

High power intermediate bus converter in standard 1/4 brick format maximises power at lowest cost

Without compromising performance, Ericsson Power Modules' PKM4000NF series intermediate bus converters (IBC) offer designers the most cost effective route to achieving the highest possible power density and efficiency in intermediate bus architecture (IBA) systems. For use in distributed power architectures, the converters are targeted at communications equipment customers who have adopted IBA incorporating a narrow input range of 42 to 53Vin.

The 300W rated, 1/4 brick size converters provide 25A output current at 12V, with a very high efficiency figure exceeding 96%. The device's non-regulated design increases efficiency by 4% compared to the best available standard DC/DC 1/4 brick, reducing up to 50% of the total power loss. The converter's high efficiency performance offers increased reliability and reduced system lifetime costs.

Driving the need for these converters are the increasing use of 12V IBA and the more common use of point of load (POL) devices. The IBC improves the overall system efficiency and decreases the cost compared to using 'standard' regulated DC/DC converter for the 12V bus.

Featuring a very cost efficient design, all of the components have been mounted on one side of the board. The design has enabled Ericsson to substantially reduce its fixed manufacturing costs and hence offer customers the cutting edge IBC at a very competitive price. This single sided design is unique to Ericsson Power Modules; competitors have so far been unable to fit all the components on to one side of a board without losing functionality or power density. The IBC measures just 57.9 x 36.8mm and offers a building height of just 10.9mm.

Ericsson Power Modules' PKM4000NF offers over-voltage and over-temperature protection, current limiting, and a 1500V input to output isolation figure is specified.

Without any compromise in performance, customers will benefit from the PKM4000NF, the most cost efficient IBC available on the market today.

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.