

Power Supply Product

40 to 65W Medical External Power Supplies are Compliant to DoE Level VI and EU Tier 2 v5 Efficiency Standards

June 2018

TDK Corporation announces the introduction of the TDK-Lambda medical certified DTM65-D external power supplies. This series meets the stringent DoE Level VI and EU Tier 2 v5 standards for efficiency and off-load power. The DTM65-D is certified to the medical IEC 60601-1 standards, making it suitable for a variety of hospital, dental and healthcare applications, including diagnostic and monitoring equipment.

The convection-cooled DTM65-D is housed in a rugged, vent-free enclosure, measuring 132mm x 69mm x 40mm (L x W x H). AC is applied through the standard IEC 60320-C14 (3-prong) socket and the output DC cable is fitted with a 4-pin Power-DIN 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 40 to 65W adapters are available with 5V, 12V, 15V, 19V, 24V, 28V, 36V and 48V outputs and can operate in ambient temperatures ranging from -20 to +60°C (derating linearly to 50% load from 40 to 60°C). In addition to satisfying DoE Level VI and EU Tier 2 v5 requirements with an average efficiency of greater than 89% (>87.3% for the 5V model), the power supplies have an off-load power consumption of less than 0.15W.

The DTM65-D series has been certified to ANSI/AAMI ES 60601-1, CAN/CSA-C22.2 No. 60601-1-08, IEC/EN 60601-1, and carries the CE mark for the Low Voltage, EMC and RoHS2 Directives. All models meet IEC60601-1-2 Ed4:2014, EN55011 Class B, FCC Part 18 Class B emissions and immunity standards. Input to ground isolation is 1,500Vac (1 x MoPP), input to output 4,000Vac (2 x MoPP), output to ground 1,500Vac (1 x MoPP), with a touch current of <100µA and a leakage current of <300µA. All models are suitable for BF rated equipment and can be operated 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 DTM65-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/>.

Major applications

Healthcare, dental, medical diagnostic and monitoring equipment

Main features and benefits

- DoE Level VI & EU Tier 2 v5 Efficiency Compliant
- Medical Certifications
- Suitable for BF Rated Equipment
- < 0.15W Off-load Power Consumption
- <100µA Touch Current

Major specifications

Model		DTM65-D
Input voltage range	Vac	90 to 264Vac
Output voltages	Vdc	5, 12, 15, 19, 24, 28, 36 and 48V
Output power	W	5V: 40W, 12-15V: 60W, 19-48V: 65W
Efficiency Level	°C	Compliant to DoE Level VI and EU Tier 2 v5
Safety	-	ANSI/AAMI ES60601-1, IEC/EN60601-1, CAN/CSA-C22.2 No. 60601-1:14, CE mark
Size (L x W x H)	mm	160 x 60 x 31

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, aluminum 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, Micronas, Tronics and TDK-Lambda. TDK's further main product groups include magnetic application products, energy devices, and flash memory application devices. 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 <https://www.tdk-lambda.com/en/>

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