

PRESS RELEASE



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TDK-LAMBDA EXTENDS QUARTER BRICK LINE

- iQL Series covers the output voltage range from 1.2 to 28V, with a power rating up to 300W -

TDK-Lambda has further extended its impressive line up of high power quarter brick modules with the introduction of the iQL Series. Covering the output voltage range from 1.2 to 28V and with a power rating up to 300W, this new family of wide input voltage range, fully regulated output DC-DC converters deliver exceptional performance in the industry standard DOSA quarter brick footprint.

The iQL Series has been designed with confined space and demanding thermal environments in mind, as used in telecom, datacom, access, wireless and many other applications including test & measurement, broadcast and industrial. The single board open frame quarter brick converter offers up to 95% power conversion efficiency, 181W/in³ power density and 70A useable output current. Further, the iQL converter's efficiency curve remains high and incredibly flat, staying at more than 92% efficiency, over a wide 25% to 100% load.

By integrating TDK's latest custom ASIC control device, newest ferrite cores and multi-layer capacitors, engineers at TDK-Lambda have reduced the component count significantly providing in a single board solution, the same levels of power formally only available on 2 board designs. Further the optimised, reduced component count layout and high power density of the iQL Series provides a more reliable and cost effective solution.

The fully regulated output iQL Series of DC-DC power modules cater for two application areas. For conventional power rails, the 'standard' output voltages of 1.2, 1.5, 1.8, 2.5, 3.3, 5, 24 or 28V are equipped with both remote sense and trim suitable for powering a wide array of devices. The 8.3, 9.6 and 12V output products, featuring output trim and no remote sense are ideal for powering Intermediate Bus architectures. The iQL family also boasts a wide input range of either 36-75V or 18-36V, additionally making them a no compromise alternative to bus converters.

The input is fully isolated from the output and base plate. Standard features include fixed frequency operation, remote on/off, monotonic and pre-bias load start up, auto recovery of input, under voltage output, over current and over temperature protection circuitry and latching output over voltage. Latching protection for over current and over temperature positive polarity on/off, and no base plate are offered as options.

iQL converters are approved to a wide range of national and international safety standards, including UL60950, VDE 0805 and CB scheme (IEC950) and are RoHS compliant. In addition, the iQL Series carries the CE mark according to the LV Directive and come with a three-year warranty.

About TDK Electronics Europe GmbH

TDK is a recognised world leader in the design and manufacture of electronic components. This position has been achieved through dedication to the development of new materials, new products, advanced manufacturing processes, improvements in product quality and exceptional customer service. Founded in Japan in 1935, TDK was created with the aim of becoming the world's first manufacturer of the magnetic material ferrite. TDK's European operations, head quartered in Duesseldorf, Germany, includes 7 regional sales offices, 2 R&D laboratories and 2 manufacturing centres. From these bases and with the support of a wide distribution network, TDK provides more than just access to components and technology.

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