

Shipboard Power Protection

Ruggedized power supplies and battery backup for mission-critical C4I & Combat applications

Today's Naval war-fighting ships are equipped with high-tech servers, switches, routers and displays which are sensitive to disturbances or fluctuations in electricity. Modern shipboard generators are cleaner and more reliable than in past years, but still don't offer the quality electricity provided in commercial structures that the communications, control, command, computers and intelligence (C4I) systems require.

NOVA Power's shipboard UPS's eliminate any kind of disturbance or noise the shipboard generator and shipboard electrical system produce through online, double-conversion technology. Incoming ungrounded, AC delta power is converted to a DC bus and a pure-sine wave, grounded AC power is provided to load equipment. Additional power factor correction (PFC) technology prevents harmful load harmonics from being reintroduced into the shipboard electrical system.

Besides dirty electricity, commercial-off-the-shelf (COTS) uninterruptible power supplies have traditionally proved unreliable in the shipboard environment. Shock, vibration, heat, humidity and EMI are all areas of concern covered by MIL-STD's which NOVA Power's products have been designed and tested.

With thousands of UPS's deployed world-wide since 1991, NOVA Power UPS's have passed dozens of MIL-STD-901D barge tests in isolated cabinets. NOVA Power will work with your engineers to ensure you have the right product for your application meeting all applicable system requirements, with the ability to customize a product as necessary.

UNPARALLELED SERVICE AND SUPPORT

NOVA's Sales and Engineering staff has a 20-year history in the power supply industry. With direct lines of communications to factory engineers, NOVA is able to provide superior technical support to our customers, working side by side with both vendors and end-users. Our engineers take pride in providing a turnkey solution for complete power conditioning and protection where you need it the most-when you need it the most, in the harshest conditions.

Our Application Engineers assist customers in finding a specific solution to fit their custom application from the dozens of products we offer. A NOVA Power UPS is not just a UPS supplying battery backup power in the event of a power loss, but also acts as a line-conditioner with power-factor correction near 100%, thereby successfully eliminating any reflections of transient noise or load harmonics back into a ships electrical network. Our solutions are designed to, and compliant with, MIL Standard's 1399, 167, 901D, and 461E.

NOVA
POWER SOLUTIONS, INC.

NOVA Power Solutions, Inc. has supplied power protection and conditioning, and conversion products for shipboard, tactical and rugged industrial applications since 1988.

Solution Overview



Past Performance:

Homeland Security

- USCG: *ICGS Deepwater Program*- Internal and External Communications

US Navy

- Common Sub Radio Room *CSRR*- Virginia and Trident Class Submarines
- Global Command & Control-Maritime *GCCSM*
- Theater Battle Management Core System *TBMCS*
- Integrated Ships Network- *ISNS*

US Air Force

- Integrated Base Defense Security System- *IBDSS*

US Air Force

- Predator (UAV) Maintenance Station

US Army

- Home Station Instrumentation Training Station- *I-HITS*
- Alaska Training Range Evolution program- *ARTEP*

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