

Power Supply Product

Class II, Level VI External 110W Rated Power Supplies have Home Medical and ITE Safety Certifications

December 2018

TDK Corporation (TSE 6762) announces the introduction of the TDK-Lambda medical and Industrial certified DTM110-C8 Class II (no earth ground needed) external power supplies. This series meets the stringent DoE Level VI and EU Tier 2 v5 standards for efficiency and off-load power. The DTM110-C8 is certified to the medical IEC 60601-1 and industrial IEC 60950-1 standards, making it suitable for a variety of hospital and home healthcare applications, plus industrial test, measurement and portable equipment.

The DTM110-C8 is housed in a rugged, IP41 rated, vent-free enclosure measuring 63mm x 140mm x 33mm (W x L x H). AC is applied through the standard IEC 60320-C8 (2-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 105 to 110W adapters are available with 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%, the power supplies have an off-load power consumption of less than 0.15W.

The DTM110-C8 series has been certified to IEC/ES/CSA/EN 60601-1, IEC 60601-1-11, 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, EN55011-B, EN55032-B, FCC Part 15 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) and the touch current is <100µA. 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 DTM110-C8 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

Home healthcare, hospital, test, measurement and portable equipment.

Main features and benefits

- Medical, Home Healthcare & Industrial Certification
- DoE Level VI & EU Tier 2 v5 Compliant
- < 0.15W Off-load Power Consumption
- Class II Construction (no ground wire)

Major specifications

Model		DTM110-C8
Input voltage range	Vac	90 to 264Vac
Output voltages	Vdc	12, 15, 19, 24, 28, 36 and 48V
Output power	W	12V: 105W, 15 to 48V: 110W
Efficiency Level	-	Compliant to DoE Level VI and EU Tier 2 v5
Safety	-	IEC/ES/CSA/EN 60601-1, IEC 60601-1-11, IEC/UL/CSA/EN 60950-1
Size (W x L x H)	mm	63 x 140 x 33

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/>

Contacts for regional media

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