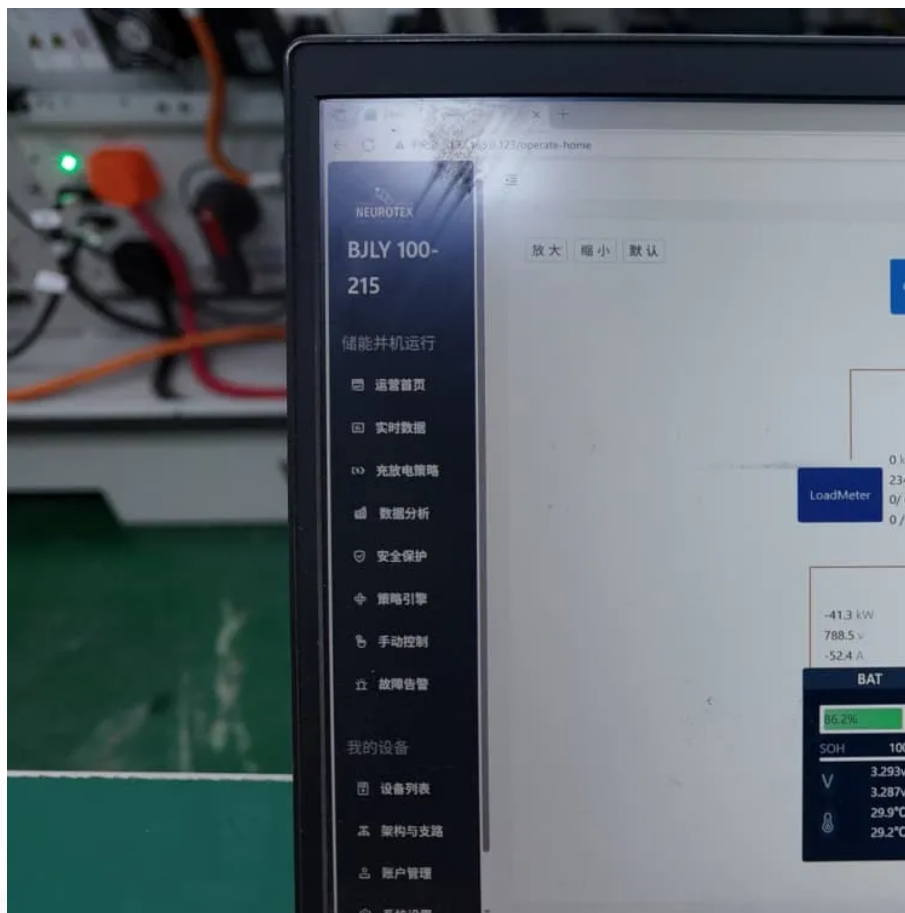


Photovoltaic 63w solar panel installation





Overview

How do you activate a solar system after installation?

After solar panel installation, the system needs to be activated. This involves interconnecting the solar panels, installing the inverter, and commissioning the system. During this step, note that as long as the solar panels are receiving sunlight, they have an open circuit voltage. Be careful when handling them.

What is a photovoltaic (PV) system?

At the heart of it all, a Photovoltaic (PV) system is an eco-friendly powerhouse that converts sunlight into usable electricity, allowing us to power our homes with renewable energy. This system is essentially your private power plant, harnessing the unlimited power of the sun and reducing our reliance on fossil fuels.

How does a solar panel installation process work?

The first step in the solar installation process is to assess your energy needs. This involves reviewing your past electricity bills to determine your average energy consumption. By understanding your energy usage, you can better estimate the size of the solar panel system required to meet your needs.

How to install solar panels?

The first step in solar panel installation is fixing the mounting structure to support the panels. The whole mounting structure must be tilted and have an angle between 15 to 20 degrees to have maximum sunlight exposure. For countries in the Northern Hemisphere, the best direction to face solar panels is south because it gets maximum sunlight.

How do you install a solar racking system?

