



MODERNIZATION SOLAR

# Off-grid and grid-connected inverters





## Overview

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### What is an off-grid inverter?

Though fundamentally an off-grid inverter, this versatile model features grid input support—allowing it to draw power from the grid when solar and battery resources are insufficient. Commonly known as an off-grid hybrid inverter, it combines solar + battery + optional grid power, ensuring uninterrupted energy supply.

### What is an on-grid solar inverter?

1. On-Grid Solar Inverter An on-grid solar inverter connects directly to the utility grid. It synchronizes the solar system with grid electricity and exports excess energy. On-grid systems are cost-effective. They reduce electricity bills and enable net metering, where users get credited for the energy they supply to the grid.

### What does a grid connected inverter do?

Photovoltaic grid-connected inverters rely on the large power grid to operate. When the power grid is disconnected, the grid-connected inverter will be in an island protection state and stop working. Its main function is to convert solar energy into electrical energy and transmit it through the power grid.

### Are on-grid inverters cost-effective?

On-grid systems are cost-effective. They reduce electricity bills and enable net metering, where users get credited for the energy they supply to the grid. This setup is ideal for urban areas with stable grid access. On-grid inverters cannot function during power outages because they rely on the grid.



## Off-grid and grid-connected inverters



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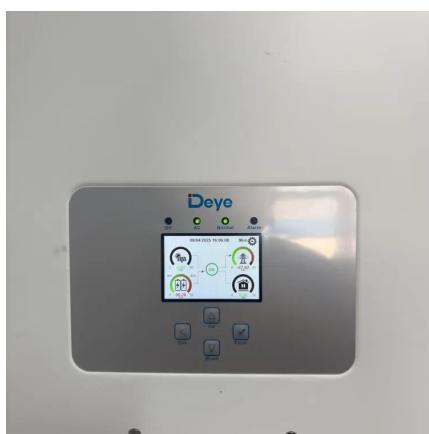
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