

Power Supply Product

300W External Power Supplies Have Class I or II Inputs and Level VI Efficiency

January 2017

TDK Corporation announces the introduction of the TDK-Lambda medical and ITE certified DTM300-D external power supplies. This series offers a choice of class I or class II (no ground connection) inputs and meets the stringent Level VI DoE standards for efficiency and off-load power. The DTM300-D is certified to both the medical IEC 60601-1 and ITE IEC 60950-1 standards, making it suitable for a variety of power hungry medical, industrial, and test and measurement applications.

The convection-cooled DTM300-D is housed in a rugged, vent-free enclosure, measuring 222mm x 112mm x 45mm (LxWxH). AC is applied using the standard IEC 60320-C14 (3-prong) or 60320-C18 (2-prong) connector and DC provided through a ten-pin Molex Mini-Fit® connector. Other connectors are available upon request. The adapters also feature over-voltage and over-current protection.

Accepting a 90 to 264VAC input, the 300W adapters are available with 12V, 19V, 24V, 28V, 48V and 54V outputs and can operate in ambient temperatures ranging from -30 to +60°C (derating linearly to 50% load from 40 to 60°C). In addition to satisfying DoE Level VI requirements with an average efficiency of greater than 88%, the power supplies have an off-load power draw of less than 0.5W.

The DTM300 has been certified to IEC/ES/CSA/EN60601-1, IEC/UL/CSA/EN60950-1 and carries the CE mark for the Low Voltage, EMC and RoHS2 Directives. All models meet EN60601-2, IEC60601-1-2 Ed4:2014, EN55011/EN55022 Class B, EN55024 Class B, FCC Part 15 Class B, FCC Part 18 Class B emissions and immunity standards. Input to output isolation is 4,000Vac (2 x MoPP), with a touch current of <100µA. Class I models are suitable for BF rated equipment with an output to ground isolation of 1,500Vac.

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 DTM300-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

Medical diagnostic, imaging and monitoring equipment
Industrial and test and measurement

Main features and benefits

- Compliant with DoE level VI requirements
- < 0.5W off-load power
- Medical and ITE certifications
- Class I or Class II (no ground connection) inputs

Major specifications

Model		DTM300-D
Input Voltage	Vac	90 to 264Vac
Output Voltages	Vdc	12V, 19V, 24V, 28V, 48V & 54V
Output Power	W	300W
Safety Certifications	-	IEC/ES/CSA/EN60601-1, IEC/UL/CSA/EN60950-1
Size (H x W x L)	mm	45 x 112 x 222mm

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 includes electronic components, modules and systems* marketed under the product brands TDK and EPCOS, power supplies, magnetic application products as well as energy devices, flash memory application devices, and others. TDK focuses on demanding markets in the areas of information and communication technology and consumer, automotive and industrial 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 2016, TDK posted total sales of USD 10.2 billion and employed about 92,000 people worldwide.

* The product portfolio includes ceramic, aluminum electrolytic and film capacitors, ferrites, inductors, high-frequency components such as surface acoustic wave (SAW) filter products and modules, piezo and protection components, and sensors.

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/>

Contacts for regional media

Region	Contact	Phone	Mail
Americas	Tom Tillman TDK-Lambda Americas	(619) 575 4400	tom.tillman@us.tdk-lambda.com