

Solar Electric Generators

Mesotech offers a series of high quality, self-contained solar power systems designed to provide continuous, reliable power in remote or isolated locations. We use high efficiency solar electric modules to charge long life, deep cycle batteries. The batteries then provide steady, reliable power to the load with sufficient storage capacity to operate at night and during extended periods of cloudy weather. Solid-state controls protect the batteries from overcharging and excessive discharge, and have LED indicators to show system status at a glance.

The enclosures and array structure are fabricated from heavy gage marine aluminum or galvanized steel for long life and superior corrosion resistance. The battery box is fully insulated and vented, and can be bolted and locked. The solar array is positioned to shade the battery enclosure during the summer, protecting the batteries from overheating, and is designed to withstand hurricane force winds.

Our generators integrate the highest quality components into a carefully engineered package designed to provide dependable power and years of trouble free service. The advantages include lower cost, shorter installation time, and fewer errors because the unit is fully assembled and tested prior to shipment.

Features:

High efficiency modules	Generous battery reserve
Solid state controls	Five year warranty
Long-life deep cycle batteries	20+ year design life
Heavy gage construction	Non-corrosive parts
Assembled and tested	Low maintenance costs

Ordering Information

- Twenty standard generators from 5 W to 1000 W.
- Custom or larger generators available.
- Enclosures in steel, aluminum, stainless steel, and fiberglass.
- Pole mount, tower mount or handrail mount on small units.
- Upright or detachable battery enclosures.
- Battery chargers or AC inverters optional.
- Consult our factory experts for specific recommendations for your requirements.



Technical Specifications

Solar Module:	High efficiency crystalline silicon with expected life exceeding 20 years. Warranted for at least 10 years. Features low iron, anti-reflective, hail resistant glass, corrosion resistant aluminum frames and stainless steel fasteners. Unbreakable modules with TEFZEL front are optional.
Batteries:	Low maintenance, sealed immobilize electrolyte lead acid construction. Batteries are spill proof and leak proof, have low self-discharge rate, and high charging efficiency. They will tolerate freezing and extended partial state of charge. Warranted for 1 full year and 4 years pro-rated.
Controller:	Solid-state design includes temperature compensated, high efficiency shut regulator with an integral anodized aluminum heat sink. A low voltage load disconnect protects the battery from over discharge damage in the unlikely event of a system failure. The controller is completely encapsulated, and has transient surge protection.
Enclosure:	Minimum 12 gage welded steel construction hot-dipped galvanized. Meets NEMA-3R specifications. Vent lid can be bolted and locked. Some units have fiberglass, aluminum or stainless steel enclosures.