

ETI's Rugged Tactical Power Products

Energy Technologies' (ETI) products are the standard in rugged, high-reliability power conditioning for defense, industrial, medical and telecommunications sectors. These modular products are in use around the world including Intelligent UPS, Inverters, PDUs, Frequency Converters, DC battery backup systems and Computing Equipment.

Our rugged TacticalPower® Series of AC and DC power conditioning products are readily deployable worldwide quickly providing the Warfighter with dependable computer-grade power for all C4ISR applications. Medical-grade versions are also available.

Unlike other inverter solutions, the TacticalPower inverters are self contained and can be quickly setup in the field without any tools. Standard NATO Slave cables allow quick connection to HMMWV power bringing AC online in less than 2 minutes.

Where some form of local AC power is available, whether good or bad, ETI's global power conditioners convert any world voltage and frequency into clean sinewave 50, 60 or 400 hertz AC power; allowing computer and communications equipment to be reliably used anywhere worldwide.

A variety of sizes and configurations are available from the light weight TacticalBriefcase™ versions, which can operate one or more sets of computer and communications gear; up to the higher capacity TacticalRack™ transit case versions that handle larger C4ISR needs. Optional battery modules convert each of these units into a fully functional UPS increasing the overall power availability even during severe power sags and interruptions.

Customer Defined Configurations

Pre-defined and customer defined configurations are available with all the features needed for your specific application. For more details on the Tactical Power plus its available options and accessories, email us, call us or visit the web site below:

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Comparisons between our DC/AC Inverter units and other product

Other inverters must first be removed from boxes to set them up for use, but with ETI's TacticalPower inverters, there is no need to unpack! The unit is self contained and only requires opening the cover and setting it on the ground.

Special cable must often be fastened to other inverters using tools. The ETI setup is simplified and safer. We provide two quick connect input connectors that eliminate the need to "bolt on" input cables.

Once other brands inverters are setup, you plug its cable into your NATO Slave connector on your vehicle. If you have another device needing the NATO Slave, then you have a problem. By using the supplied cable and its quick connection, the NATO Slave connector on ETI's inverters can be used as an output, meaning a second device can be plugged directing into the ETI unit's NATO receptacle.

If the input fuse to other inverters blow, you have a dilemma! Even if you have spare fuses, the input fuse is buried inside their enclosure. Fuse replacement can mean lengthy down time. For added speed and safety, we have included a double pole input circuit breaker that can serve as the master on/off function as well as protect from short circuits.

Other inverters only provide two NEMA 5-15R outlet receptacles. In our designs, additional 120 VAC outlets are provided, six or more.

Most inverters have 1 outlet with a GFCI built-in for user safety. Plugging in certain equipment causes this to trip, taking down all other connected outlets. ETI's units are designed so any one of the individual duplex outlets can be GFCI protected, avoiding the problem of loosing all loads when one is tripped.

Most inverters have no way to filter the air, eventually resulting in failure due to the build up of internal residue causing heat build-up. Our designs filter the cooling air used by the inverter, keeping internal electronics clean, prolonging its life.

Most other inverters provide 120 VAC, but if you have OCONUS equipment, it typically requires 220 VAC, We offer an option for both 120 and 220 VAC output at the same time.

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Tactical Inverters®

Reliable • Mobile • Solutions



Energy Technologies Inc.

Rugged Power ♦ Global Solutions

www.TacticalInverter.com

TacticalPower® Inverters

The field-proven, readily deployable TacticalPower line of power, computer and field-office products is ideally suited for applications requiring high-reliability, rugged construction, compact size and light-weight design. Thousands of TacticalPower units have been successfully deployed worldwide supporting critical applications. They are equally suited for use in airborne, vehicular, shipboard, field or fixed locations in either controlled or harsh conditions.

ETI's TacticalPower line of products are designed for the harsh realities of extreme environments:

Rugged, Reliable yet Flexible - ETI products are designed up front to be rugged and reliable yet offer flexibility of use. This allows our products to serve the specific needs of your application without significant product development efforts. Unlike many other vendors' "ruggedized" products that generally fail due to temperature, moisture, mechanical shock, and/or vibration, ETI's products are designed "rugged" from the ground up to withstand inhospitable conditions for both COTS and MilSpec applications.

Global Mobility - ETI's Tactical products are designed to be deployed to any location in the world. Their rugged enclosures provide portability while protecting the systems within. The electrical inputs are compatible with worldwide AC and DC sources.