Installers add landscaping pavers or concrete blocks to the bottom of the system's frame to hold the frame and top solar panels in place. You can adjust



the panels on this racking system between 5 and 30 degrees, depending on the type of panel and the manufacturer. You also have the option to install a dual-orientation (east and west) system.

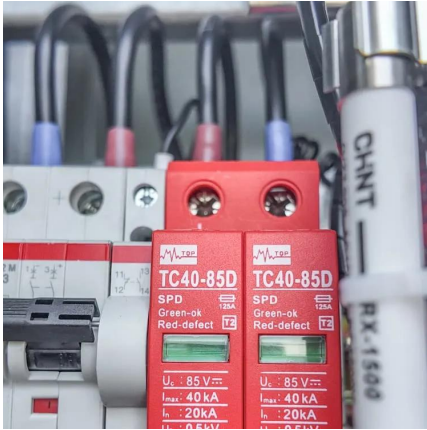
How many kW is a 6 kW solar array?

Multiply your solar array size by 1.2 (120%) to account for this: $6 \text{ kW} \times 1.2 = 7.2 \text{ kW}$ solar array Step 5: Full or Partial Offset?

Most grid-tie homeowners choose to offset 100% of their energy needs with solar. But it is also possible to start with a smaller system for partial offset, and then expand down the line as the budget allows for it.



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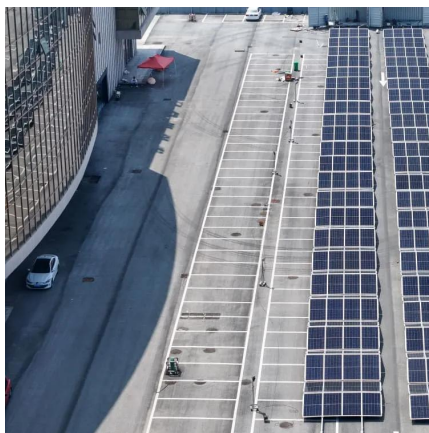
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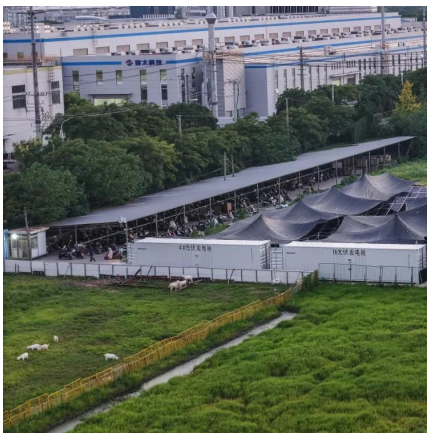
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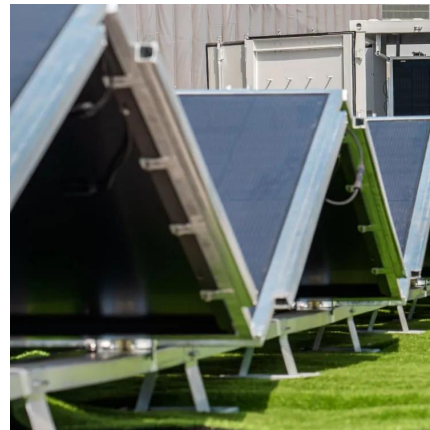
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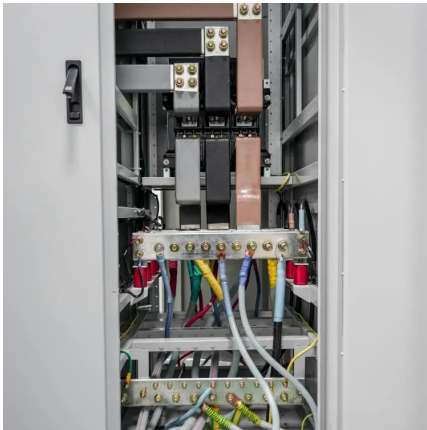
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