

# Alternative Power Solutions

## NovaPower, A Division of LTI

### POWER PROVISIONS IN CHALLENGING ENVIRONMENTS

NOVA Power Solutions power products include Uninterruptible Power Supplies (UPS), Power Conditioners, and Battery Backup Modules specifically designed and built for the world's toughest environments.

NOVA Power products can be found on US Navy and US Coast Guard ships, on the back of US Army vehicles in the world's deserts, in US Air Force shelter applications and on Off-shore Oil Rigs providing clean power and battery backup capabilities to mission-critical systems and applications.

We offer a range of products depending on the expected environmental conditions and application but most or all of our products meet MIL-STD's for Shock, Vibration, Electromagnetic Interference, Airborne Contaminants, Electricity, Noise, Temperature and Humidity.

Where commercial-off-the-shelf (COTS) products fail to survive NOVA Power products are sure to endure.

### A VARIETY OF OPTIONS FOR INDIVIDUAL REQUIREMENTS

There are a variety of electrical problems present in today's modern society and not all power conditioners or UPS's are the same. Where some are built specifically for residential or commercial applications in grid-connected systems with highly-regulated and reliable electricity provided by the local electrical utility company, NOVA Power's power products are intended to protect user's in the most remote parts of the world from the worst imaginable electrical problems.

NOVA Power's customers typically provide our power products electricity derived from generators which is often inconsistent, unreliable and 'dirty'. Our power supplies take this 'dirty' electricity and clean it up to provide consistent, reliable electricity to today's war fighter and expeditionary teams. Without clean electricity mission-critical communications, navigation, and combat systems can be taken offline or damaged due to power outages and/or issues.

As opposed to *Line Interactive* or *Offline* power supplies which only turn 'on' when an interruption is sensed, NOVA Power products are all *True Online* and work 100% of the time. *Online* power supplies convert 100% of input utility power from AC to DC and then generate a clean, reliable true AC sine wave (defn. *double-conversion*). Any disturbances on the input utility are isolated from your sensitive load equipment and any disturbances generated by load equipment are isolated from the input electrical system due to Power Factor Correction (PFC).

## Technology Overview



### The NovaPower Difference:

- Customer-driven, consultative sales and service
- Products are customizable to meet your specifications
- 18+ years of successful contract performance
- Deep understanding of logistics and supply-chain management
- Support product through it's entire life-cycle
- Large install base of 9,000+ UPS's deployed worldwide

## Technology Overview

Our experience that we've developed in working in these environs/serving these customers We estimate we've shipped around 10,000 power conditioning and battery back up products since 2000, but have been supplying power products to our present customer base since 1994.

In the late 1990's emphasis was placed more on shock and vibration requirements but as temperature, humidity, electromagnetic interference and noise requirements have become more important in recent years our products and designs have evolved to meet the war fighters ever-more complex environment.

### CONTINUOUS RESEARCH AND DEVELOPMENT

Recently becoming a wholly-owned subsidiary of LTI DataComm, NOVA has been asked to assist in providing alternative power solutions to LTI's Managed Solutions portfolio. Microwave antenna sites are often remote and low-power, making solar and wind power solutions ideal. With the world become more energy and environmentally conscious, NOVA Power is excited to be broadening our horizons by complementing LTI DataComm.

### 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.

**LTI DataComm**  
23020 Eaglewood Ct. #100  
Sterling, VA 20166  
[www.ltidata.com](http://www.ltidata.com)  
800-677-5050