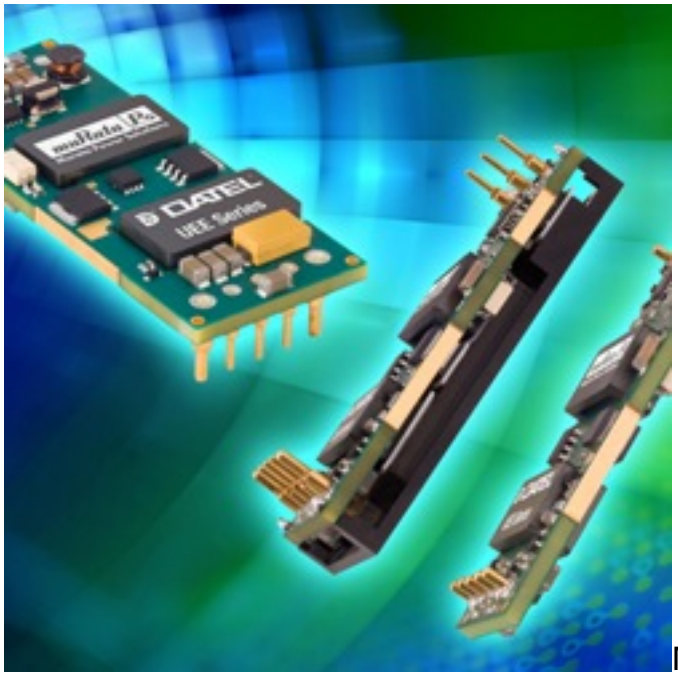
Fully Isolated Open-Frame DC-DC Converters



Murata Power Solutions today announced the UEE series of fully isolated, open frame DC/DC converters. Designed specifically for high volume cost sensitive telecom, networking, and instrumentation applications, these highly efficient modules, typically up to 90% efficient, provide a single 3.3 VDC output. Measuring just 58.4 x 22.9 10.16 mm (2.3 x 0.9 x 0.4 inches), the family meets all the mechanical and electrical requirements of the industry standard DOSA compliant 1/8th brick package. Complying with the worldwide requirements for telecommunications network voltage (TNV) applications, they have a nominal input voltage of 48 VDC and can accommodate a wide input range from 36 – 75 VDC.
There are two models in the series. The UEE-3.3/15-D48 offers a 15 Amp output and the UEE-3.3/30-D48 a 30 Amp output. Both fit within the industry standard DOSA Eighth “brick” package. Mounting options include through-hole pin or surface mount. A baseplate option is available for the 30 Amp through-hole model.

Designed to operate in a wide range of applications and environments, the UEE series can operate from – 40 to + 85 degrees C in telecommunications equipment when forced air cooling is applied. An output trim function allows the output to be adjusted +/- 10% of Vout Nominal for voltage margining and to compensate for voltage drops within some applications. A Vout Sense function can also compensate for PCB losses.

An On/Off control input allows the application to enable or disable the output in order to sequence startup and shutdown if required. Use of positive or negative logic options for this control are available and can be specified at the time of order. Other protection features include input under-voltage lockout, output short circuit protection, thermal shutdown, output short circuit protection, and 2,250 VDC (BASIC) insulation that complies with the requirements for PoE (Power Over

Ethernet) applications.

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