Full-brick DC/DC Converter is a ‘Drop-in’ Replacement for 24 V Input Designs

Ericsson Power Modules announced an advanced DC/DC converter platform for RF power amplifier applications utilizes the industry standard full-brick format and footprint, making it a drop-in replacement that offers enhanced performance. The PKY2616PI delivers 600W output power and typically exceeds 94 percent efficiency. The device’s efficiency curve is virtually flat from 30 percent to 100 percent load. It is designed for 24V DC system voltages and has an input voltage range of 18V to 36V. For safety and availability, it can withstand up to 50V input continuously. The output voltage is factory set at 28V and the device features an ultra-wide output voltage trimming range that can be adjusted from 32V down to 10V, making the it flexible for different RF power amplifier technologies and applications, as well as other applications that require a regulated voltage, such as cooling fan trays in forced convection cooled equipment. It has a typical 20 mV load and line regulation with ±1 percent set voltage over a base-plate temperature range of -40°C to 100°C. The device delivers full power at 100°C base plate temperature, and uses only high-reliability ceramic capacitors. Fully current-limit protected, the device has overvoltage protection on input and output connections. The PKY4716PI complies with ROHS requirements and, with its low component count, offers high reliability. In OEM quantities it is priced at $77.
Ericsson Power Modules
972-583 6910, www.ericsson.com [1]

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