

High performance DC/DC converters break price barrier and reduce height in half brick format

Ericsson Power Modules has announced a series of high performance DC/DC converters available in the industry standard half-brick format, offering very competitive prices. Designated the PKJ4000E series, the modules offer price savings over similarly specified half brick products of around 25%. With 48V inputs, the converters are initially available in single output models and are suitable for on-board power solutions in distributed power architectures in telecom, datacom and other demanding applications.

The first of the DC/DC converters in the series is the PKJ4810E PI, an open frame product using synchronous rectification to provide 3.3V at 25A, 82.5W out, and giving up to 92% efficiency at normal input voltage. The PKJ4000E single platform supports a wide range of output voltage ranges down to as low as 0.9V. Ericsson will roll out a wide selection of output voltages to meet market needs.

With a height of just 8.5mm, the converter is ideal for applications with board spacings down to 15mm, and being an open frame design with all components mounted on the bottom side, it offers good thermal performance and a wide temperature range. Low weight also contributes to less mechanical stress and vibration problems upon the host equipment for increased reliability.

By taking a proven high efficiency electrical solution (PKN), increasing the power and offering it in an industry standard foot-print and pinning, Ericsson is able to offer high performance together with a very competitive pricing structure.

The PKJ4000E series is aimed at all users of half brick products including existing designs and new ones, but crucially, the series is particularly aimed at demanding applications where cost is a critical factor. The market trend in telecommunications is for power consumption per board to increase, plus the density of boards per shelf to increase also. Additionally there is a transition taking place from natural convection to more forced air cooling applications, creating a market need for high efficiency, low cost DC/DC converters like the PKJ4000E series.

Ericsson Power Modules' PKJ4810E PI is now available for order.

Ericsson is shaping the future of Mobile and Broadband Internet communications through its continuous technology leadership. Providing innovative solutions in more than 140 countries, Ericsson is helping to create the most powerful communication companies in the world.

FOR FURTHER INFORMATION, PLEASE CONTACT

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Reader Inquiry reference:

Press Release Reference: E0045(A)

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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.