

Power Supply Product

Class I and II 500W Configurable Medical Power Supplies Require Low Airflow and are Curve B EMI Compliant

December 2017

TDK Corporation announces the introduction of the XMS500 series of AC-DC power supplies, rated at 500W output power, with a Class I and Class II (no earth ground connection) construction. The series conforms to curve B conducted and radiated emissions, with a 6dB margin and has a low leakage current of less than 150 μ A. The high operating efficiency and mechanical design enables the XMS500 to operate at full load with airflow rates of just 1m/s, reducing audible noise. Applications include home healthcare, hospital, imaging and clinical diagnostic systems in addition to industrial, test and measurement and communications equipment.

Designed as a configurable product, engineers can select from multiple standard options, to optimize both system performance and cost, without incurring development charges or minimum purchase quantities. The options include case styles (including an internal low speed fan), a choice of standby voltage, a 12V fixed or variable speed fan supply, remote on/off, AC fail and single or dual input fuses. 12V, 24V, 36V or 48V nominal outputs are offered, with other voltages upon request. The product has a five year warranty.

The XMS500 accepts a 90 to 264Vac input, withstanding 300Vac for five seconds and can operate in ambient temperatures of up to +70°C, derating linearly above 50°C by 2.5% per °C. The open frame version measures 102 x 180 x 37mm and the U-channel 107 x 180 x 39.5mm. The low profile allows installation in systems where space is limited.

All models are certified to IEC/EN/UL/CSA 60601-1 and IEC/EN/UL/CSA 60950-1 with CE marking for the Low Voltage, EMC and RoHS2 Directives. The series is compliant to EN 55011-B, EN 55032-B conducted and radiated emissions (for both Class I and II), EN 61000-3-2 harmonics, IEC 60601-1-2 Edition 4, and IEC 61000-4 immunity standards.

Input to output isolation is 4,000Vac (2 x MoPP), input to ground isolation 1,500Vac (1 x MoPP) and output to ground isolation is 1,500Vac (1 x MoPP) for suitability in B and BF rated equipment.

More information can be obtained at the following TDK-Lambda Americas website, <http://www.us.tdk-lambda.com/lp/products/xms-series.htm>, or by calling 800-LAMBDA-4.

Major applications

Home healthcare, hospital, imaging and clinical diagnostic systems in addition to industrial, test and measurement and communications equipment

Main features and benefits

- ITE & Medical Certifications (2 x MOPP)
- Class I and Class II operation
- Compact 4 x 7.1" Footprint
- Suitable for B and BF Rated Equipment
- Five year warranty

Major specifications

Model		XMS500
Input voltage range	Vac	90 to 264Vac
Output voltages	Vdc	12, 24, 36 and 48V
Output power	W	500W
Operating temperature	°C	0 to +70°C. (Derating linearly to 50% load above 50°C)
Safety	-	IEC/EN/UL/CSA 60601-1 and IEC/EN/UL/CSA 60950-1
Size (W x L x H)	mm	102 x 180 x 37 mm (open frame version)
Warranty	-	Five Years

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 passive components, such as ceramic, aluminum electrolytic and film capacitors, ferrites and inductors, high-frequency products, and piezo and protection components, as well as sensors and sensor systems and power supplies. 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 2017, TDK posted total sales of USD 10.5 billion and employed about 100,000 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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