



800 Watt High Performance Solar Kit - Off Grid



200W Solar Panels x 4



800W Power Inverter
with Connecting Cable



60Amp MPPT Charge
Controller



Mounting Z bracket
x 4set



4 in 1 SAE to Bare end Cable
14AWG(SAE end) / 10AWG(Bare end) / 9.8 Ft



Battery Clamp to Bare end cable
10AWG / 3.3 Ft

Features / Solar Panel

- Aluminum Frame, Rugged Design
- High Efficiency Solar Cells Power Up to 200W each panel.
Continuously recharge your 12V batteries with the power of the sun.
- Includes mounting Z-brackets
- Connect additional panels for a faster charge
- 25 year warranted to generate up to 80% of rated power



SPECIFICATIONS

Solar Panel / Each

Solar Panel: Monocrystalline

Maximun Power : 200 Watt

Voltage at Pmax(Vmp): 20.75 V

Current at Pmax(Imp): 9.62A

Max Current When Using MPPT Charge

Controller: 13.3A

Open circuit voltage(Voc): 24.75 V

Short circuit Current(Isc): 9.96 A

Operating Temperature: -40°C to + 85°C

Maximum System Voltage: 1000VDC

Protection Class: Class A

Material: Aluminum, Glass constroction & Steel

80AMP MPPT Solar Charge Controller



Battery Temperature Sensor

Features

The controller adopts the leading Power Catcher maximum power tracking technology in the industry to achieve maximum energy Tracking for solar panel. Equipped with an LCD display screen to simultaneously support data interaction, setting and other operations with mobile phone APP or PC.

- **MPPT charge efficiency is greater than traditional PWM charge efficiency by about 15% ~20%.**
- **MPPT Tracking efficiency can be as much as 99.9%.**
- **Preset a variety of battery types: lithium / sealed / colloidal / open batteries and self- definition.**
- **With charging line loss compensation, the voltage of the battery terminal can be accurately controlled.**
- **Available for 12V/24V/36V/48V battery system**

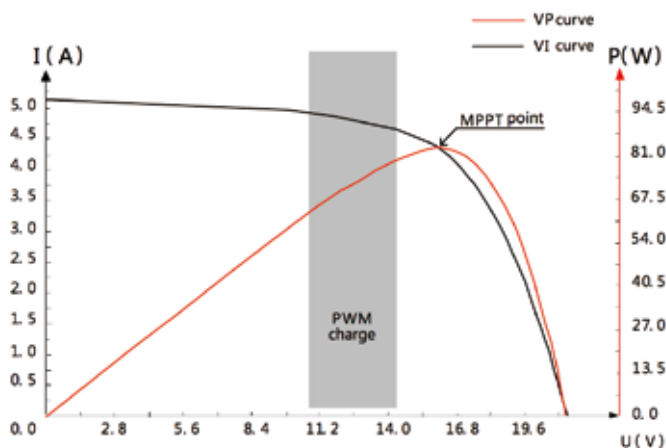
MPPT

Maximal Power Point Tracing system is an advanced charge technology where the operation state of the electric module is adjusted so that the solar battery can output more electric energy. Owing to the nonlinear characteristics of solar battery array, there is an array of maximal energy output point (maximal power point), the traditional controller (PWM) cannot maintain storage battery charging at this point. the solar controller with MPPT control technology can trace the maximal power point of the array to acquire the maximal energy to charge the storage battery.

Compared with PWM controller, MPPT can improve energy utilization ratio by 15%~20%.

SPECIFICATIONS

Charge Controller Type: MPPT
Rated charging current: 60A
System Voltage: 12V/24V/36V/48V
Battery Type: SLD / GEL / Flooded / Lithium / Program
Cooling: Fan
No-load loss: 2 W
Battery voltage: 9V~64V
Maximum PV open-circuit voltage: 150V
Max Power of solar panel (12V System): 800W
Max Power of solar panel (24V System): 1700W
Max Power of solar panel (48V System): 3300W
Charging conversion efficiency: $\leq 97.8\%$
MPPT tracing efficiency: $>99.5\%$
Communication way: RS485.
Protection grade: IP20
Protection: Overcharging protection / battery over discharge protection / PV anti-reverse protection / reverse charge protection at night / interior over temperature protection / over-current protection in charge



Output Characteristic Curve for Solar Battery

Nature Power 800 Watt Power Inverter



SPECIFICATIONS

AC OUTPUT

Power: 800W (Continuous), 1600W(Peak)

Voltage: 110±10% Vac

Frequency: 60±3 Hz

Waveform: Modified sinewave

AC Outlet: 2 x 3Prong AC outlet

DC OUTPUT

USB: 1 x 5V/2.1A

DC INPUT

Voltage (nominal): 12.8-13.2Vdc

Operation Range: 11.0-15.0Vdc

Material: ABS, Stell, Aluminum

PROTECTION:

