

 Press Information

Power Supplies

TDK introduces programmable DIN-rail mount isolated DC-DC converters with 120 W and 240 W outputs and wide conversion ratios

August 11, 2026

TDK Corporation (TSE:6762) announces the introduction of the TDK-Lambda DDSM 120 W and 240 W programmable DC-DC converters. These products feature a wide input and output voltage range with an isolated design. The DDSM series also offers remote control and real time monitoring via Modbus over USB using the PowerCMC control and monitoring center. In addition, a digital display shows the device settings, system alarms, and status information, with the ability to be operated manually via three push buttons on the front panel.

The DDSM series was developed to offer a wide conversion ratio. Its many applications include improved voltage stability over long cable lengths, providing a higher (step-up) voltage to support system loading, offering an independent isolated voltage for Power-over-Ethernet (PoE) requirements and supporting loads requiring special operating voltages. The wide input and output ranges can assist inventory management, reducing the need to stock multiple part numbers.

The DDSM converters accept a nominal 12 to 48 V input (maximum 10.8 to 52.8 V) and can deliver a nominal output range of 5 to 55 V (4.7 to 57 V maximum). Operating efficiency at standard operation is up to 93.0 %, which reduces internal heating losses and saves energy when in standby mode. The nominal output current is 5 A for the 120 W model and 10 A for the 240 W model. A 24 V/1 A DC-OK signal is accessible from the front panel. The DDSM measures 40.0 mm wide, 116.6 mm deep and 115.0 mm high, weighing just 500 g.

Safety certification is to IEC/EN/UL/CSA 61010-1, 61010-2-201 and IEC/EN/UL/CSA, 62368-1 (Ed. 3). The series is CE / UKCA marked to the Low Voltage, EMC and RoHS EU Directives and UK regulations. The models meet EN 55032-B radiated and conducted emissions and EN 61000-6 immunity standards.

Main applications

- Factory automation, general purpose industrial, semiconductor fabrication, renewable power generation, telecommunications, and test and measurement.

Main features and benefits

- Wide input & output ranges
- High efficiency and low stand-by losses
- Digital control and monitoring

– Front panel display and programming

Type		DDSM
Input voltage range	Vdc	10.8 to 52.8
Output voltages	Vdc	4.7 to 57
Maximum output power	W	120 or 240
Efficiency	%	Up to 93.0
Isolation	Vdc	Input-to-output: 2200
Size (W x D x H)	mm	40.0 x 116.6 x 115.0
Safety certifications		IEC/EN/UL/CSA, 62368-1 (Ed.3), IEC/EN/UL/CSA 61010-1, 61010-2-201

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/

Further information on the products can be found under product.tdk.com/system/files/dam/doc/product/power/switching-power/dc-dc-converter/catalog/ddsm_e.pdf

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