

POWER WHEN YOU NEED IT... AT WORK, HOME AND RECREATION

Frequently Asked Questions

What is the maximum load I can power?

The maximum load per interface should not exceed 150 watts.

How much power will my system generate?

The power is generated from the solar panel and stored in the battery. The amount of power generated is the size of the panel in watts times the number of sun hours for that day. During the summer months when the days are longer more power is generated than the winter months when the days are shorter. A rough estimate of sun hours is the number of daylight hours divided by 2.

Can I connect the panel directly to my load?

No. The panel's voltage is higher than what most equipment can handle. The panel must connect to the charge controller for recharging the battery.

Can I add a larger panel?

Yes. The panel must be a nominal 12 vDC panel and must not exceed the HotSpot's maximum amperage.

How are power, watts, amps and volts related?

A quick definition is Volts * Amps = Watts. The watt (symbol: W) measures rate of energy conversion. Power is the rate at which energy is generated and consumed. For example, if a 100W light bulb is turned on for one hour, the energy used is 100 watt-hours.

Will the system work at night without the sun?

Yes. Loads are powered from the battery, not directly from the solar panel. The solar panel is only used to recharge the battery.

How long will the battery last?

Under normal use the battery will last 3 – 5 years. The deeper the battery is discharged the shorter the lifespan of the battery. With discharges less than 20% of the battery's capacity the battery can last 5 -7 years.

Do the panels need to face toward the equator?

Toward the equator (South in North America and Europe) is best, but panels installed facing east or west still generate a very high percentage of possible power.

What happens if the panels are shaded?

PV panels should be installed in areas where they get significant shade-free sun every day. Even small amounts of shade can significantly reduce the output.

How much maintenance do solar energy panels require?

PV panels require little maintenance – no need to wash or dust. It is, however, important to place panels where they will remain clear of shade and debris. Thus you will have to wipe them off if too much snow or leaves fall on them.

Does solar work only on sunny days?

Solar systems work even when it's cloudy. Naturally, cloud cover reduces the amount of solar radiation reaching the panels, but the system will produce some electricity.

What type of batteries are these?

These batteries are AGM.

Can I power regular AC devices?

Yes. You will need an inverter.

Call us now! 407.339.6786

Visit our website: www.SolisEnergy.com