Input Undervoltage Warning: 10.2-10.8Vdc

Input Undervoltage Shutdown: 9.2-9.8Vdc

Input Overvoltage Shutdown: 15-16Vdc

Overload Shutdown: Yes

Output Short circuit Protection: Yes

Over Temperature Shutdown: Yes

Features

Convert battery power to household AC power

- *2 x AC Outlets and USB Charger Allow You to Run Multiple Devices at The Same Time*
- *Runs Home Appliance, TVs , Power Tools and More*
- *800 Watts Continuous Output, 1600 Watts Surge*
- *Comes With Battery Connect Cables*
- *Compact Size*



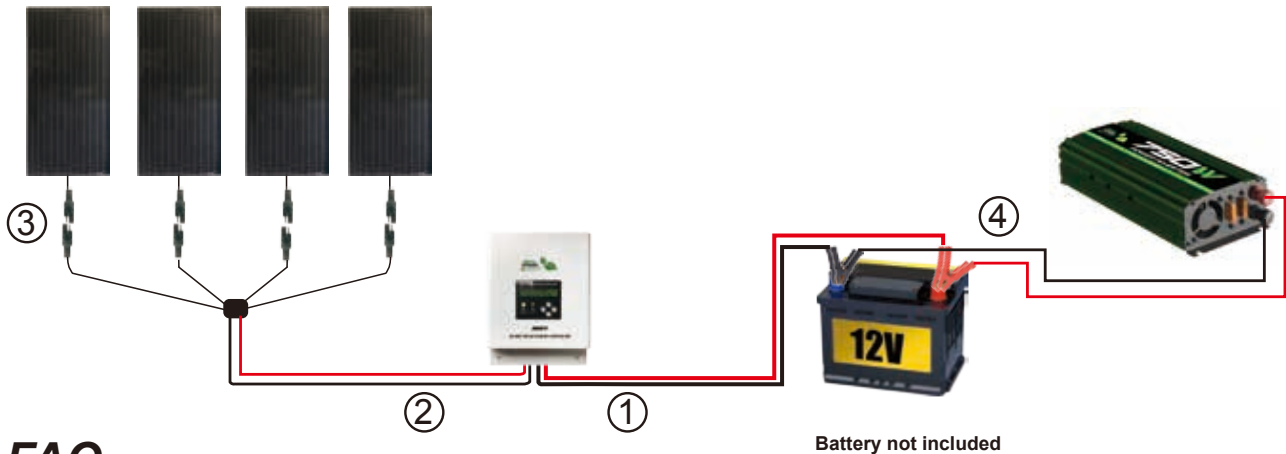
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Weekly Power Chart

All run times/ratings are estimates only and may vary depending on your location, time of day, time of year and are based on 7 Hours of full sunlight per day.

Solar panel Rated Hourly (Maximum output)	400W	800W	1200W	1600W
	19.24 Amp	38.48Amp	57.72Amp	76.96Amp
Weekly Output	18.8Kw-h	39.2Kw-h	58.8Kw-h	78.4Kw-h
Weekly Power Run Time				
Fluorescent Light 40 watts	470 hr	940 hr	1410 hr	1880 hr
Laptop 20-50 watts	376 hr	752 hr	1128 hr	1504 hr
Fan 80 watts	235 hr	470 hr	705 hr	940 hr
PC 80-150 watts	125 hr	250 hr	375 hr	500 hr
40" Television/ Projector 200 watts	94 hr	188 hr	282 hr	376 hr

Solar Power Kit Connecting



FAQ

- What electrical appliances can work with 800W power inverter?**
 TV, Refrigerator, Iron, Computer, Laptop, Fan, Speakers, vacuum clean, Lights, washing machine, Phone Charger, Water purifier etc.
- Will this kit work with a 12V or 24V battery?**
 Yes, this 80AMP MPPT solar charge controller available for 12V/24V/36V/48V system.
- How do solar systems work?**
 The panel's photovoltaic cells convert the energy in sunlight to electricity, the electricity is then stored in the battery and an inverter will allow you to plug in appliances. there is 4 major components needed to set up your solar off grid system. Solar panels, charge controller to control the charge to the battery bank, a battery for power storage and an inverter to transfer DC power from the battery to an AC power.
- Does the panels need to be in direct sun to work?**
 No, although solar panels produce the highest wattage output in direct sunlight, they will still produce power on cloudy days.
- Do I need a battery to store Power?**
 Yes, a battery is needed to store the power from the solar panel, inverter will also connect to the battery.



SHIPPING DETAILS

Item Number:	53280
UPC Code:	839290005958
Country of Origin:	-
Panel Dims Each LxWxH:	26.6 x 1.38 x 39.7 in
Panel Weight Each:	18.3 lbs
Controller Dims LxWxH:	10.5 x 7.6 x 4.7 in
Controller Weight:	8 lbs
Inverter Dims LxWxH:	9 x 5.2 x 2.5 in
Inverter Weight:	4 lbs
Shipping Dimensions:	64 x 34 x 29 in (On Pallet)
Shipping Weight:	158 lbs



1-800-588-0590

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