

SOLID STATE TRANSFORMER

For Medium Voltage Distribution, Critical Load Support, and Weight & Volume Constrained Applications

DESIGN FEATURES

- + 1.8MW, Scalable To >4 MW
- + Variable Input:
4160 V - 13.8 kV AC, 60 Hz
- + 200 kW PEBB, Scalable To 450 kW
- + 1kVDC Regulated Output
- + Real-Time Model of System
- + All SiC Module Design
- + Common Mode EMI Mitigations
- + Derated For Extended Life



HARDWARE FEATURES

- + Highly Maintainable Cabinetry
- + Reduced Cost Commercial Cabinetry & TMS Alternatives
- + "Hatchable" Power Electronic Building Blocks (PEBBs)

SYSTEM

- + Scalable & Upgradable
- + Agnostic Energy Storage Interface
- + Redundancy, Cabinets Can Be Placed In Parallel

BENEFITS & EFFICIENCIES

- + 3x Power In The Same Footprint As Silicon
- + >98% Max Efficiency

SPECIFICATIONS (MIL)

- + Size: H: 80" L: 270" D: 48"
- + Weight: 12,804 lbs
- + Volumetric PD: 0.11 MW / m³
- + Gravimetric PD: 7,113 lbs. / MW

SAFETY & PROTECTION

- + 95kV BIL Rated
- + Increment Weather Resistance
- + Stored Energy Safety Discharge
- + Door Safety Interlocks

REGULATORY COMPLIANCE

- + EMI: Mil-Std-461
- + Power Quality: Mil-Std-1399
- + Grade A Shock & Vibration Rated

APPLICATION

- + Military, Industrial & Commercial

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