

 Press Information

## Power Supplies

# TDK announces high-power-density AC-DC power supply series for compact, efficient, and quiet medical and industrial system designs

October 27, 2026

TDK Corporation (TSE:6762) announces the introduction of the TDK-Lambda CUS1600M and CUS2000M AC-DC medical power supply series, delivering up to 2 kW and combining exceptionally high power density with up to 95% efficiency and low audible noise. The series helps designers create smaller, more energy-efficient, and quieter medical, industrial, and life science equipment.

The new power supplies provide a power density of up to 33.3 W/cu in a compact 203.2 x 114.3 x 42.5 mm package. This capability enables more power from a given volume, supporting smaller end-equipment designs in space-constrained medical and laboratory environments.

Delivering 1600 W or 2000 W with efficiencies up to 95%, the CUS1600M and CUS2000M can reduce power consumption and associated carbon emissions, while helping to lower through-life operating costs.

The CUS1600M and CUS2000M AC-DC series is also exceptionally quiet, with variable-speed fan control achieving audible noise as low as 35 dBA. Noise is an important consideration in hospital environments, where cumulative noise from devices such as ventilators and respirators, monitoring systems, pumps, and infusion devices can disrupt patient sleep and significantly impact recovery and wellbeing.

In addition, the series is certified to IEC 60601-1 and IEC 62368-1 with 2 × MOPP isolation and has a leakage current of less than 0.250 mA, helping to simplify system compliance, reduce product development times, and accelerate time-to-market.

The series meets Class B conducted and radiated EMI requirements to EN55032, EN55011-B, and FCC-B, helping to simplify system EMC compliance. In addition, remote sense, remote on/off, a Power Good signal, and a 5 V/2 A standby output are provided as standard, supporting easier system integration and power management.

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### Main applications

- Medical imaging, medical aesthetic and surgical equipment, clinical care, in-vitro diagnostics, analytical instrumentation, laboratory automation, semiconductor equipment, and test and measurement.

### Main features and benefits

- High power density in a compact package
- High efficiency and reduced power consumption

- Low audible noise
- Medical safety compliance and low leakage current

| Type                  |         | CUS1600M/CUS2000M        |
|-----------------------|---------|--------------------------|
| Output power          | W       | 1600 or 2000             |
| Efficiency            | %       | Up to 95                 |
| Power density         | W/cu in | Up to 33.3 (CUS2000M)    |
| Audible noise         | dBA     | As low as 35             |
| Size (W x H x D)      | mm      | 203.2 x 114.3 x 42.5     |
| Safety certifications |         | IEC 60601-1; IEC 62368-1 |
| Isolation level       |         | 2 × MOPP                 |

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## 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, InvenSense, Micronas, Tronics, TDK-Lambda, TDK SenseEI, 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 2026, TDK posted total sales of USD 16.6 billion and employed about 107,000 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/](http://www.jp.lambda.tdk.com/en/)

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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/cus1600-2000m\\_e.pdf](https://product.tdk.com/system/files/dam/doc/product/power/switching-power/ac-dc-converter/catalog/cus1600-2000m_e.pdf)

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