Isolated Series
As well as voltage conversion, this series provides input/output isolation, allowing use of negative ground electronics on off-highway vehicles which typically employ positive ground battery systems. May also be used as a voltage stabilizer for sensitive equipment (see page 26).

ISP Series
Offer the benefits of an isolated converter (above) plus protection against line transients and voltage spikes typically caused by large DC motors and switching transients often encountered on forklifts, locomotives and light rail. A special circuit clamps input spikes to a safe level, protecting both the converter and the powered equipment.

This product series is further enhanced with extra rugged construction of case and internal components for severe vibration applications.

Features: Isolated & ISP Series
reverse polarity protection; input fuse; output fuse; current limiting, short circuit proof output; automatic resetting thermal shutdown; input transient protection*; high/low input voltage shutdown; polyurethane conformal coating on PC board. Power “ON” light. On/off switch; *ISP Series only

Options
- operation as a battery charger or parallel/redundant operation (contact factory)
- high vibration mounting kit (see page 18)
- Other “Special” output voltages available

ISP Surge Protection
Transient Energy Capability: 36 VDC Input: 140 joules (Watt-Seconds)
Peak Current, 2,000 Amps
72 & 110 VDC Input:
100 Joules (Watt-Seconds)
Peak Current, 12,000 Amps

Temperature Specifications - ISP Series
Operating Temperature -40° C to +80°C
Thermal shutdown @ 85°C Case Temperature

Performance Specifications: Isolated and ISP Series
Output: 13.6 VDC (internally adjustable 12.6-14.5) or 24.5 VDC (or specify)
Ripple: 150 mV P-P
Regulation: +/-2% Line/Load
Duty Cycle Ratings*: Intermittent - 20 minutes, max on time, 20% duty, Continuous - 24 hours, 100% duty
*Current limit set at approximately 105% of intermittent rating
Idle Current: (including power “on” indicator light) approx. 50 mA

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