

www.mapcorp.com
Tel: 443-524-3330 x 134

ksilbert@mapcorp.com
Tel: 443-524-3330 x 118

MARITIME APPLIED PHYSICS CORPORATION

1850 Frankfur Avenue
Baltimore, Maryland 21226

9 Industrial Parkway
Brunswick, Maine 04011



Electrical and Electronics Systems Engineering

Design, Qualification - Fabrication

POWER SYSTEM DESIGN AND ANALYSIS, CONCEPT TO FULLY REALIZED PRODUCT

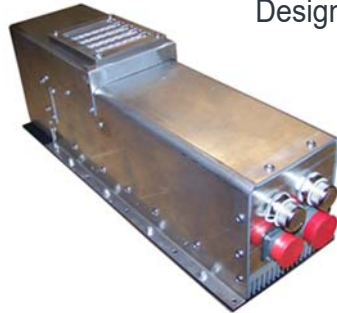
AC and DC filtered solutions.
Designed to meet strict EMI, E3
and Environmental
Requirements such as Shock
and Vibration

ELECTROMECHANICAL SYSTEMS

Comprehensive, rugged systems
for military and marine
environments

PCB DESIGN, LAYOUT AND ASSEMBLY

Custom PCBs with in-house
assembly to J-STD-001



Custom 1kW Military Power Supply
115VAC - 24VDC

- Robust power systems for military applications. Certified to:

MIL-STD-461
MIL-STD-464
MIL-STD-1399, Section 300A
MIL-STD-810G
MIL-S-901D

- Novel designs and working prototypes for:

Extreme environments (deep sea, high temp)
Renewable energy

Power conditioning and
transfer through
lightweight, long-distance,
cables for tethered airborne
systems



DARPA TALONS



Hydrothermal Vent Power Generation Test Article,
Deployed on Pacific Seabed

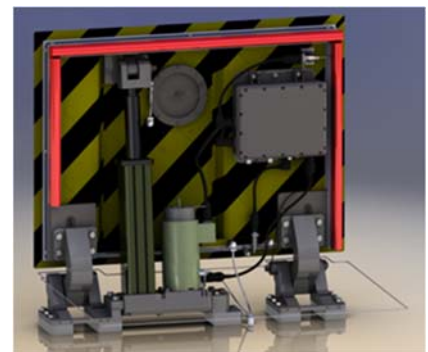
- Electromechanical Systems

Designed with reliability, safety, corrosion resistance
and maintainability considerations

Includes features and peripherals such as safety
edge sensors, anti-ice and position sensing

- Electric Motor Refurbishment and Testing to Include:

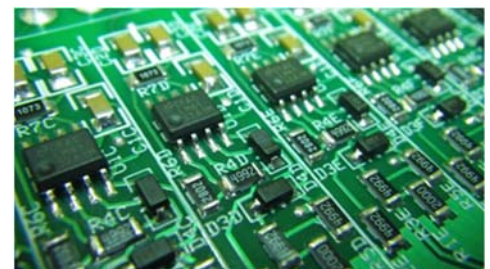
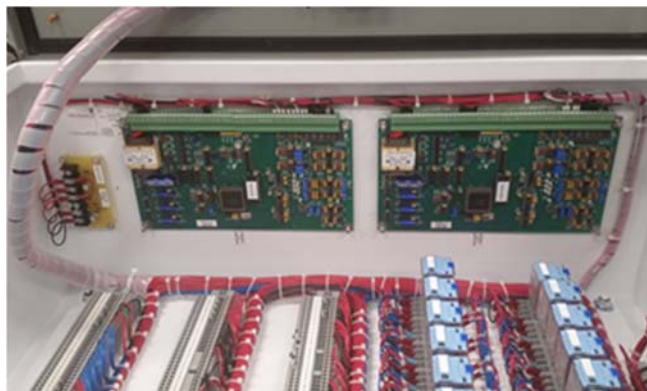
RPM
Vibration
Shaft Runout
Insulation Resistance



Navy DDG1000 Stealth Destroyer, Automated
Personnel Safety Barrier System

- PCB Design and Assembly

Soldering to J-STD-001 Class 3
Shock and Vibration Considerations
Modular and Maintainable



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ELECTRONICS ENCLOSURE ASSEMBLIES

Wide range of enclosures for
commercial, military and
aerospace use

CUSTOM CABLES AND HARNESSES

Complex cable assemblies,
military, commercial and
aerospace. Manufactured to
AS91000 Quality Standards

- **Electronics Enclosures and Assemblies**

- EMI/Environmental, IP68
- Corrosion Resistant
- Modular
- Commercial or Military Grade



*IP68 Emergency Strobe Light
Assembly for Military Helicopter,
External Payload*

- **Custom Cables, Harnesses and Cable Assemblies**

- AS9100 Quality Standards
- Develop accurate, to-scale 'Peg Boards' from 3D CAD
- 3D cable routing using Solid works
- EMI Shielding, 360 degree terminations
- MIL-STD cables, wires, connectors, back shells and accessories
- Commercial equivalents, low cost, lightweight, low profile
- Custom, corrosion resistant heat shrink boot adapters for MIL-STD circular connectors
- Overmolded Assemblies
- IPC-A-610
- IPC/WHMA-A-620
- J-STD-001 Class 3



- **In House Testing Services**

- Submersion testing, including salt water
- Hi pot testing up to 5kV
- Continuity
- Pull and strength tests
- MIL-STD Electrical Grounding and Bonding

