Power Supply Product

**Harsh environment DC-DC converter series extended with additional voltages and power levels**

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TDK Corporation announces the introduction of additional models to the HQA series of harsh environment DC-DC converters. The series now includes both 85W and 120W ratings with output voltages of 5V, 12V, 15V, 24V, 28V and 48V. The input voltage is 9V to 40V for the 5 to 28V units and 18V to 40V for the 48V unit. All models can withstand a 50V surge for 1 second. With efficiencies of up to 92%, the HQA series is highly suited for use in COTS, communications and industrial equipment.

The HQA series has been qualified using methods consistent with MIL-STD-883, and offers two screening and operating temperature options. The HQA120 M-Grade has functional testing in cold, hot and room ambient temperatures, and an extended 96 hour burn-in with ten-cycle temperature testing. The S-Grade (HQA85 and HQA120) has functional testing in hot and room ambient temperatures and the standard burn-in period. The full load operating temperature for the M-Grade is -55 to +115°C, and -40 to +115°C for the S-Grade.

A constant switching frequency enables easier EMC system compliance and, without the use of optocouplers in the control loops, high temperature long-term reliability is increased. All models feature auto-recovery protection for both input under voltage and output overload. The outputs can be adjusted using the trim function by +/-10%, and turned on or off remotely.

Two baseplate mounting versions are available. The flanged format measures 60.6mm x 55.9 mm x 12.7 mm, with the non-flanged following the standard quarter brick format and measuring 60.6mm x 39 mm x 12.7 mm.

Safety certification includes IEC/EN 60950-1, UL/CSA 60950-1 with CE marking for the Low Voltage and RoHS2 Directives. Input to output and input to baseplate isolation is 2250Vdc.

For more information about the full range of TDK-Lambda HQA series of DC-DC converters, please call TDK-Lambda directly on +44 (0)1271 856600 or visit the TDK-Lambda website at: [www.uk.tdk-lambda.com/hqa](http://www.uk.tdk-lambda.com/hqa).

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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 includes passive components, such as ceramic, aluminium 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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