



## FAQ

### **INVERTERS**

#### ***What size inverter should I get?***

To calculate your ideal inverter, add up the total wattage requirements of all the equipment you want to power and add 20 percent to the total as a safeguard. Some appliances will surge when they first start up, like microwaves, so we recommend you calculate your wattage requirements based on the high surge value to be safe.

For example, if you add up the wattage of all the appliances that would be running at the same time and it's 3000 watts, then add another 20%, you get 3600.

For the purposes of RVing, a 2000-4000 watt inverter should be sufficient to power your coach consistently and account for surge loads. Our Sol - Powered by the Sun packages that include an inverter use a 2000 watt model.

#### ***How do I hook up my power inverter to my batteries?***

Take a look at our handy [video references](#) to learn how to hook up your power inverter and batteries. .

#### ***How do I calculate what battery size I need for my inverter?***

To calculate the battery size you need for your inverter, take the hours you plan to continuously run your inverter and multiply them by the number of watts the inverter is built for. Then divide by DC volts (12V) and you'll get the number of amps you'll need in a battery.

Run time (hours) x Inverter wattage = Total watts / DC volts = amps required.

Then head over to our partner, [AIMS Power RV](#), to learn more about how to select a battery to best fit your needs.

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### **SOLAR PANELS**

#### ***How do solar panels work?***

Solar panels work by converting sunlight into energy that can be stored in batteries. First, sunlight activates the panels, made up of silicon cells which absorb the sunlight. The cells inside the panels create an electrical field when sunlight strikes them, and the motion of atoms inside the cells creates an electrical current. This is Direct Current (DC) electricity, which needs to be converted into Alternating Current (AC) electricity by an inverter before you can use it.

So next, the DC electricity charges your RV's solar batteries, and then when you draw upon those batteries, the current runs through an inverter to convert it to AC. You can use multiple solar panels in a solar array, and have more than one battery that stores DC electricity for future use.

#### ***How do I install solar panels on my RV?***

When you purchase a Sol - Powered by the Sun solar package, we'll include instructions detailing everything you need to install your solar panels, inverter, batteries and more.

And as always, if you have questions during your installation, you can always reach out to Heartland customer support.

### **QUESTIONS?**

**Heartland Customer Support - 877.262.8032**  
[AIMS Power RV](#)