Sixteenth-Brick DC-DC Converter Series Offers High-Efficiency, Low Profile and is Cost-Effective

Carlsbad, Calif. -- Emerson Network Power, a business of Emerson and the global leader in enabling Business-Critical Continuity™, has launched the ALD15 sixteenth-brick DC-DC converter series.

Designed for use with telecom-standard 48 V power supplies, the converters are capable of achieving up to 92% efficiency at full load and are extremely cost-effective when used in applications requiring up to 35W of output power.

The low profile ALD15 series has an installed height of 0.35 inches, making it appropriate for systems that require tight inter-board spacing or where sufficient separation between the converter and adjacent boards is needed.

Available in five power ratings (13 A at 1.8 V, 11 A at 2.5 V, 10 A at 3.3 V, 7 A at 5 V and 2.75 A at 12 V), ALD15 converters accept a wide input voltage range of 36 to 75 Vdc, and feature outputs that can be adjusted from 90% to 110% of nominal voltage via external trim resistors.

They are equipped with a rich set of standard features designed to deliver best-in-class performance, including differential remote sense, remote on/off facilities, undervoltage lockout and non-latching overvoltage protection. The converters are also protected against overcurrent and overtemperature conditions.

All models feature a compact 1.3 by 0.9 inch sixteenth-brick footprint, making them 43 percent smaller than converters using a conventional eighth-brick form factor.

The ALD15 converters have an estimated mean time between failures (MTBF) of more than one million hours and offer a wide ambient operating temperature range of minus 40 to plus 85 degrees Celsius, enabling reliable deployment in a variety of demanding environments.

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