

Power Supply Product

700 to 1200W Modular Power Supplies Have BF Ready Isolation and Low Acoustic Noise

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TDK Corporation announces the introduction of the QM5 modular power supplies, rated at 700 to 1200W. These models are available with up to 12 outputs, have BF ready isolation and low acoustic noise. With medical and industrial safety certifications, the power supplies are suitable for use in medical, test and measurement, communications and broadcast equipment.

Accepting a wide range 90 to 264Vac, 47-440Hz input, the QM5 can deliver 700W at low line and 1200W with a 150-264Vac input. With its modular construction, the series can be configured using a simple on-line configurator to provide 1 to 12 independently regulated outputs and include individual output good signal and remote on/off functions. Module output voltages range from 2.8V to 52.8V and output powers from 300W to 1200W. A further subset of option modules provides an AC Fail signal, standby voltages (up to 12V 2A), global remote on/off and PMBus™ communications. Overall case dimensions for the QM5 are 127 x 63.3 x 270mm (W x H x D).

The QM5 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 a low speed cooling fan to reduce audible noise. A lower airflow speed also significantly reduces the ingress of dirt and other contaminants, improving product reliability. All models in the QM series have a seven-year warranty as standard.

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 QM5, 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 fan
- Up to 12 outputs
- 7 year warranty

Major specifications

Model		QM5
Input voltage range	Vac	90 – 264Vac
Output voltages	Vdc	2.8 – 52.8Vdc
Maximum output power	W	1200W
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	127 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 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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