



SOLAR4™ POWER 480 SOLAR GENERATOR SYSTEM



DESCRIPTION

CME's *solar4™ POWER* product line includes *solar4™ POWER 480*, a rugged Solar Generator System that is a commercially available, integrated solar panel and case assembly that provides a portable, out of the box, rugged transit case with a solar panel mounted in each half of the case. Also included is a portable, carry-on luggage style rugged generator case. The two halves of the panels separate when opened allowing each panel to be angled and directed toward the sun independently. The two panels are connected in parallel using a provided "Y" cable.

The panels can be set to elevation angles of 0°, 30°, and 45°, to accommodate different geographic locations and seasons. Together the panels provide over 480W power compatible equipment for conditioning and stabilizing. Multiple assemblies can be interconnected to provide additional power.

Since each panel can be angled and aimed independently, energy harvesting can be optimized for any location and load requirement. The assembly is fully transportable with the solar panels protected from shipping damage and stress. Set up in less than 5 minutes, the integrated solar panels can be used with CME's solar generator case that provides field-ready battery storage, power control, and power outlets to provide power for loads.

APPLICATIONS

The solar4 POWER 480 provides the basis for a deployable solar power generator system that is ideal for:

- Isolated area and off-grid power source
- Mini-grids
- Emergency Response Teams
- Humanitarian Assistance
- Disaster response
- Law Enforcement/Public Safety
- Field maintenance teams
- Field research and photo journalism
- RV and camping
- Military operation centers

KEY FEATURES & BENEFITS

- A portable off-grid power source for zero emissions
- solar4 POWER 480 provides a portable solar generator in a portable carry-on luggage style rugged case with integrated battery/inverter that includes 4 AC outlets and 2 DC outlets and includes an integrated solar panel case assembly
- System is water-resistant, corrosion-resistant
- Two panels, per single case for 480W; "Y" cable for combining two solar panel outputs. Modular solar panel array is expandable with added panels
- Panels are self-supporting assembly with easily adjustable elevation angles (0°, 30°, and 45°)
- Quick setup and teardown; two-man carry panel case is Ruggedized and Stackable (5 high)

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SPECIFICATIONS

SOLAR GENERATOR CASE	Sealed AGM Battery (35Ah, 420Wh) and Inverter. Power Case includes 4 AC outlets & 2 DC Outlets; Portable Battery Charger included
OUTPUT VOLTAGE	44 VDC maximum power, 52.3 VDC open circuit voltage
MAX OUTPUT CURRENT	5.17A per panel, 10.3A per case, 11.3A short circuit current per case with solar radiation of 1000W/m ² , 77°F (25°C) panel temperature
POWER OUTPUT RATING	480W solar output typical
OVERLOAD PROTECTION	15A fuse in each panel
DIMENSIONS	Generator Case Assembly: Rugged Generator Case: 22 x 14 x 9 inch Solar Panels: 64.25 in (163.195 cm) L x 37.25 in (94.615 cm) W x 12.25 in (31.115 cm) D
ASSEMBLY WEIGHT	Portable Generator: 35 lb; Panel Array Case: 143 lbs
PANEL STACKING	Five high
CONNECTORS	MC4 male and female cabling: Attached solar panel, 3 ft (0.914 m) cable and 2 each, "Y" adapters
AMBIENT TEMPERATURE	-40°F to 115°F (46.11°C) operating, monthly average temperature
RELATIVE HUMIDITY	10 to 100 percent non-condensing
ACCESSORY OPTION	Additional panel case assemblies, additional cables

