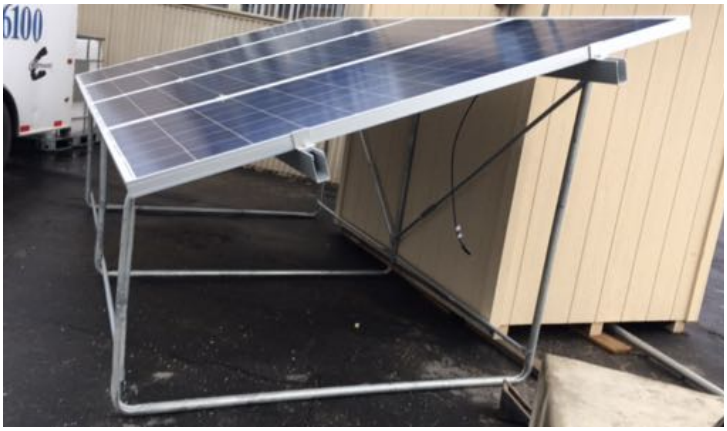
FEMA-1

Prefab Off-Grid Solar System



FEMA-1 is a Prefabricated Off-Grid Solar System, designed for rapid shipping and setup. This complete solar system has a unique design, which provides AC power without batteries or complex equipment. When the sun shines, the inverter supplies AC output power.

The PowerHub can be fully integrated, and comes preconfigured for:

- **Free-standing solar array**
- **1200W of Solar Power, Four 290W Modules**
- **Galvanized Metal Frame for Corrosion Resistance**
- **Folding Support Legs to Reduce Size in Shipment**
- **Off-Grid 1200W Power Inverter, 120V/10A**
- **Standard USA Electrical Outlet, with Cord Hood**

Fine Print:
Installation not included.
Purchaser is responsible to confirm requirements of local zoning and building code.
Manufacturer reserves the right to make changes to reflect updates or corrections.

SOLAR POWER WHEN UTILITY POWER IS OUT

Now you can use solar to power remote electrical equipment. The Off-Grid inverter operates without utility or generator power. Power is generated when the solar panels are in full sun.

USA VOLTAGE STANDARD

Inverter output is standard 120V, 60Hz format. The power outlet is a GFCI receptacle, protected by a metal rain barrier.

COLLAPSABLE STRUCTURE FOR TRANSPORT

Support legs can be collapsed to reduce height. Each array is shipped as a 6' x 14' x 12", 410lb bundle.

EASY INSTALLATION

System is delivered pre-wired and ready to erect. Installation can be completed in less than 1 hour.

ANCHOR TO EXISTING STRUCTURES

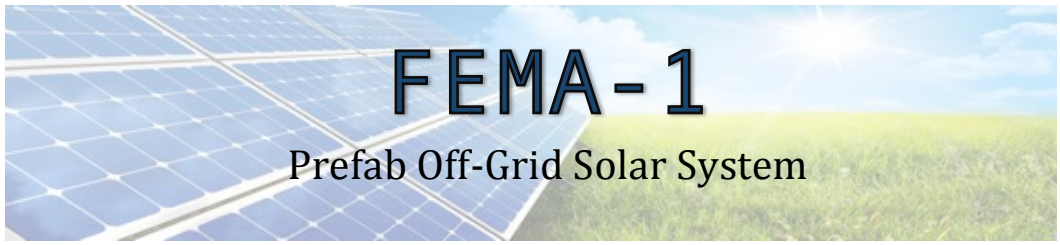
Support legs are flush on the front and rear, enabling quick attachment to existing fences or building walls.

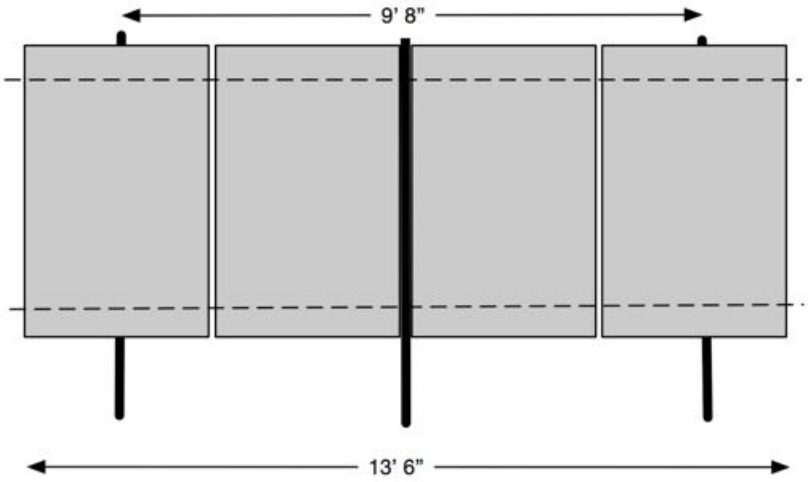
ABOUT SUNNYCAL SOLAR

We have been providing turn-key solar power systems for more than a decade. From our production facility in Central California, we ship direct to customer sites, and have a network of trained installation contractors.

