



WALMER ENERGY

# Off-grid on-site energy solar





## Overview

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How does an off-grid solar system work?

Off-grid solar systems function by drawing energy from solar panels and charging a solar battery using a charge controller. The charge controller safeguards the battery bank from overcharging while managing the electricity storage. This electricity undergoes a conversion process into AC current through an off-grid inverter to power your home.

What is the difference between off-grid and grid-tied solar systems?

Off-grid solar systems offer a completely self-sufficient solution, relying solely on the sun for energy. On the other hand, grid-tied systems maintain a connection to your local utility grid, providing a hybrid approach to power generation.

Why should you choose an off-grid Solar System?

Off-grid solar systems has multiple advantages that help you focus on your energy needs \* A reliable energy solution: These systems eliminate reliance on the utility grid, ensuring power even during outages. \* Perfect for remote locations: Perfect for locations where connecting to the grid is impractical or expensive.

Are solar off-grid systems modular?

A. Yes, most solar off-grid systems are modular, allowing you to expand with additional panels, batteries, or inverters as your energy needs grow. Switching to off-grid solar systems offers energy independence, sustainability, and long-term savings.



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