

# TYPES OF SOLAR SYSTEMS

## Grid-tied PV System

## Off-Grid PV System

## Hybrid PV System



The sun's energy is delivered to the solar modules.

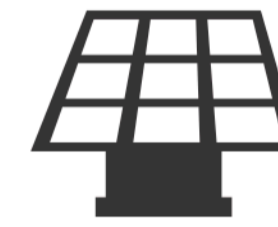
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Solar modules convert the sunlight into direct current (DC) electricity.

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An inverter converts the DC electricity into alternating current (AC) electricity.

A charge controller is used to protect the batteries from being overcharged.

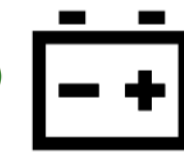
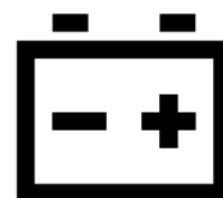
A charge controller is used to protect the batteries from being overcharged.



The AC electricity can now be used to power your home.

The battery bank, is charged during the day, and this stored energy is then used at night.

A battery-based inverter converts the DC electricity from the batteries, or straight from the charge controller, into AC electricity.



Batteries are charged and store energy for use during power outages.

Any excess electricity you generate is sent back to the grid and you receive a credit, which you can use when your electrical requirements exceed your production.

A battery-based inverter converts the DC electricity from the batteries, or straight from the charge controller into AC electricity.

The AC electricity can now be used to power your home.



During a grid power outage, your backed-up loads will be powered by the batteries.

The AC electricity can now be used to power your home.

Any excess electricity you generate is sent back to the grid and you receive a credit, which you can use when your electrical requirements exceed your production.

