

## Power Supply Product

# 300W 1/8<sup>th</sup> Brick DC-DC Converter has Digital Control

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August 2014

TDK Corporation announces the introduction of the 300W TDK-Lambda iEH series of isolated DC-DC converters. Featuring digital non-linear adaptive control, these converters provide better dynamic performance, improved system stability and reduced component count.

Operating from a 48VDC nominal input, the iEH series can provide output voltages of 9.6 to 12V with currents up to 33A. The series is designed to meet a wide range of applications, including Information & Communication Technology (ICT) equipment, semiconductor manufacturing equipment, measuring equipment and general industrial equipment.

The converters are in the industry standard eight brick package and include a baseplate with mounting holes for use with an external heatsink. Optimization of components using digital control enables up to 192W of output power with only 200LFM airflow in an 85°C ambient.

Input to output isolation is 2,250VDC and input to baseplate is 1,500VDC. All models feature remote on/off, over current, input under/over voltage protection, output over voltage protection and over temperature protection.

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

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### Major applications

ICT equipment, semiconductor manufacturing equipment, measuring equipment and general industrial equipment

### Main features and benefits

- High efficiency (Up to 94.6%)
- Industry standard 1/8<sup>th</sup> brick footprint
- 300W output power
- Low airflow requirement for cooling

## Major specifications

Model		iEH4N033A096V	iEH48025A120V
Input voltage range	Vdc	45 to 55V	36 to 75V
Nominal output voltage	Vdc	9.6V	12V
Maximum output power	W	317W	300W
Efficiency (48V input)	%	95.5%	94.6%
Cooling	-	Convection or Forced air	
Operating Temperature	°C	-40 to +85 °C (200LFM airflow)	
Safety certifications	-	UL / CSA / EN60950-1	
Size (L x W x H)	mm	58.4 x 22.9 x 13.5mm (1/8 <sup>th</sup> brick format)	

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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 electronic components, modules and systems\* which are marketed under the product brands TDK and EPCOS, power supplies, magnetic application products as well as energy devices, flash memory application devices, and others. TDK focuses on demanding markets in the areas of information and communication technology and consumer, automotive and industrial 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 2014, TDK posted total sales of USD 9.6 billion and employed about 83,000 people worldwide.

\* The product portfolio includes ceramic, aluminum electrolytic and film capacitors, ferrites, inductors, high-frequency components such as surface acoustic wave (SAW) filter products and modules, piezo and protection components, and sensors.

### 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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