

RUGGED POWER CONVERSION SOLUTIONS INDUSTRIAL AND RAILWAY

As specialists in the design and manufacture of heavy-duty switch-mode power supplies, our primary goal is to provide high-performance, cost-effective power conversion solutions that meet each customer's unique application requirements.

Cost-effective Solutions to Any Design Challenge

Power supplies are designed to meet any electrical configuration requirement within an output power range of a few watts to around 30kW. Drawing on several hundred of our field-proven designs and extensive in-house expertise, we can keep design costs low, even for complex, highly customized projects.

Rugged Reliability in Harsh Environments

Reliability is engineered into every power supply. This ensures a long operating life with minimum maintenance under exacting field conditions and contributes to low product life-cycle costs. Our stringent standards and processes encompass:

- High quality designs with large design headroom;
- Optimal thermal performance - all heat generating components are conduction cooled by heat-sink blocks connected to the base-plate;
- Full electronic protection including surge and transient protection;
- High efficiency;
- High quality components with reliability established over many years;
- Robust mechanical construction;
- Rigorous testing of every power supply throughout the production process - all units must pass 'burn-in' before shipment.

Extensive Product Range

Our line of rugged power conversion products includes:

- DC-DC power converters;
- AC-DC power supplies, rectifiers and battery chargers;
- DC-AC sine wave inverters, single or 3-phase combinations;
- AC-AC phase and frequency converters, single or 3-phase combinations;
- DC-output UPS systems;
- Complete power systems in 19" and 23" racks.

A range of features and options is available depending on the specific model and your requirements. These include EMI filtering to any standard, wide operating temperature ranges, output fail alarms, redundancy, indicators, enable/inhibit and other controls, as well as RoHS compliance.

Typical Applications

Today, the products perform reliably in almost every conceivable application in installations around the globe. No matter how unusual or demanding your environment, it is likely that we have already provided solutions for similar projects.



Rugged EN50155 compliant power converters, power supplies and sine wave inverters for train-borne and track-side rail and transit applications.



Power supplies are designed and built to withstand the harshest industrial environments.



Our rugged power conversion products are installed in numerous power generation, transmission and distribution applications.

Heavy-duty Mechanical Designs

Whatever the space constraints of your application, we will ensure that our ruggedly constructed power supplies meet your exact mechanical requirements.

Standard mechanical packages and ruggedization options include:

- Chassis-mountable units in vented conduction/convection or fan-cooled enclosures;
- DIN-rail and open-frame format available for many designs;
- Plug-in (Eurocard) format for modular power systems in 19 inch or 23 inch racks;
- Conformal coating and heavy ruggedizing;
- Full encapsulation (potting) in a thermally conductive MIL-grade silicon rubber compound with UL94V-0 flammability rating where immunity to very high levels of shock and vibration, humidity, moisture, dust, oil, fog, insects and other contaminants is required;
- Enclosure in rugged NEMA/IP-rated packages;
- Custom connections.

Our customers represent a broad spectrum of industries, from small enterprises to the largest corporations, in countries around the globe. We offer technical support during the project development phase to ensure that our solutions are optimized for each application.

To ensure our customers can ship their end-products world-wide, in-house certification is available for CSA, UL and other approvals. The quality procedures have been approved by international agencies and by our corporate customers. The company is a BABT approved facility.



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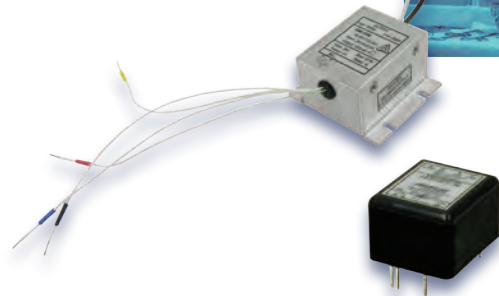
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Our heavy-duty power conversion products have an excellent track record in mining, dredging and earth moving equipment.



Rugged power conversion solutions operate in an extensive range of telecommunications installations.



Our UV lamp inverters are used in sterilization equipment in hospitals, food processing industries, water purification plants, solar radiation simulators and many other applications.

