

Tactical Solar Shelters®

Energy Technologies, Inc. (ETI) has teamed with Utilis USA to offer solar solutions for deployable shelters. Utilis manufactures a series of rapidly deployable, soft-walled, tactical shelters. By combining ETI's portable solar products with Utilis shelters, either company can offer a total solution to meet your requirements.

ETI's Tactical Solar Shelters (TSS) offer up to 1680 watts of solar power for each 10' x 20' shelter section. These shelters provide an excellent choice for applications that require lightweight, flexible, durable and silent power. The solar covering also serves to insulate the shelter, thereby reducing power required for heating/cooling and solar heat load by up to 41%.

Applications: Recharging batteries or directly providing AC or DC power for electrical/electronic loads: i.e. field radios, satellite transceivers, cell phones, GPS, computers, lighting, hvac, etc.

Benefits and Features

- Integrates lightweight, rugged Tactical Solar® flexible solar panels directly with shelter fly.
- Power conversion and storage units are integrated into rugged portable enclosures providing easy deployment and equipment protection.
- Quick shelter setup in as little as 3-minutes.
- Systems can also use DC input from military or emergency vehicles or input from any AC source.
- Various DC and AC output voltages are available.
- Reduces risk and cost of logistical support.
- Reduces reliance on extra batteries.
- Protects equipment and personnel from weather.
- Panels can also be draped over other structures or vehicles, or simply laid out on the ground.
- Non-reflective solar panels have a matte finish.
- Available in various fabrics and colors.
- Silent Operation. • Minimal Heat Signature.



www.TacticalSolarShelter.com

Personal Solar Panels

ETI offers a range of solar panels for your mobile power generation needs. Our **Personal Solar Packs** include cables and connectors to charge your USB or notebook devices or charge an included battery pack. The included battery pack can be used to recharge the battery packs of your individual devices, or can power the devices directly with or without their own internal batteries.



ETI offers other Tactical Solar solutions, for example, the **Foldable Solar Charger** powers most small USB devices and/or recharges AA or AAA batteries. Ultra compact, lightweight yet very durable, it is ideal for everyday use, charging AA or AAA batteries in only a few hours.

- UV resistant / Weather resistant
- Reverse blocking diode.
- Cigarette lighter adapter.
- Daisy chain multiple units

www.Personal-Solar.com

Tactical Solar Battery Modules

Energy Technologies offers a range of battery modules to be used in conjunction with our Tactical Solar product line. These modules come in rugged, water-proof transit cases with luggage handles to aid in transport.

Multiple battery modules can be daisy-chained together to provide longer battery times. Used in conjunction with our charging systems, these modules can store power to run your equipment for hours in low light conditions or after the sun has set.



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Rugged Power ♦ Global Solutions

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Tactical Solar®

Global Power Solutions

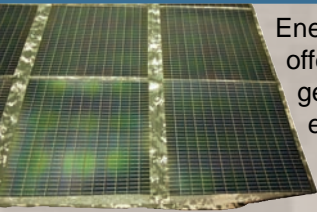


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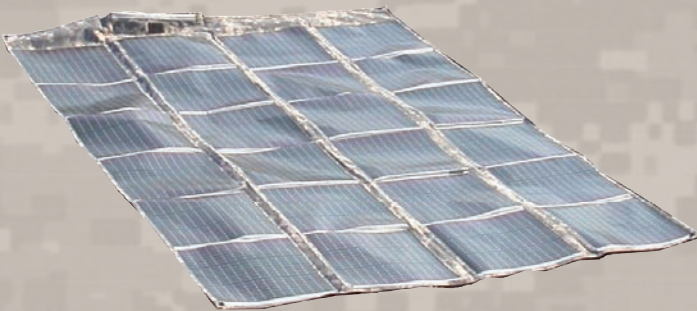
www.TacticalSolar.com

Solar Panel Overview:



Energy Technologies, Inc. (ETI) offers Tactical Solar® panels to generate power for your mobile electric power and battery charging applications.

