with a three-year warranty.

Main applications

- Test and measurement equipment, semiconductor fabrication, LED displays, lasers, RF power amplifiers.

Main features and benefits

- 92 % efficiency (typical)
- 85 to 305 Vac input
- 50/60/400Hz Input Line Frequency
- PMBus communications interface for remote programming and monitoring

Type		PFE1500FB-48
Nominal input	Vac	85 - 305
Output voltage	Vdc	38.4 - 57.6
Output power	W	1500
Efficiency	%	92
Size (L x W x H)	mm	157.2 x 89.9 x 15.2
Safety certifications		IEC/UL/CSA/EN62368-1, CE Mark and UKCA 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/system/files/dam/doc/product/power/switching-power/ac-dc-converter/catalog/pfe-fb_e.pdf

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