

# **Solar container outdoor power wattage selection**





## Overview

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How much power does a solar panel need?

In this example we will be located in Tennessee which has 4 Peak Hours (reference: Average Peak Sun Hours by State). Required Power of Solar Panel (without considering controller and inverter loss) =  $6850 \text{ Watt-Hours} / 4 \text{ Hours} = 1712.5 \text{ Watts}$ . We will want to use the MPPT Controller since this is a high wattage system and want to minimize loss.

What components do I need for an off-grid Solar System?

Below is a combination of multiple calculators that consider these variables and allow you to size the essential components for your off-grid solar system: The solar array. The battery bank. The solar charge controller. The power inverter. Simply follow the steps and instructions provided below.

What size Solar System do I Need?

Mini-split systems are most efficient. A 12,000 BTU unit requires about 1.5kW solar and 10kWh battery per day of operation. For central AC, you'll need a large system (10kW+ solar, 30kWh+ batteries) plus generator backup. How long do off-grid solar systems last?

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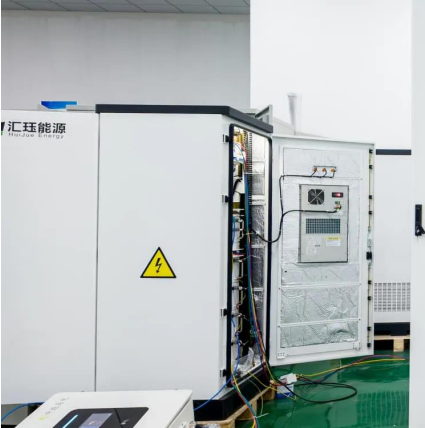
How many watts can a solar charge controller handle?

You can check the controller specification sheet to see the wattages they can handle. For example, a 30 Amp Controller can handle 400W on 12V, so you know you can have up to 400 Watts on there. \*If you want to size it by yourself, please reference Solar Charge Controller Types.



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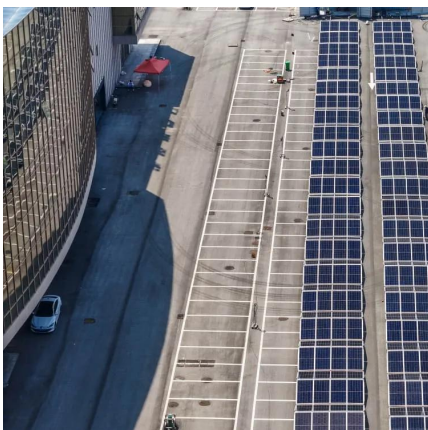


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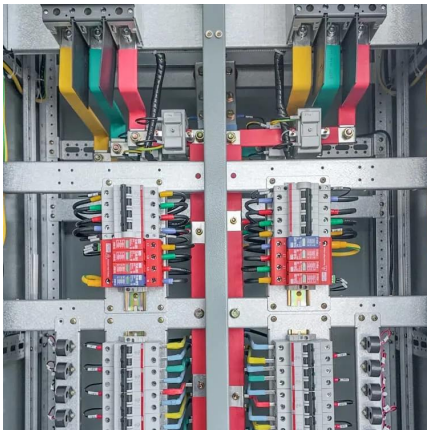
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