

## Power Supply Product

# Single Output 600 to 1200W Power Supplies Have Full MoPPs Isolation, Low Acoustic Noise and PMBus™ Communication

August 2018

TDK Corporation (TSE 6762) announces the introduction of the QS series of single output medical and industrial power supplies, rated at 600 to 1200W. These configurable models have full MoPPs (Means of Patient Protection) isolation, low acoustic noise and a range of options including a PMBus communication with a high current standby voltage. 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 QS7 can deliver 1200W, the QS5 600W and the QS5H up to 1200W at high line and 700W with a low line (<180Vac) input. Three standard output voltages are available; 12V, 24V and 48V. The standby/signal option can be configured with output inhibit or enable remote on//off, a PMBus™ interface and a 5V 0.25A and/or a 5V 2A standby voltage.

Case dimensions for the QS5 and QS5H are 127 x 63.3 x 270mm (W x H x D) and 176 x 63.3 x 270mm for the QS7. The QS5 and QS5H are available with an IEC 320 input connector, replacing the screw terminal block. Operating ambient temperatures are -20 to +70°C, with output power and output current linearly derating above 50°C to 50% at 70°C. The use of low speed fan cooling reduces audible noise and also significantly reduces the ingress of dirt and other contaminants, improving product reliability. All models in the QS series have a seven-year warranty as standard.

The power supplies have 4,000Vac (2 x MoPPs) input to output, 1,500Vac (1 x MoPP) input to ground and 1,500Vac (1 x MoPP) output to ground isolation. All models are certified to the IEC/EN/UL/CSA 60601-1, ANSI/AAMI ES 60601-1 and IEC/EN/UL/CSA 60950-1 safety standards, (designed to meet IEC/EN 61010-1), with CE marking for the Low Voltage, EMC and RoHS2 Directives. Earth leakage current is less than 300µA, 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/qs-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/>.

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## Major applications

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

## Main features and benefits

- Full medical isolation (MoPP), suitable for B and BF-rated equipment
- Low speed, low audible noise fan cooling
- PMBus communication
- 7 year warranty

## Major specifications

Model		QS
Input voltage range	Vac	90 – 264Vac
Output voltages	Vdc	12, 24 and 48V
Maximum output power	W	600 to 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/EN 61010-1
Size (W x H x L)	mm	QS5, QS5H: 127 x 63.3 x 270mm, QS7: 176 x 63.3 x 270mm
Warranty	-	Seven years

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## 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/>

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## Contacts for regional media

Region	Contact	Phone	Mail
Americas	Tom Tillman TDK-Lambda Americas	(619) 575 4400	<a href="mailto:tom.tillman@us.tdk-lambda.com">tom.tillman@us.tdk-lambda.com</a>