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New York State  
Contract PC64694

Contract GS07F-0108J

### Applications

- Remote Power
- Communications Power
- Backup Power
- Oil/Gas Telemetry Power
- Camera/Security Systems Power
- Repeater Site Power
- Anywhere You Need Power

### Standard Features

- Engineered To Outlast The Competition
- High Efficiency Solar Panels
- System Circuit Protections
- 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
- No Utility Bills
- Not Affected By Power Outages
- No Generators to Refuel
- No Special Skills Required

## Skid Mounted Commercial Grade Solar Power Sources



\*Skid mounted units can be moved via fork truck and on some smaller models moved manually.



Small Skid Mounted Solar Power Sources With AC and or DC Power Outputs.



Large Skid Mounted Solar Power Sources With AC and or DC Power Outputs.



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

### **Notable Customers**

- US Military/Dept. of Defense
- Military Testing Facilities
- US Dept. of State
- Remote US Counter-Terrorism Training Facilities
- US Army Reserve

### **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 absorbed glass mat (AGM) battery
- 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 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**

- Aluminum frames and Enclosures
- Available in mild steel and stainless steel
- Available in most RAL color
- Vented for airflow and heat dissipation
- Fixed Tilt Solar Panel Array
- 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

### **Standard Solar Panel/Skid Mounting Structures**

- 6061/5052 aluminum corrosion resistant brackets
- Galvanized steel available
- Powder coated steel/aluminum available

### **Wires and Hardware**

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

### **System Options**

- Wind turbine options
- Generator back-up options

### **Frequently Asked Questions**

#### **• How does an NST solar power system work?**

An NST solar power system uses the solar module(s) to charge battery(s) using the free solar energy. The sunlight that is absorbed by the solar panel is converted into Direct Current (DC) electricity. Generally the solar DC charging voltage is 12, 24 or 48 Volts DC. This voltage charges the system batteries. From the system batteries you can use the battery voltage to power devices or use DC to DC converters to get a different DC voltage or use a DC to AC power inverter to get AC voltages to power your electrical devices .

#### **• 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 my NST solar lights and NST solar power systems?**

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