

HIGH POWER TRACTION MOTOR INVERTER / GENERATOR CONTROLLER

250kW (400kW Peak)

Crane Aerospace & Electronics' newest inverter solution is a next-generation, high-efficiency 600VDC to 3-phase AC power converter engineered to meet the extreme demands of military ground vehicle and expeditionary energy applications. Our inverter supplies up to **250kW continuous** and **400kW peak** power in a compact, ruggedized enclosure. Cutting-edge **silicon carbide (SiC) switching technology** delivers unmatched thermal performance, power density, and reliability, with efficiencies greater than 99%.



Size: 432 x 318 x 171 mm (LxWxH) | Weight: 25kg

KEY TECHNICAL ADVANTAGES:

- **Advanced SiC Technology:** Increases switching efficiency, reduces thermal load, and minimizes size & weight
- **Wide Voltage Range:** Accepts 300–800VDC input for flexible electric architectures
- **Bi-Directional Design:** Supports both motoring and generating - enabling regenerative braking, silent mobility, and idle reduction applications
- **High-Speed AC Output:** Supports a range of propulsion and auxiliary motor applications
- **Digital Control Architecture:** Enables precise torque control, diagnostics, and communications over Dual J1939 CAN interface
- **Military Ruggedized Electronics:** Incorporates nuclear event detection / protection

APPLICATIONS:

- **Vehicle Propulsion:** Supports generation or traction motor control in hybrid-electric and full-electric propulsion systems for combat and tactical vehicles
- **Tactical Micro-Grid:** Enables high power generation and export for Vehicle-to-Grid (V2G) and mobile command post applications compliant to MIL-STD-3072
- **On-Board Power:** Supports silent watch and emerging power-hungry payloads (DE, C-UAS, etc.)

Crane Aerospace & Electronics is an industry leader in power technology that accelerates the electrification of air, land and sea vehicles and systems. We've leveraged our more than 60 years of power expertise to deliver technology advancements that provide higher power in smaller and more efficient products.

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CRANE POWER.





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