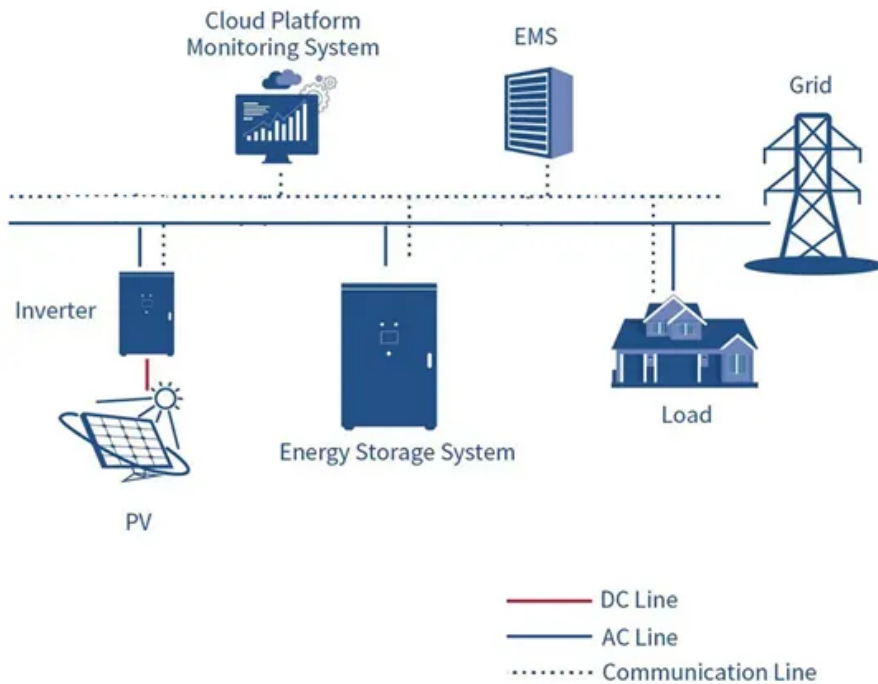


Solar Energy South Africa

20KW Photovoltaic Grid-connected Inverter User Manual



Overview

What is a PV inverter manual?

The inverter is grid-connected, transformer-less, robust and of high conversion efficiency. This manual contains information about the inverter, which will provide guidelines on connecting the inverter into the PV power system and how to operate the inverter. The manual cannot include all information about the PV system.

Can a PV inverter connect to a power grid?

If the inverter connects to the power grid directly, ensure that the PV arrays are not grounded. If the DC voltage is a non-zero value between the positive terminal of PV arrays and the ground, the PV arrays are subject to insulation faults. Rectify the fault before connecting cables.

What is a photovoltaic inverter?

The inverter is a multi-string inverter designed to transform a direct electric current (DC) coming from a photovoltaic generator (PV) into an alternating electric current (AC) suitable for being fed into the national grid. The inverter can only be used with photovoltaic modules for on-grid PV power generation.

What is the main circuit of a PV inverter?

Fig. 2-5 shows the main circuit of the inverter. The MPPT is utilized for DC input to ensure the maximum power from the PV array at different PV input conditions. The inversion circuit converts the DC power into AC power and feeds the AC power to the utility grid through the AC terminal.

How do I connect an inverter to the grid?

Connect the inverter to the grid only after getting an approval from the local electric power company. Before connecting the inverter to the grid, ensure the grid voltage and frequency comply with requirements, for which, refer to "10.1 Technical Data". Otherwise, contact the electric power company for help.

How does a PV inverter work?

Display the PV power generation power, feed-in power, etc. The line with an arrow indicates energy flow between connected devices, and the arrow pointing indicates energy flow direction. After being energized, inverter tracks the PV arrays' maximum power point (MPP) and converts the DC power into AC power. This is the normal operation mode.

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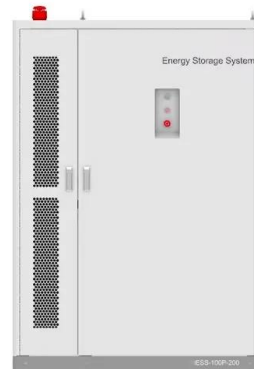


SG320HX / SG350HXPV Grid-Connected InverterUser ...

This manual is valid for the following model of low-power grid-connected PV string inverters: o SG320HX o SG350HX It will be referred to as "inverter" hereinafter unless otherwise specified.
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8 System Decommissioning User Manual step 1 Refer to "5 Electrical Connection"for the inverter disconnection of all cables in reverse steps. step 2 Dismantle the inverter referring to "4 ...

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