

 Press Information

Power Supplies

TDK expands medical and industrial AC-DC power supply series, offering high power in compact, low-noise package

September 16, 2025

TDK Corporation (TSE:6762) announces the addition of 1200 W rated models to the TDK-Lambda CUS-M series of 30 W to 1500 W AC-DC power supplies. These latest products have a 187 x 93 mm footprint and a low 42.5 mm profile. The CUS1200M features a variable speed fan with audible noise as low as 30 dBA at 20 % load and 42 dBA at full load. The power supplies can be used in a wide range of applications, including medical, dental, test and measurement, broadcast, and industrial equipment.

The series accepts an 85 to 265 Vac input, delivering full power at 90 Vac, and is available with 24 V, 36 V, and 48 V outputs. A 5 V 2 A standby voltage, remote on/off, remote sense and a power good signal are fitted as standard. With efficiencies of up to 95.5 %, internal heating is reduced, allowing reliable operation in the compact size. The off-load power consumption is typically <0.6 W when the supply is put into standby mode. The CUS1200M models can operate in ambient temperatures between -20 °C and +70 °C, derating linearly at high temperatures. The CUS1200M series has a five-year warranty.

The CUS1200M series has an input to output isolation of 4000 Vac (2 x MoPP), an input to ground isolation of 2000 Vac (1 x MoPP), and an output to ground isolation of 1500 Vac (1 x MoPP) for B and BF rated medical equipment. The leakage current is <250 µA, with a maximum operating, transportation, and storage altitude of 5000 m.

Safety certifications include IEC/EN/ES 60601-1 and IEC/EN/UL 62368-1 with CE/UKCA marking for the Low Voltage, EMC, and RoHS Directives. The units also comply with EN 55011-B and EN 55032-B conducted and radiated emissions, and meet the EN 61000-3-2 harmonics, IEC60601-1-2 Edition 4, and IEC 61000-4 immunity standards.

Main applications

- Medical, dental, test and measurement, broadcast, and industrial equipment

Main features and benefits

- Compact case size
- Acoustic noise is typically 30 dBA at 20 % load, 42 dBA at full load
- <0.250 mA leakage current
- Medical and industrial safety certifications

– Class B conducted and radiated EMI

Type		CUS1200M
Nominal input voltage	Vac	85 - 265
Output voltage	Vdc	24, 36 or 48
Maximum output power	W	1200
Efficiency	%	Up to 95.5
Safety certifications		IEC/EN/ES 60601-1 and IEC/EN/UL 62368-1
Size (L x W x H)	mm	187 x 93 x 42.5
Other features		5V 2A standby voltage, remote on/off and a power good signal
Warranty		Five years

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 [CUS800M, 1000M and 1200M Series Datasheet](#)

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