

Huawei grid-connected inverter PLC



Efficient Higher Revenue

- Max. Efficiency 97.5%
- Max. PV Input Voltage 600V
- 150% Peak Output Power
- 2 MPP Trackers, 150% DC Input Oversizing
- Max. PV Input Current 16A, Compatible with High Power Modules



Intelligent Simple O&M

- IP66 Protection Degree: support outdoor installation
- Smart I-V Curve Diagnosis Function: locate PV string faults accurately and automatically detect faults
- DC & AC Type II SPD: prevent lightning damage
- Battery Reverse Connection Protection



Flexible Abundant Configuration

- Plug & Play, EPS Switching Under 10ms
- Compatible with Lead-acid and Lithium Batteries
- Max. 6 units Inverters Parallel
- AFCI Function (Optional): when an arc-fault is detected the inverter immediately stops operation



Overview

What is a Huawei Sun series Smart string grid connect inverter?

HUAWEI SUN Series Smart String Grid Connect Inverters are of transformerless design for the management of hybrid solar powered PV/AC mains power supply installations.

How do I change the grid connection status of the inverter?

The grid connection status of the inverter is switched by using the Backup Box. The critical load power does not exceed the max off-grid output power of the Inverter. You can add inverters and batteries to increase capacity. A maximum of three inverters can be cascaded.

How many inverters can be connected to a smart dongle?

When the grid charging function is enabled, the surplus power generated by one inverter can be used to charge the other inverter. Each L1/LC0/M1 can connect to a maximum of two ESSs, and each MB0 can connect to a maximum of four ESSs. In the Smart Dongle networking scenario, a maximum of three inverters and six ESSs can be connected.



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[HUAWEI Smart Solar Inverters SUN2000 Series](#)

HUAWEI SUN Series Smart String Grid Connect Inverters are of transformerless design for the management of hybrid solar powered PV/AC mains power supply installations.

[Product Information](#)

Huawei system design procedure

Overview Project design Grid-connected system definition Power optimizers Huawei system design procedure Using the Huawei optimizers should comply with very specific rules, which ...

[Product Information](#)



[Commissioning guide for SUN2000 8-28KTL](#)

This document describe how to commissioning the SUN2000 8-28KTL inverter connected to a Smartlogger1000 through RS485 communication using LCD screen of the inverter and ...

[Product Information](#)

[Huawei photovoltaic grid-connected inverter efficiency](#)

Huawei Digital Power is dedicated to enhancing the safety and stability of renewable integration by combining digital and power electronics technologies, leveraging technical experience, and ...



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Huawei Photovoltaic Grid-Connected Inverter Parameters: The ...

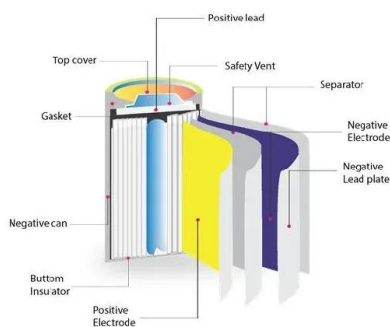
As global energy prices fluctuate, Huawei's grid-tied inverters have become the go-to solution for commercial installations, particularly after their Q1 2025 firmware update addressing dynamic ...

[Product Information](#)

Connecting to a PLC (MBUS)

For details about this operation, see Managing Devices or Connecting Devices. The Huawei PLC (MBUS) supports auto-negotiation of baud rate 9600 bps/115200 bps. If the PLC (MBUS) ...

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[Networking with Third-party Inverters](#)

When a third-party inverter is connected to meter 2 and the quick deployment is complete, add meter 2 through the Smart Dongle by referring to Adding a Power Meter Through Smart ...

[Product Information](#)



[Grid-tied and Off-grid ESS Networking](#)

A maximum of three inverters can be cascaded in the grid-tied and off-grid ESS. The batteries, power meter, Smart Dongle, and Backup Box need to be connected to the same inverter.

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Leading Solar Solutions for a Greener Future , HUAWEI Smart ...

It provides smart PV solutions for residential, commercial, industrial, utility scale, energy storage systems, and microgrids. It builds a product ecosystem centered on solar inverters, charge ...

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[Commissioning guide for SUN2000 inverters with PLC...](#)

After you set the communication with inverters upgrade all the inverters if the service support recommend with the firmware received from service support like below:

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[Smart Micro-grid Solutions , HUAWEI Smart PV Global](#)

Microgrids provide independent and resilient power supply when there is no power grid or the power grid goes out.Green & Resilient Power Supply with ...

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