

# **How much electricity can a solar air conditioner generate**





## Overview

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How much power does a solar air conditioning system need?

Living in a state that ensures a power generation equal to 4 - 6 sun peak hours at maximum efficiency, you will require nearly a 2kW PV system. This system produces enough energy to power the A/C during the day and for storing power to run the A/C for the rest of the 8 hours. [What To Look For In A Solar-Air Conditioning Kit?](#)

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Can solar power run air conditioning?

Solar power can be a solution to enjoy air conditioning without expensive electricity bills. Photovoltaic (PV) modules are very powerful, and are capable of running A/C units, delivering enough power to cool rooms for several hours using solar power. In this article, we go over some interesting information about running A/Cs with solar power.

Can you run an A/C with solar power?

Running an A/C with solar power is entirely possible, practical, and advantageous since it will allow you to use air conditioning without increasing the power consumption for your electricity bill.

How much power does an air conditioner use?

Air conditioners typically list power requirements in two ways: BTU (British Thermal Units) and watts. The typical residential air conditioner uses between 500-4,000 watts depending on size, efficiency rating, and technology. Window units generally consume 500-1,500 watts, while central air conditioning systems require 2,000-4,000 watts or more.



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