

SiC DC/DC

Ship Service Converter Module (SSCM)

DESIGN FEATURES

- + 300 kW Rated
- + Variable Input: 680 - 1000 VDC
- + Programmable Regulated Output: 270 - 650 VDC
- + Supports Up To 200 MW/s Ramp Rates
- + Parallelable To Multiple MW
- + Droop Control for Output Current Sharing
- + Liquid Cooled Cold-Plate
- + CAN Bus Communication
- + All SiC Module Design
- + 48 VDC Control Power Input

HARDWARE FEATURES

- + Line Replaceable Unit (LRU)
- + Hatchable
- + Rear Blind Mate Connectors For Input & Output Power Connections
- + Quick Disconnect Coolant Connections

BENEFITS & EFFICIENCIES

- + 2x Power In The Same Footprint As Silicon Based Design
- + >98% Max Efficiency

SPECIFICATIONS

- + Size: H: 9.25" L: 19.00" D: 39.06"
- + Weight: 316 lbs
- + Volumetric PD: 2.67 MW / m³
- + Gravimetric PD: 1,053 lbs / MW

SAFETY & PROTECTION

- + Stored Energy Safety Discharge
- + Emergency Stop Input For Gating Disable & Cap Discharging
- + Output Current Limiting

REGULATORY COMPLIANCE

- + Commercial & Military Tailoring

APPLICATION

- + Military & Commercial

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