

## Power Supply Product

# Wide range output, 1/32<sup>nd</sup> footprint converters operate from a 9 to 53Vdc Input

January 2018

TDK Corporation announces the introduction of the 100W rated TDK-Lambda i3A series of non-isolated DC-DC converters. Capable of operating from an input voltage of 9V to 53V, the step-down converter delivers an output voltage that can be adjustable from 3.3 to 16.5V or 5 to 30V with output currents of up to 8A. The series is designed to be used in a wide range of applications including medical, communications, industrial and test and measurement equipment.

In a 1/32<sup>nd</sup> brick form factor, measuring 19.1 x 23.4 x 9.6 mm, the converters can be used in conjunction with a single output 12V, 24V, 36V or 48V AC-DC power supply to generate multiple additional regulated outputs, with or without battery back-up.

Operating efficiencies are up to 98%, minimizing power losses to allow the series to operate in harsh ambient temperatures of -40°C to +125°C even with low airflow conditions. The need for external output capacitance is reduced due to an optimized dynamic voltage response, thus reducing board space requirements.

The basic feature models include an output voltage adjustment pin, positive or negative logic remote on-off, remote sense, input under-voltage, over-current and thermal protection. All models are certified to UL/CSA 60950-1, IEC/EN 60950-1 and carry the CE mark 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/i6A-series.htm>, or by calling 800-LAMBDA-4. Product availability for the i3A converters can be found via the link to TDK-Lambda's distributor network (see "Check Distributor Stock") at <http://www.us.tdk-lambda.com/lp/>.

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### Major applications

Medical, communications, industrial and test and measurement equipment

### Main features and benefits

- High efficiency (Up to 98%)
- 9 to 53Vdc input,
- 3.3 to 16.5V or 5 to 30V output adjustment
- Up to 100W or 8A output

### Major specifications

Model		i3A4W008A033V	i3A4W005A150V
Input voltage range	Vdc	9 to 53V	
Output voltage range	Vdc	3.3 - 16.5V	5 - 30V
Maximum output current	A	8A	4.5A
Maximum output power	W	100W	
Efficiency	%	89 - 96.5%	95.5 - 98%
Size (L x W x H)	mm	19.1 x 23.4 x 9.6mm	

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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, 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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