

Ericsson's bus converter enables higher power levels in eighth brick format

Ericsson Power Modules' eighth brick sized PKB-NG DC/DC bus converter provides an output power of 300W at 42A. With high output power and high efficiency, the converter sits alongside the best products on the market and offers users the opportunity to attain higher power levels in a smaller packaging than traditional quarter brick units. Alternatively, it enables users to achieve higher power in a standard eighth-brick format when upgrading boards for higher performance.

End-customers are constantly adding functionality to applications, requiring more power per board while simultaneously expecting a reduction of space allocated to the on-board power sources. Fully titled PKB4302NG, this latest converter from Ericsson allows them to achieve this as the power available is up 15% compared to some of the existing quarter bricks on the market.

The PKB4302NG is available in through hole and baseplate variations. This fixed ratio intermediate bus converter features an input voltage range of 38V to 55V and for versatility is configured with an industry standard footprint and pin out.

The converter meets the insulation requirements of EN60950 and comes complete with vital industry standard features such as remote on/off, over-temperature protection, output over-current and over-voltage protection, and input under-voltage protection

The most important application areas for the converter are datacom/networking, wireless networks, optical network equipment, server and data storage.

The PKB4302NG is designed to be highly efficient and cost effective. With creative design technology and optimization of component placement, the converter offers outstanding electrical and thermal performance, as well as high reliability under stressful operating conditions. It offers an extremely high efficiency figure of 97% at 48Vin from 50%-100% load, which matches with the very best products on the market. Excellent thermal performance is achieved at full power at 70 degrees C with 2metres/sec airflow of cooling.

Careful PCB routing ensures low thermal as well as low electrical resistance. All loops that carry switching currents are kept to a minimum, resulting in low parasitic inductance. The electrical design employs a patent pending technique called 'SynchFET gate drive stretch', whereby the efficiency of the synchronous rectifiers is further increased.

With the already released quarter brick intermediate bus converter PKM-NG, this latest eighth brick from Ericsson completes their fixed ratio IBC product portfolio.

Ericsson is the world's leading provider of technology and services to telecom operators. The market leader in 2G and 3G mobile technologies, Ericsson supplies communications services and manages networks that serve more than 195 million subscribers. The company's portfolio comprises mobile and fixed network infrastructure, and broadband and multimedia solutions for operators, enterprises and developers. The Sony Ericsson joint venture provides consumers with feature-rich personal mobile devices.

Ericsson is advancing its vision of 'communication for all' through innovation, technology, and sustainable business solutions. Working in 175 countries, more than 70,000 employees generated revenue of USD 27.9 billion (SEK 188 billion) in 2007. Founded in 1876 and headquartered in Stockholm, Sweden, Ericsson is listed on the Stockholm and NASDAQ stock exchanges.

For more information, visit www.ericsson.com or www.ericsson.mobi.

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About Ericsson Power Modules

Ericsson Power Modules is a supplier of world-class DC/DC power modules for distributed power architectures. With its global design, development, manufacturing and sales network Ericsson Power Modules is a leading supplier of power solutions to meet the customer demand for high performance.