



166 Taylor Rd. Depew, New York USA 14043
Ph: (800) 310-7413 or (716) 683-2505 Fax: (716) 683-8655
Email: sales@nationalsolaronline.com
Web: www.nationalsolaronline.com



GSA Contract No. GS07F-0108J

Applications

- Emergency/Disaster Relief Power
- Communications Power
- Backup Power
- Oil/Gas Telemetry Power
- Construction Sites
- Repeater Site Power
- Anywhere You Need Power

Standard Features

- Engineered To Outlast The Competition
- Trailering speeds of up to 60 MPH
- High Efficiency Solar Panels
- DOT Certified Trailer
- Leveling Jacks On Trailer
- Up to 25 Year Solar Panel Warranty
- 5 Year Controller Warranty
- 2 Year Battery Warranty

Battery Technology

- Sealed Battery(s)
- Maintenance Free, Non-Spillable
- Long Life of up to 7+ Years

Benefits

- No Trenching For Power Cables
- Quiet Operation
- Not Affected By Power Outages
- No Generators to Refuel
- No Special Skills Required To Operate

N S T
NATIONAL SOLAR TECHNOLOGIES

*“World Leader in Solar Power Sources
and Solar Lighting Systems”*

Trailer Mounted Solar Power Systems



System Options

- Wind turbine
- Any AC or DC voltage output
- Expanded power storage
- Building hard wire package or plug and go package
- Remote system monitoring package
- Pintle hitch or conventional ball style hitch
- Electric braking system
- Light fixture(s) mounted onto the trailer mounted system for nighttime illumination

Standard Solar Panel Specifications

- Tempered glass / tedlar construction for light weight, durable capsule for solar cells
- Multicrystalline or Monocrystalline solar cells/dark blue solar cell color
- Rigid aluminum frame
- Completely sealed from moisture
- Up to 25 Year warranty on power output/5 Year warranty on workmanship

Standard Battery Specifications

- Sealed lead acid non-spillable battery(s)
- Maintenance free, non-spillable
- Superior battery technology for extreme climates and high vibration areas
- Amp hours vary depending on system
- Built in battery reserve capacity for cloudy / low sun days
- Typical battery operating life of up to 7+ years

Standard Solar/Load Controller Specifications

- Solid state solar controller with load regulation
- Pulse width modulation (PWM) charging
- Low voltage disconnect
- High voltage reconnect
- Regulates battery charging from the solar panel
- 12/24/48 Volt DC regulation
- Typical operating life 15 years

Standard Battery Enclosure Specifications

- Steel, powder coated, corrosion resistant enclosure
- Available in aluminum and stainless steel
- Available in most RAL colors
- Vented for airflow and heat dissipation
- Pole mount bracket.
- Houses battery(s) and controls
- Life expectancy 25+ years

Circuit Protection

- Fuse block or circuit breakers which protects the solar power input, battery power and power output to load(s)
- System grounding lug for ground connections

Standard Output Voltages Available

- Systems are available with single voltage outputs or multiple DC and or AC voltage outputs
- 5VDC to 48VDC Outputs
- 24VAC to 240VAC Outputs
- Special voltage requirements also available
- Pure sine wave AC voltages (unless otherwise specified)
- Regulated DC voltage outputs available

Trailer Specifications

- Flat deck DOT Certified trailer with standard tire size
- Heavy duty spring suspension
- Pintle hitch or ball style hitch
- Deck over wheels construction
- Leveling jacks around perimeter of trailer deck

Wires and Hardware

- Connecting wire harnesses for the battery, solar and light fixture
- Mounting hardware

Frequently Asked Questions

• How does an NST solar power system work?

An NST power system consists of some of the same components that are found in NST lighting systems. Both are built to perform certain tasks, have it be lighting or general power needs. A typical NST power system consists of solar panel(s) and or a wind turbine(s) to generate energy. That energy is transferred to a central power system that stores the energy and either keeps the energy as Direct Current (DC) or steps it up to Alternating Current (AC). NST power systems can be portable or stationary depending on the amount of power needed. Solar panels can be pole mount, roof mounted or simply placed in the sunlight at your convenience. Wind turbines, depending on their dimensions can be pole mounted, roof mounted, or tower mounted. NST can provide a power system to match any need small or large.

• What can I operate from my NST trailer power system?

Some power systems operate small electronic devices such as energy efficient TV's, small water pumps, communications equipment, lights, laptops, radios, charge power tools, etc. Some of the larger systems can provide backup power for small buildings and power remote sites continuously. NST's application team will help you through the time of deciding what NST power system is right for you.

• What voltage outputs are available?

A wide variety of voltage outputs are available. They are typically 120VAC, 240VAC, 24VAC, 12 VDC, 24VDC, and 48VDC. Other voltages are available with various wattage outputs as well.

• How do I know what system is best for my application?

National Solar Technologies will factor your power requirements, geographic location, load operating time per day and other engineering equations to formulate the perfect NST power system for your application.

• Can I add onto my NST power system at a later time if my power requirements increase?

Yes, most NST power systems are easily adapted to adding on additional solar panels, batteries and regulating controls.

• Where can I purchase NST trailer mounted solar power systems?

Call 1-800-310-7413 and an NST representative will assist you.