

Power Supply Product

7-Year Warranty 1500W Modular Power Supply has Full MoPPs isolation and Lowest Acoustical Noise

November 2016

TDK Corporation announces the introduction of the TDK-Lambda brand QM7 power supply with a 7-year warranty. The series has full medical MoPPs isolation and the lowest acoustic noise currently on the market for a 1500W modular product. This continues TDK-Lambda's 37 year legacy in modular power supplies which began in 1979 with the launch of the ML series - a world first. The QM7, having both medical and ITE safety certifications, has been designed to fulfill the needs of a large number of markets ranging from BF rated equipment, test, measurement, industrial and communications applications.

Accepting a wide range 90 to 264Vac, 47-440Hz input, the QM7 will deliver 1200W at low line and 1500W with a 150-264Vac input. With its modular construction, the series can be configured using a simple on-line configurator to provide 1 to 16 independently regulated outputs and include DC Good and remote on/off capabilities. Module output voltages range from 2.8V to 52.8V and output powers from 300W to 1200W. Modules with higher voltages will be introduced later. A further subset of option modules provides an AC Fail signal, standby voltages (up to 12V 2A) and global remote on/off. Overall case dimensions for the QM7 are 176 x 63.3 x 270mm (W x H x D).

The QM7 will operate in ambient temperatures of -20 to +70°C, with output power and output current linearly derating above 50°C to 50% at 70°C. With efficiencies of up to 91%, less internal heat is generated allowing the use of low speed cooling fans. This reduces audible noise down to 44.3 dBA at room temperature - measured in accordance with BS EN ISO 3744:2010. Lower airflow speeds also significantly reduces the ingress of dirt and other contaminants, improving product reliability.

The power supply has 4,000Vac (2 x MoPPs) input to output, 1,500Vac (1 x MoPPs) input to ground and 1,500Vac (1 x MoPPs) output to ground isolation. All models are certified to IEC/EN/UL/CSA 60601-1, ANSI/AAMI ES 60601-1, IEC/EN/UL/CSA 60950-1 and are designed to meet IEC/EN61010-1 with CE marking for the Low Voltage and RoHS2 Directives. Earth leakage current is less than 300µA for the QM7, and complies with the EN61000-6-3:2007 and EN60601-1-2:2015 (curve B conducted and radiated) emission standards. The units also meet the EN60601-1-2 and EN61000-6-2 immunity standards and are designed and manufactured under the control of ISO9001 and ISO13485 (including risk management).

More information can be obtained at the following TDK-Lambda Americas website, <http://www.us.tdk-lambda.com/lp/products/qm-series.htm>, or by calling 800-LAMBDA-4. Products can be configured using the "Product Quick Finder" at <http://www.us.tdk-lambda.com/lp/>.

Major applications

Medical, including BF rated equipment, test and measurement, industrial and communications

Main features and benefits

- Full medical isolation (MOPP), suitable for B and BF-rated equipment
- Low Speed, low audible noise fans
- Up to 16 outputs
- 7 year warranty

Major specifications

Model		QM7
Input voltage range	Vac	90 – 264Vac
Output voltages	Vdc	2.8 – 52.8Vdc
Maximum output power	W	1500W
Efficiency	%	Up to 91%
Safety Certifications	-	IEC/EN/UL/CSA 60601-1, ANSI/AAMI ES 60601-1, IEC/EN/UL/CSA 60950-1. Designed to meet IEC/EN61010-1
Size (W x H x L)	mm	176 x 63.3 x 270mm
Warranty	-	Seven 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 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/>

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