

Spectrum Power Management Systems Specializes In Rugged Power Solutions for Military Applications



Photo Courtesy of DOD



Spectrum Power Management Systems
1900 West College Ave. State College, PA
(814) 272-2737



Our solutions are also well suited towards these and other Military Applications:

- Unmanned Vehicles & Vessels
- Training and Simulation Equipment
- Mobile Command Posts
- Mission Equipment Packages



Photos Courtesy of DOD



- Robotics
- Common Ground System Shelters
- Forward Operating Bases



Photos Courtesy of DOD



DC SMARTStart® TVP



- 300 Amps of +24/28VDC
- Ultimate Turn Key Ready-to-Integrate Package
- Power densities of 40 w/in³
- Each Channel provides up to 100 Amps
- Effective Distribution to Non Primary Power Systems



MRAP



Photo Courtesy of DOD

MATV

AC Power Master



Photo Courtesy of DOD

- Distributes Source Power of 60A 3 Phase 208VAC
- Features Remote ON/OFF on all outlet groups and Maintenance interrupt lockout functions
- Power sequencing of all outlets including 3 Phase & Single Phase loads
- Circuit Protection on all outlet groups
- Communication options from TCP/IP, Telnet, SNMP and Others



AC SMARTStart® Rugged



- Operating Voltage: 120 VAC (NEMA) or 230 VAC
- Eight Power Outlets
- Monitors ambient temperature in mission case or shelter
- Performs over wide operating temperature range (- 46°C to 60°C)
- Fully programmable sequence and delay on a per channel basis
- Ruggedized LAN Connector
- Remote operation via Telnet or SNMP



Power Entry and Export Panel



- Designed for Tactical Vehicle Use
- Includes a “Transfer Switch” to permit reliable uptime for mission critical hardware in Transit Cases.
- Upon Detection of Poor Power Export Power Panel will transfer back to vehicle inverter power in under 17mSec
- Performs over wide operating temperature range (- 46 C to 60 C)
- Passes Mil Std 461 E Army Requirements

Power Entry Panel **PEP**



- Designed to be embedded in Mobile Military Platforms/Transit Cases
- Distributes Shore Power; 3 Phase 208VAC
- Provides efficient operation power with minimal downtime
- EMC compliance tested to meet shock/vibration and extreme climate conditions



Environmental Testing

The EPP was subjected to a series of environmental tests to confirm operability in a variety of environments. The testing was performed by Sypris Test & Measurement, located in Wayne, New Jersey. [Spectrum Test Report No. 545962-001]



• Tests Performed and Passed:

- Shock and Vibration Testing
- High Temperature Test
- Low Temperature Test
- Thermal Shock Test
- Humidity Test
- Salt Fog Test
- Dust and Sand Test
- Water Tightness Test
- Fungus Test
- Transit Drop Test
- EMC Compliance Test



EMC Compliance

In addition to the various environmental testing, the EPP was verified for EMC compliance per MIL-STD-461E including:

- **Tested and Passed:**
- Conducted Emissions CE102
- Conducted Susceptibility CS101
- Conducted Susceptibility CS114
- Conducted Susceptibility CS115
- Conducted Susceptibility CS116
- Radiated Emissions RE102
- Radiated Susceptibility RS103



Other Superior Power Solutions from SPMS



AC SMARTStart®

- Multifunctional unit designed to control eight AC loads and monitor vital parameters.
- Available in 20Amp, and 30Amp total load capacity
- Also available: screw clamp terminal blocks for industrial applications.



DC SMARTStart®

- NEBS Level 3 Certified
- UL 60950-1 Listed
- Available in -48, +12, or +24/+28 VDC
- Specialized electronic switchable solid state circuit breakers



AC Power Strips

- We offer a wide variety of options for your specific power needs
- Compact design eliminates clutter and promotes space efficiency
- Available standard or with power monitoring option

Spectrum Control, Inc. Business Units:



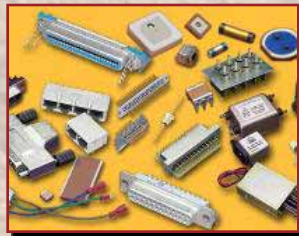
Spectrum Power Management Systems

Designs & manufactures power strips, power distribution units, remote power management systems, fuse interface panels, breaker interface panels, & custom power distribution systems



Spectrum Microwave

Designs & manufactures RF and microwave filters, amplifiers, mixers, ceramic resonators, bandpass filters & duplexers, ceramic patch antennas, lumped element filters, cavity filters, waveguide filters, and related products & systems



Spectrum Advanced Specialty Products

Designs & manufactures low pass EMI filters, surface mount EMI filters, filtered arrays, filtered connectors, gaskets, specialty ceramic capacitors, power line filters, power terminal blocks, & custom power filter assemblies



Spectrum Sensors and Controls

Designs & manufactures motorized potentiometers and position sensors, temperature sensing probes and PTC/NTC thermistors





SPECTRUM
POWER 
Management Systems
A Spectrum Control Business

“Total Military Power Solutions Provider”

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