



FEMA-2

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 FEMA-1 is available as a structure, structure+modules, or a complete system with on-board Daylight Inverter.

- **Free-standing solar array**
- **1200W of Solar Power, Four 280W Modules**
- **Galvanized Metal Frame for Corrosion Resistance**
- **Folding Support Legs to Reduce Size in Shipment**
- **Off-Grid 3000W Power Inverter, 120V/25A**
- **Standard USA Electrical GFCI Protected Outlet**
- **Optional Daylight Inverter, makes power when the sun shines 1200W, 120v 10A**

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.

Formats available:

Structure only

Structure+ Modules

Structure+Modules+ Daylight inverter

Structure+Modules+ Battery+Off-Grid inverter

SOLAR POWER WHEN UTILITY POWER IS OUT

Now you can use solar to power remote electrical equipment. The Off-Grid "DayLight Inverter" operates without utility or generator power. Power is generated when the solar panels are in full sun. If nighttime power is needed, battery and off-grid inverter is available.

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.

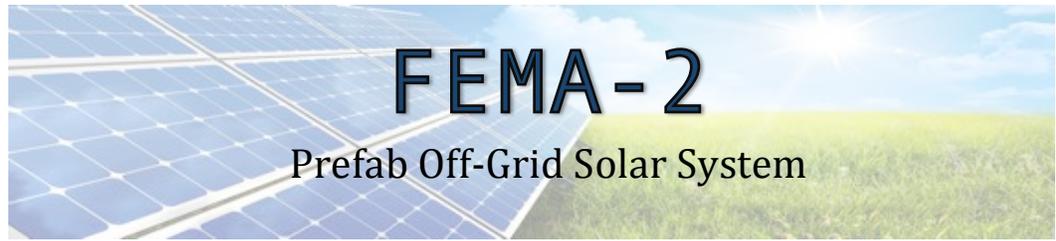
EASY INSTALLATION

ABOUT SUNNYCAL SOLAR

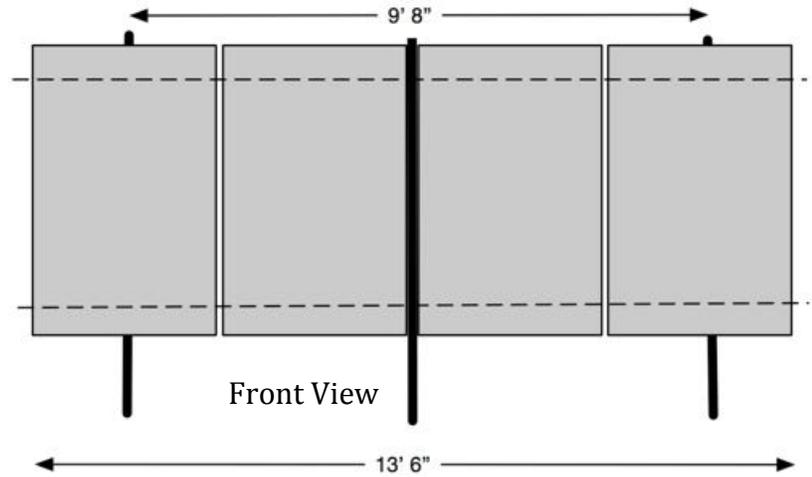
We have been providing turn-key solar power systems for more than a decade. From our production facility in Central California, we ship direct to customer sites, and have a network of trained installation contractors.

Find out more





Daylight Inverter with power receptacle



Daylight 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.	

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