- 2.5 Watt to over 5000 Watt output panel sets
- Parallel and series configurable for higher wattage and/or voltage
- No electrical noise or interference
- No audible noise and minimal heat signature
- Durable lightweight construction
- Tested to Mil Std 810F
- Folds into a compact package
- Most panels store inside Solar Briefcases
- Corner grommets for tie downs
- Available in woodland green, desert tan, camouflage and black



Benefits

- Reduces need for carrying additional heavy, bulky batteries.
- Enables extended missions with renewable power.
- Enables field charging of batteries, cell phones, PDA, GPS, radios, laptops and other electronics for maximum performance.
- Can power electronics directly without having to carry external power supplies & connectors.
- Excellent power to weight ratio versus other power technologies.
- More cost effective as compared to the overall costs of primary batteries, generators, etc.

Solar Briefcase™ Solutions

Solar Briefcase I

ETI's mini portable solar power solution: our small, light-weight system.

- Up to 110 Watt output power from Tactical Solar panels which store in the case.
- Built-in Charge Controller to charge external batteries or provide 12, 24 or 48 VDC output directly to electronic equipment.
- Can charge Lead Acid, Li-Ion, NiCad, NiMH and other types of rechargeable batteries.
- Available with global power adapters and cables.
- Can operate in harsh environments with the lid closed on its water proof case.



Solar Briefcase II

Same as *Solar Briefcase I* but includes an internal battery module

- Provides power storage capability
- Increased continuity of operation for variations in sunlight and/or night conditions.

Solar Briefcase III

Same as *Solar Briefcase II* but also includes a DC to AC Inverter 120 VAC output (220 VAC optional).

- Allows use of AC & DC power adapters



Solar Briefcase IV

Same as *Solar Briefcase III* with the added feature of multiple DC outputs:

- DC/DC converter for multiple DC Outputs: 3.3, 5, 12, 18, 24 VDC available
- Eliminates the need for power adapters

Solar Suitcase™ I

A more powerful version of *Solar Briefcase IV*:

- Includes up to 6 solar panels for higher power portable applications
- Built into our tactical carry-on luggage w/ wheels and handle



Custom Configurations

A range of solar charging, energy storage and power conversion systems are available to ensure your panels provide reliable regulated power without peaks or sags in voltage or current. Tactical Solar is available in numerous configurations to meet your application's power and packaging requirements.

Solar Panel Features

Portable

Easy transport and storage. Tactical Solar panels consist of multiple mini-cells connected in a foldable design for optimal convenience. Easily stored in backpacks, clothing pockets, or briefcases.

Quick Deployment

Simply unfold in the sun and attach the power connection and the Tactical Solar panel immediately starts to provide power.

Durable

Unique flexible substrate combined with tough, tear and rip resistant nylon material creates robust solar panels. Having holes cut, punctured, or shot through the solar cells reduces the surface area available to charge, but the unit can continue to operate.

Silent Operation

Effective power generation without noisy moving parts to draw attention.



Daisy Chainable

ETI's solar panels can be parallel and/or series connected for increased output wattage and/or voltage configurations. Create the configuration needed for your application.

Wide Thermal Operating Range

ETI's Tactical Solar panels operate from -40°C to 80°C temperature range, and are less impacted by temperature extremes than other types of solar panels.

Weatherproof & UV Resistant

Multilayer construction seals out the environment for lasting operation and protection.

Anti-Glint Coating

Eliminates reflection, reducing detectability.

Versatile

Tactical Solar panels continue to power under cloudy skies. When connected to batteries, the surplus energy can be used at nighttime. The Solar Panels can also be used as thermal shading blankets to keep batteries or other equipment cooler during direct sunlight.

Stable Over Time

Reliable performance continues for many years, unlike other photovoltaic materials that can rapidly decline with use.

Environmentally Smart

"Green" energy from a renewable power resource.