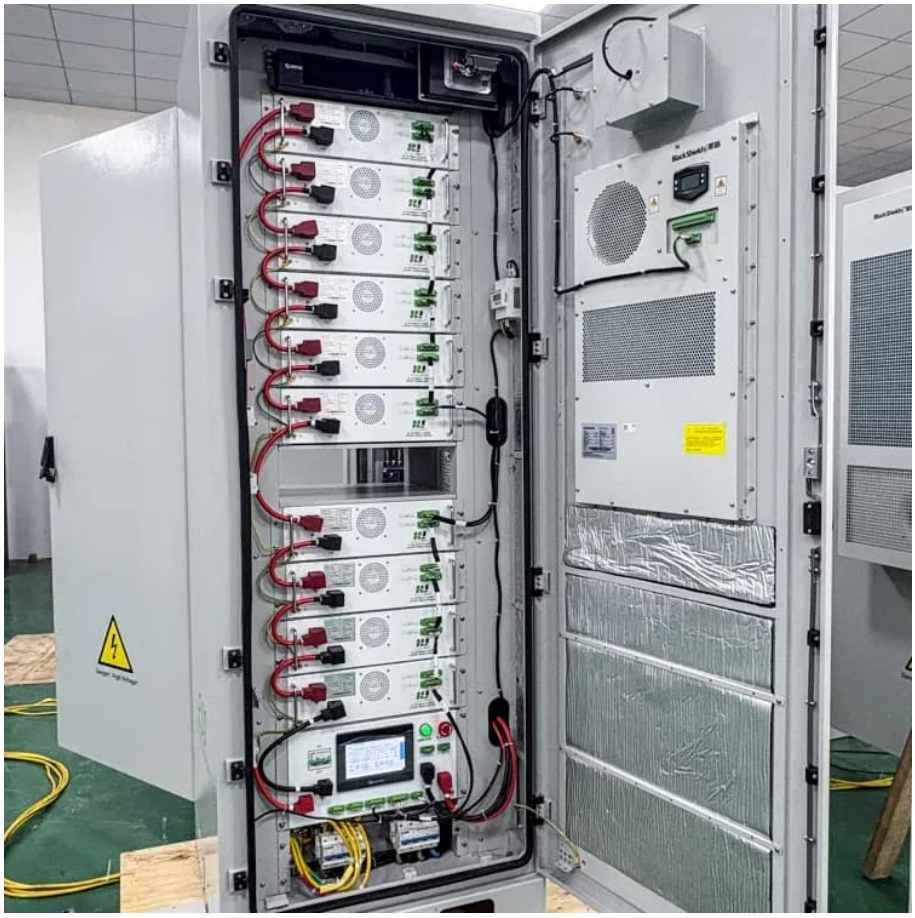
EIEI POWER

Grid-connected inverter used alone



Overview

What is grid connected inverter?

Grid connected inverter or grid tie inverter is designed specifically for grid connected application that does not require battery backup system. Grid connected inverter or grid tie inverter converts DC power produced by PV array to AC power to supply to electrical appliances and sell excess power back to utility grid.

Can I use a same inverter for both grid connected and stand alone?

Is it possible to use a same inverter for both grid connected and stand alone operation of solar PV systems?

In both Grid connected and stand alone Solar PV system an inverter is used. Please clarify if we can use a same inverter for both grid connected and stand alone operation of solar PV systems?

Yes, this is posible.

Can a grid connected inverter synchronize with a stand-alone operation?

yes you can, however you should modify the control system of the inverter in order to be able to switch between grid connected operations and stand-alone operations. No you can not. For a grid connected inverter, the modulating signal is obtained from the grid only for successful synchronization.

What is the difference between stand-alone and grid-connected inverter?

Dear Maharaja. Stand-alone and grid-connected can be two operation modes of the same inverter system. The stand-alone operation can be considered as the islanding mode of a grid connected system. However, thecontrol aims of both modes are really different and hence they are normally studied in an independent way.

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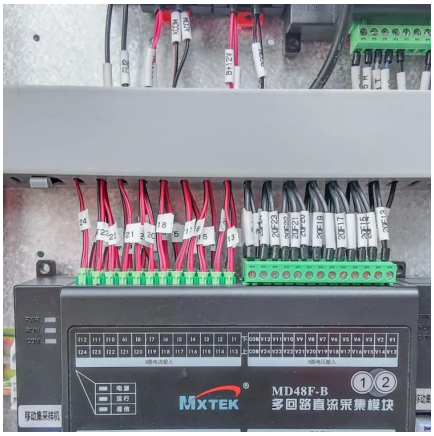

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Inverter, Solar Inverter

Stand-alone Inverter, Grid Tie Inverter or Grid Connected Inverter and Hybrid Inverter - converts DC output of solar panels or wind turbine into a clean AC current for AC appliances.

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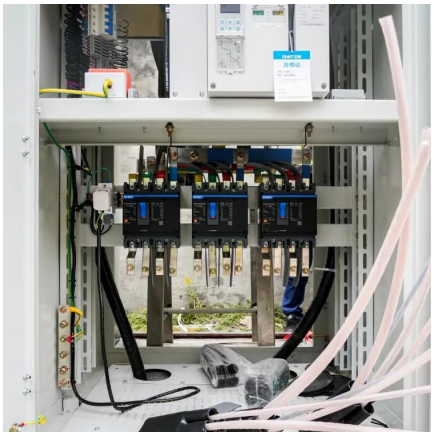

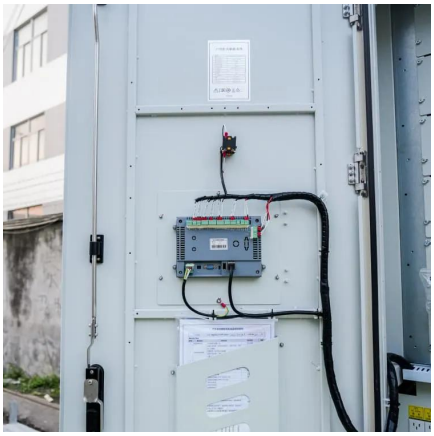

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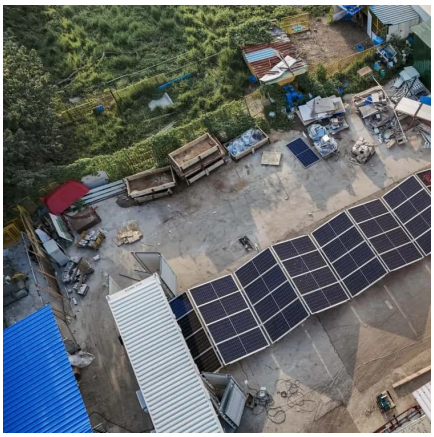

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