



\*Mounting solution is not included



11 Amp Charge Controller



Mounting Screws and Z bracket



SAE to battery clamps cable 1.5mm<sup>2</sup> / 1 meter



SAE to Bare end cable 1.5mm<sup>2</sup> / 1 meter

## SPECIFICATIONS

### Solar Panel

Solar Panel: Monocrystalline

Maximum Power : 110 Watt

Voltage at Pmax(Vmp): 18.9 V

Current at Pmax(Imp): 5.81A

Open circuit voltage(Voc): 22.31 V

Short circuit Current(Isc): 6.27 A

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

### Charge Controller

Maximum Input power: 165 Watts

Maximum Input Current: 11 A

Cut-in voltage: 13 V

Cut-out voltage: 14.2 V

**Material:** Aluminum, Glass construction & Steel

## Features

- Comes with 11A charge controller
- Including solar kit connecting cables
- Modular design ideal for expandable solar systems
- Great for use with RVs, boats, backup power and all 12 volt applications.
- Equipped with heavy duty aluminum frames for strong weather resistance and permanent mounting



## SHIPPING DETAILS

Item Number: 53000

UPC Code: 839290005798

Country of Origin: Vietnam

Panel Dims LxWxH: 26.6 x 1.38 x 39.7 in

Package Dims LxWxH: 28.6 x 2.48 x 41.8 in

Product Weight: 22 lbs with package

18.3 lbs without package

Master Quantity: -

Master Dimensions: - in

Master Weight: - lbs



**1-800-588-0590**

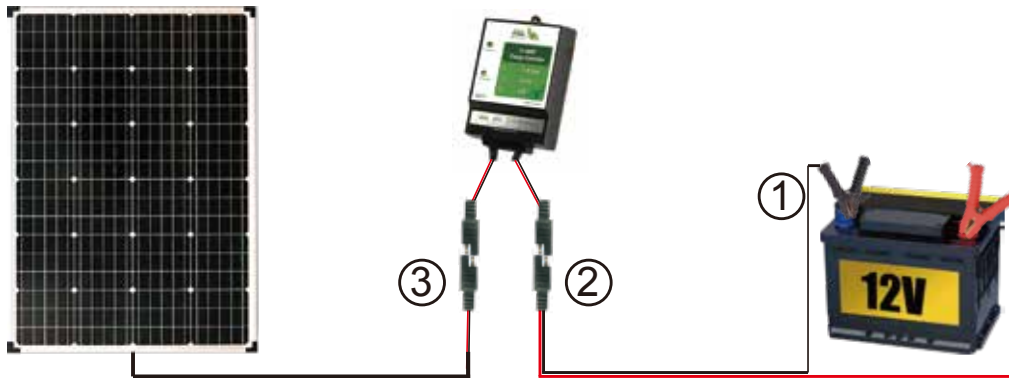
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## Solar Power Kit Connecting



Battery not included

## 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)	110W	220W	330W	440W
	5.81Amp	11.62Amp	17.43Amp	23.24Amp
<b>Weekly Output</b>	5.39Kw-h	10.78Kw-h	16.17Kw-h	21.56Kw-h
<b>Weekly Power Run Time</b>				
<b>Fluorescent Light 40 watts</b>	134 hr	268 hr	402 hr	536 hr
<b>Laptop 20-50 watts</b>	107 hr	214 hr	321 hr	428 hr
<b>Fan 80 watts</b>	67 hr	134 hr	201 hr	268 hr
<b>PC 80-150 watts</b>	36 hr	72 hr	108 hr	144 hr
<b>40" Television/ Projector 200 watts</b>	27 hr	54 hr	81 hr	108 hr

## FAQ

- **Will this kit work with a 12V or 24V battery?**

This is a 12V battery charging system only. Please call Nature Power Customer Service for more 24V system configuration.

- **How do solar system 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.