

RoHS compliant DC/DC module offers 25% more power for optimum DC/DC and POL split

Ericsson Power Modules' PKB4913PINB DC/DC converter module has the same footprint as its predecessor yet offers 25% more power, thus increasing the important power to space ratio. The module addresses all new applications using a 48V input that require a stable 12V, optimising the efficiency of intermediate bus conversation applications.

The module's near 100W output capability and tight regulation characteristics also make it possible for designers to optimise the combination of DC/DC modules and POL devices for the lowest possible power consumption, contributing to reduce unnecessary power losses resulting from an inadequate power architecture.

Relevant applications for the module are data storage, servers, datacom, and all 48V systems as well as applications that have a requirement to combine the wide input voltage range that is inherent to battery backup systems with intermediate 12V bus converters.

The main factor driving the demand for this type of device is the development of intermediate bus converters in traditional telecom/datacom environments that are powered by 48V supplies and require stable intermediate 12V bus architecture.

Rated at 90W/7.5A, the PKB4913PINB is footprint compatible with Ericsson Power Modules' earlier 72W PKB4713PINB module, providing a simple upgrade route when a higher power level is required to meet the needs of a new DSP or ASIC.

Designed from the beginning to comply with RoHS and Ericsson Power Modules own DfE (Design for Environment) requirements, the PKB4913PINB has been developed under strict conditions of environmental control, with special attention to sub-manufacturing processes and enforced legislation.

The PKB4913PINB uses a secondary synchronous rectifier design topology with start-up control to guarantee a monotonic rise, and features integrated magnetic components with a multilayer RoHS compliant PCB.

Ericsson Power Modules was one of the first companies in the DC/DC power industry to release lead-free products and also to implement the DfE concept that it did as early as 2000. The result of five years of investment in clean design, the PKB4913PINB delivers high performance at a cost efficient level while respecting the environment.

Priced at \$25 in OEM quantities, designed and developed to contribute to cost and energy saving, Ericsson Power Modules' PKB4913PINB is an excellent solution for applications requiring a stable intermediate bus architecture. Combined with EPM's POL product guarantee it offers end-users an efficient and reliable solution.

The PKB4913PINB is very competitive with similar products in its category and is underpinned by the company's long experience and ability that has resulted in over 50 million DC/DC modules in the marketplace.

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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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.