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## **Power Supply Product**

## 120W Quarter Brick DC-DC Converters have Four Package **Styles for Industrial Applications**

#### August 2017

TDK Corporation announces the introduction of the GQA120 series of 120W industrial grade DC-DC converters. Four package types allow product performance to be optimized for the application. The series can accept a 12Vdc or 24Vdc nominal input, making it suitable for ruggedized communication equipment, automated vehicle mounted electronics, trackside rail and marine radar and navigation applications.

The GQA120 series utilizes the industry standard quarter brick pin-out and has four packaging options. For convection cooled environments the flanged baseplate version is suitable for coldplate cooling and models with the non-flanged baseplate can be fitted with a standard quarter brick heat-sink. The cost optimized open-frame construction is suitable for applications with airflow, or the encapsulated design is best suited for high temperature, harsh environments with minimal airflow. All models have a baseplate temperature rating of -40°C to +105°C.

5V, 12V, 15V, 24V, 28V and 48V nominal outputs are available and can be adjusted -10% / +10% using the trim function. The 5V to 28V models will operate with a 9 to 36Vdc input and the 91.5% efficient 48V output from 18 to 36Vdc. All models can withstand a 1 second surge of up to 50V. The GQA120 will automatically recover following an input under-voltage, output overvoltage, over-current or over-temperature condition.

Input to output isolation is 3,000Vdc for the flanged encapsulated models, 2,250Vdc for the encapsulated non-flanged and 1,500Vdc for the open frame construction. The series is safety certified to IEC/EN/UL 60950-1 with CE marking for the Low Voltage and RoHS2 Directives.

More information can be obtained at the following TDK-Lambda Americas website, http://www.us.tdk-lambda.com/lp/products/gqa-series.htm, or by calling 800-LAMBDA-4. Product availability for the GQA120 converters can be found via the link to TDK-Lambda's distributor network (see "Check Distributor Stock to Buy") at <a href="http://www.us.tdk-lambda.com/lp/">http://www.us.tdk-lambda.com/lp/</a>.

### **Major applications**

Ruggedized communication equipment, automated vehicle mounted electronics, railroad trackside and marine radar and navigation equipment

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#### Main features and benefits

- Standard quarter brick pin-out
- Wide range 9-36Vdc and 18-36Vdc input
- Four performance optimized packaging options
- Up to 91.5% efficient
- Up to 3,000Vdc input to output isolation

#### **Major specifications**

Model		GQA120 series	
Input voltage range	Vdc	9 – 36V & 18 – 36V (48V model)	
Output voltages	Vdc	5, 12, 15, 24, 28 & 48Vdc	
Maximum output power	W	120W	
Efficiency	%	Up to 91.5%	
Baseplate temperature	-	-40°C to +105°C	
Safety Certifications	-	IEC/EN/UL/CSA 60950-1	

#### **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, highfrequency 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 <a href="http://www.tdk-lambda.com/">http://www.tdk-lambda.com/</a>

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