

Electric Vehicle Power Conversion Solutions

More Innovative. More Rugged. More Electric.

We've combined strategic technology investment with our rich electrical power expertise to deliver the defense industry innovative, electric vehicle power conversion solutions. Our new 15 kW and 120 kW bi-directional power converters are engineered for use in hybrid and all-electric vehicle power trains and are essential for in-vehicle power distribution.

Features & Benefits

- Permits charging and use of energy storage
- Supports cross-tie between high and low voltage power buses
- Supports silent mode operation
- Supports anti-idle operation



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Bi-Directional Power Conversion Configurations

Available or In Development

- 600 Vdc-28 Vdc, 15 kW
- 600 Vdc to Variable (450 Vdc to 750 Vdc), up to 120 kW
- 30-100 kW Import/Export (600 Vdc-115/208 Vac Converter)
- Up to 500 kW Motor Drive Inverter (600 Vdc Input)
- DC-AC Bi-Directional for Export Power and Vehicle to Grid

Uni-Directional Power Conversion Configurations

- DC-AC Inverters to Power Compressors, Fans & Pumps.
- 600 Vdc – 28 Vdc, 15 kW
- 600 Vdc – 270 Vdc, 15 kW

Note: 600 Vdc Input Converters (IAW MIL-STD-3072) can be modified to accommodate higher voltage batteries and/or battery directly on the bus.

Product Applications

Military Ground Vehicles • Heavy Industrial Vehicles • Microgrids



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Onsite, State-of-the-Art High-Power Lab



Our new 7,000-square foot high-power lab in Fort Walton Beach, Fla., supports development and testing of power systems up to 1 MW and represents our commitment to providing leading electrical power solutions that excel in the harshest environments. Lab features include:

- 1 MW power availability
- Discrete/systems
- Three overhead power rails
 - o 277/480 Vac
 - o 120/208 Vac
 - o Variable voltage, variable frequency
- High power bi-directional DC sources/loads
- Static/pulsed loads
- Environmental capability
- Multiple workstations

Contact Us To Learn More

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