Integrated Solutions - ETI offers highly integrated system solutions.

- UPS units with inverters or intelligent power distribution in the same chassis, saving space and cabling while improving reliability.
- Field offices combined w/ inverters, power conditioners or UPS.
- Generators built into containers combined w/UPS systems.

ETI's Product Offerings

ETI designs and manufactures a wide range of rugged tactical products to meet your specific requirements:

- Tactical Inverter®: portable and vehicular
- Tactical UPS® & power conditioners: mobile & vehicular
- Tactical Generator®: portable, trailer and vehicular
- Tactical Power Plant® packaged power plants
- Tactical Fuel Cells® power plant, generator replacement
- Tactical Solar® panels and power systems
- Tactical ECU™ environmental control units
- Tactical Computer Workstation™: mobile and built-in
- Tactical Office™ mobile field office systems

Tactical Inverter DC/AC Power

The Tactical Inverter Series is designed for use with military or commercial vehicles, aircraft or any other equipment with a 12 or 24 VDC source.

- Self contained: available in portable cases, universal fixed mount, or rack mount
 - Standard NATO and commercial no-tool connectors allow quick connection to vehicle power, bringing AC online in less than 2 minutes total.
 - Quick connect NATO input cable available in various lengths.
 - Ability to daisy-chain the NATO Slave cable.
 - Input circuit breaker instead of an inaccessible fuses.
 - Accepts wide range DC input voltage while producing computer or medical grade AC output.
 - Isolated, true sinewave AC outputs.
 - Up to six GFCI or non-GFCI protected AC output connectors.
 - Outputs available with aircraft style circuit breakers.
 - Outputs spaced apart to allow room for wall plug-in transformers
 - Quick-disconnect & wing-nut ground connections.
 - Built-in, easy access electronic documentation available even if the unit is down.
 - Units are light weight and well protected for easy transport.
 - Washable, easily replaceable, intake air filter assembly
 - Equipped with lockable tie downs for security.
- Visit www.Tacticalinverter.com for more details!



Tactical UPS and Power Conditioners

Tactical UPS and power conditioners provide highly reliable AC and/or DC computer or medical grade power. These units can operate from any AC, regardless of voltage or frequency. Some models can also derive power from vehicular, aircraft or Solar DC.

- ETI's global power conditioners and UPS convert any world voltage and frequency into clean 115, 120 or 220 VAC sinewave at 50, 60 or 400 hertz.
- True Online Design: Quality power for critical loads
 - Wide range global AC & DC inputs
 - Brownout & Overvoltage Protection with Blackout Protection from UPS models
 - Intelligent Monitoring and Control options
 - Mounting: Rack mount, Briefcases, NEMA & Custom
- Visit www.TacticalUPS.com for more details!



Tactical Solar

Tactical Solar Panels generate power for your mobile electric and battery charging applications.

Tactical Solar Systems are rugged portable briefcases or suitcases combining inverters chargers and/or batteries w/ solar panels, for more power capacity and reliability in the field.

- Output power from multiple Tactical Solar panels
- Built-in charge controller to charge batteries or provide 12/24 VDC directly to electronic equipment
- Can charge Lead Acid, Li-Ion, NiCad, NiMH & other types of rechargeable batteries.

Visit www.TacticalSolar.com for more details!



Tactical Office

A complete system, providing the convenience of a modern office, yet deployable worldwide at a moments notice. Various modules can be configured to meet the needs of your applications. These modules include:

- **Tactical Inverters, UPS or Power Conditioners** can be built into the drawers of the Tactical desks or configured for universal mounting to any surface. These units take any available AC and/or DC power and produce computer-grade output power with or w/o batteries.
 - Regenerates source into pure, sinusoidal power
 - Increases operational reliability of all connected equipment, i.e. computers, notebooks, comm gear.
 - Wide-range AC input voltage and frequency to operate from any local grid power or generator
 - Wide-range DC input from most vehicles or aircraft
 - Optional internal batteries for UPS functionality.
- Visit www.TacticalOffice.com for details!



Built-In Documentation:

As most of us know, the paper documentation rarely follows equipment into the field. The manuals that make it to the field often are damaged due to rough handling. ETI has a solution. Each of the TacticalPower units incorporate our patent pending eDocs Port™. By connecting to this USB port, the user has ready access to electronic versions of all the manuals and technical information.

