

## Power Supply Product

# Medical / ITE 250W Power Supplies Comply with DoE Level VI and EU Tier 2 v5 Standards

January 2019

TDK Corporation (TSE 6762) announces the introduction of the TDK-Lambda DTM250-D external AC-DC power supplies. This series meets the stringent DoE Level VI and EU Tier 2 v5 standards for both average efficiency and off-load power. The DTM250-D is certified to the medical IEC 60601-1 and industrial IEC 60950-1 standards, making it suitable for higher power medical, dental, test, measurement and industrial portable equipment.

The DTM250-D is housed in a rugged, compact, vent-free enclosure measuring 90 x 200 x 45mm (W x L x H). AC is applied through the standard IEC 60320-C14 (3-prong) socket and the output DC cable is fitted with a Molex Mini Fit output connector as standard, with other connector types available upon request. The adapters also feature over-voltage and over-current protection.

Accepting a 90 to 264VAC input, the 250W rated adapters are available with 12V, 19V, 24V, 28V, 36V, 48V and 54V outputs and can operate in ambient temperatures ranging from -20 to +60°C (derating linearly to 50% load from 40 to 60°C). In satisfying the DoE Level VI and EU Tier 2 v5 requirements the series has an average efficiency of greater than 89% and an off-load power consumption of less than 0.15W.

The DTM250-D series has been certified to IEC/ES/CSA/EN 60601-1, IEC/UL/CSA/EN 60950-1 and carries the CE mark for the Low Voltage, EMC and RoHS Directives. All models meet IEC 60601-1-2 Ed4:2014, EN 55011-B, EN 55032-B, FCC Part 15 Class B, FCC Part 18 Class B emissions and immunity standards. Touch current is <100µA, input to ground isolation is 1,500Vac (1 x MoPP), input to output 4,000Vac (2 x MoPP) and output to ground 1,500VAC (1 x MoPP). All models are suitable for B and BF rated equipment with operation up to an altitude of 5,000m.

More information can be obtained at the following TDK-Lambda Americas website, <http://www.us.tdk-lambda.com/lp/products/dt-c-series.htm>, or by calling 800-LAMBDA-4. Product availability for the DTM250-D series can be found via the link to TDK-Lambda's distributor network (see "Check Distributor Stock to Buy") at <http://www.us.tdk-lambda.com/lp/>.

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### Major applications

Higher power medical, dental, test, measurement and industrial portable equipment.

### Main features and benefits

- DoE Level VI & EU Tier 2 v5 Efficiency Compliant
- Medical & ITE Certifications
- < 0.15W Off-load Power Draw
- Meets IEC60601-1-2 Ed4 Immunity
- Suitable for B & BF Rated Equipment

**Major specifications**

Model		DTM250-D
Input voltage range	Vac	90 to 264Vac
Output voltages	Vdc	12, 19, 24, 28, 36, 48 and 54V
Output power	W	250W
Efficiency Level	-	Compliant to DoE Level VI and EU Tier 2 v5
Safety	-	IEC/ES/CSA/EN 60601-1 and IEC/UL/CSA/EN 60950-1
Size (W x L x H)	mm	90 x 200 x 45 mm

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**About TDK Corporation**

TDK Corporation is a leading electronics company based in Tokyo, Japan. It was established in 1935 to commercialize ferrite, a key material in electronic and magnetic products. TDK's portfolio features passive components such as ceramic, aluminium electrolytic and film capacitors, and magnetics, high-frequency, and piezo and protection devices. The product spectrum also includes sensors and sensor systems such as temperature and pressure, magnetic, and MEMS sensors. In addition, TDK provides power supplies and energy devices, magnetic heads and more. These products are marketed under the product brands TDK, EPCOS, InvenSense, Micronas, Tronics and TDK-Lambda. TDK focuses on demanding markets in the areas of information and communication technology and automotive, industrial and consumer electronics. The company has a network of design and manufacturing locations and sales offices in Asia, Europe, and in North and South America. In fiscal 2018, TDK posted total sales of USD 12 billion and employed about 103,000 people worldwide.

**About TDK-Lambda Corporation**

TDK-Lambda Corporation, a group company of TDK Corporation, is a leading global power supply company providing highly reliable power supplies for industrial equipment worldwide. TDK-Lambda Corporation meets the various needs of customers with our entire range of activities, from research and development through to manufacturing, sales, and service with bases in five key areas, covering Japan, Europe, America, China, and Asia.

For more details, please pay a visit to <http://www.tdk-lambda.com/>

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