



MODERNIZATION SOLAR

Iraq Centralized Grid-connected solar Inverter





Overview

What is a grid-tied battery-less inverter?

For systems with grid-tied battery-less inverters, the PV is designed to supply the load when the national grid power is available but cannot perform in the event of a grid failure, and for safety purposes, it must be automatically shut down during power outages.

How does an on/off-grid inverter work?

The combination of on-grid and off-grid modes in the one system is achieved using an on/off-grid inverter, which operates in grid-connected mode when the grid power is available and completely in island-mode in the case of a blackout. It switches between the two options automatically, based on the status of the grid.

What is the difference between a national grid and a PV array?

The national grid is the main power source in the system, while, the PV arrays supply the load during the daytime only. To measure the cost of energy of the residential buildings, the Ministry of Electricity in Iraq calculates the cost by multiplying the energy consumption by a specific value in Iraqi Dinar.

Can solar power be sold back to the grid?

It is important to mention that during power outages, the solar system operates in an off-grid mode in which the PV can supply the load and charge the batteries, but it is not possible to sell excess power back to the grid. Prevention of sell back to the grid during power outages is mainly for safety purpose to protect linesmen working on the grid.



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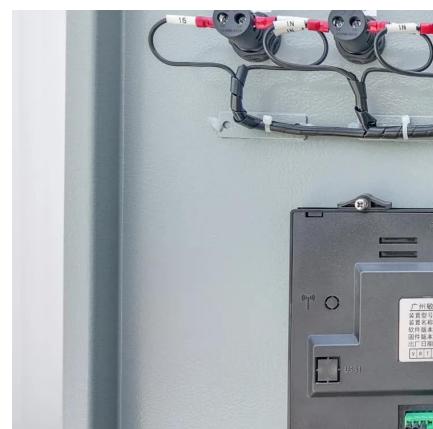


Our Products

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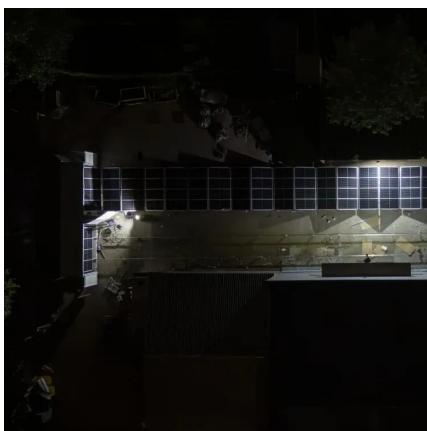
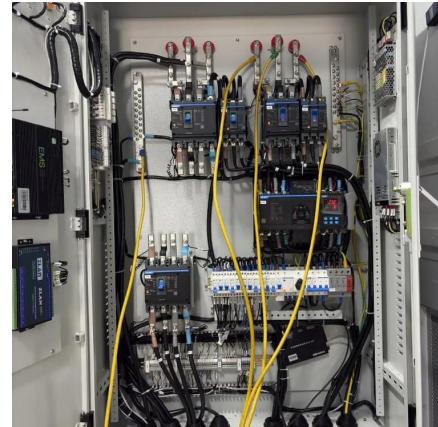


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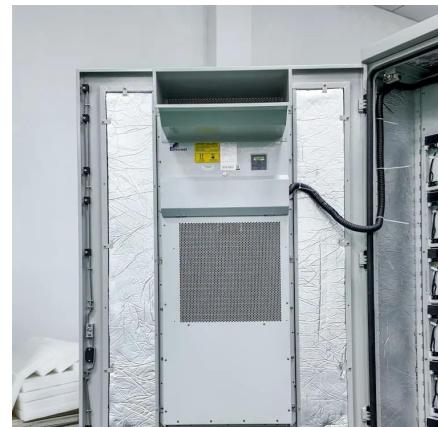
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[Design and Performance Analysis of Grid](#)

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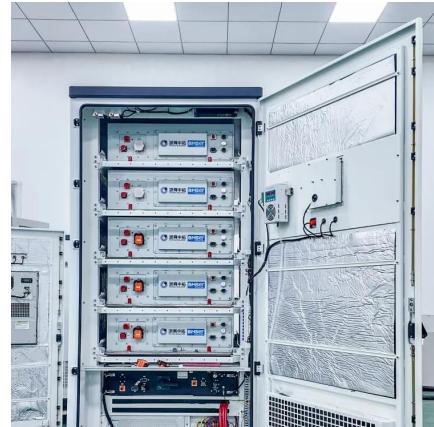
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