

EDITORIAL/READER CONTACT:
Sandy Huang
Marketing Manager
Small Technology Research Group

886-4-2422-6918
sandy@powergood.com
www.powergood.com

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Powergood's New 4:1 Input 1/16 Brick DC-DC Converters For High-Performance Telecom, Datacom and Medical Applications

The Powergood(**Small Tech. Research Group**) today announced the new EST Series of isolated DC-DC converters to their growing portfolio of isolated DC-DC converters for high-speed networking, telecommunications, and computing applications. The 1/16 brick (1.3"x 0.9" footprint) parts are capable of delivering up to 50W of output power at higher voltages, or up to 20A of output current at an output of 1.8VDC. The low-cost devices are designed to operate efficiently over a 4:1(2:1) input range of 18 to 75 VDC, facilitating their employment on boards with industry standard bus voltages of 24V, 48V or 60V. Notably, their ultra-wide input range permits the use of single power system designs, which are capable of operating in an extensive array of environments. The Series is RoHS compliant and withstand a basic isolation voltage from input to output of 2250VDC.



The open frame construction of the EST Series, combined with its input voltage range and footprint of less than 1.2-square inches, makes it highly appropriate for use in a wide assortment of networking, telecom, wireless and industrial designs requiring tight board spacing. The most common employment is on PC boards in mobile/optical switches, high capacity network routers, high-end datacom and medical systems, as well as in a variety of systems using distributed power architecture.

EST converters boast fixed frequency synchronous rectification control for high efficiency, together with positive/negative remote sense, remote on/off logic, and +/-10% output trim. Protection features include input and output over-voltage protection, over-temperature protection, current limit and short circuit protection, and under voltage lockout. They are provided with either active-high or active-low on/off polarity. Modules operate over an ambient temperature range of -40 to +85 degrees C. The standard lead time for quantity orders is from stock to 6 weeks. Samples are available immediately. To learn more about the EST Series, visit www.powergood.com