Find out more

SunnyCal Solar Inc. 842E CA-88, Jackson, CA 95642, fema@sunnycal.com (209)-464-6100





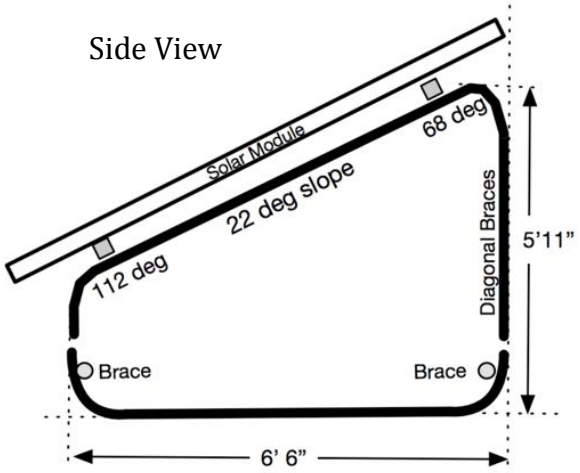
Front View

Power Inverter Specifications

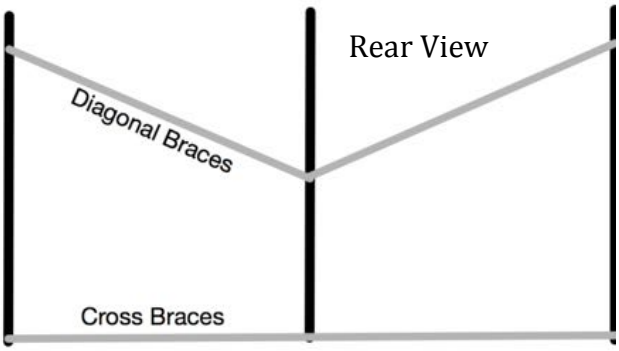
DC Input (per Channel)	60 / 72 Cell Panel	Battery*
Recommended Input Power	250W – 330W	48V, 50AH – 300AH
Operating Input DC Voltage Range	15V – 58V	47V – 58V
Peak Power Performance Range	30V – 58V	48V – 58V
Maximum Input DC Voltage / Current	58V / 9A	58V / 9A
Maximum Input Power	300W	300W
Minimum Starting Voltage	20V	47V
AC Output	Data	
Rated Output Power / Peak Output Power	960W / 1150W	
Startup Surge Power for 12 Seconds	1500W (Max Surge DC Power = 400W per Channel)	
Nominal Output Current (RMS)	8A (RMS – Root Mean Square)	
Nominal Output Voltage / Range	120V (108V – 132V, Single-Phase)	
Nominal Frequency / Range	60Hz (59.5Hz – 60.5Hz)	
Power Factor	>0.95	
Efficiency	Data	
Peak Efficiency / MPPT Tracking	96% (99%)	
Mechanical Data	SI	U.S.
Ambient Temperature Range	-40°C to +65°C	-40°F to +149°F
Internal Operating Temperature Range	-40°C to +88°C	-40°F to +190°F
Dimensions w/o mounting bracket (L x H x W)	32cm x 24cm x 5.8cm	12.5" x 9.5" x 2.3"
Weight	6.5 kg	14.25 lbs
Cooling / Enclosure	Natural Convection, No Fan / Potted	
DC / AC Wire and Connectors	1 and 2 Feet DC Wire, MC-4 Connectors / 4 Feet AC wire	
Features and Compliance	Data	
Safety and EMC Compliance	UL1741 and IEEE1547 (E113426), CSA 107.1, FCC Part 15 Class A	
Compatibility	Most 60-Cell and 72-Cell PV Solar Panels	
DC Ground Fault Detector Interrupter (GFDI)	Built-In	
Standard Warranty	3 Years (Extended Warranty Available)	
Enclosure Environmental Rating / Safety	Outdoor – NEMA 6 / Transformer Isolated Circuits	
Built-in Battery Over Discharge Protection	Low Voltage Disconnect (LVD) on Battery Channels.	

Inverter Specifications, Copyright Cybo Energy Inc.

Side View



Rear View



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