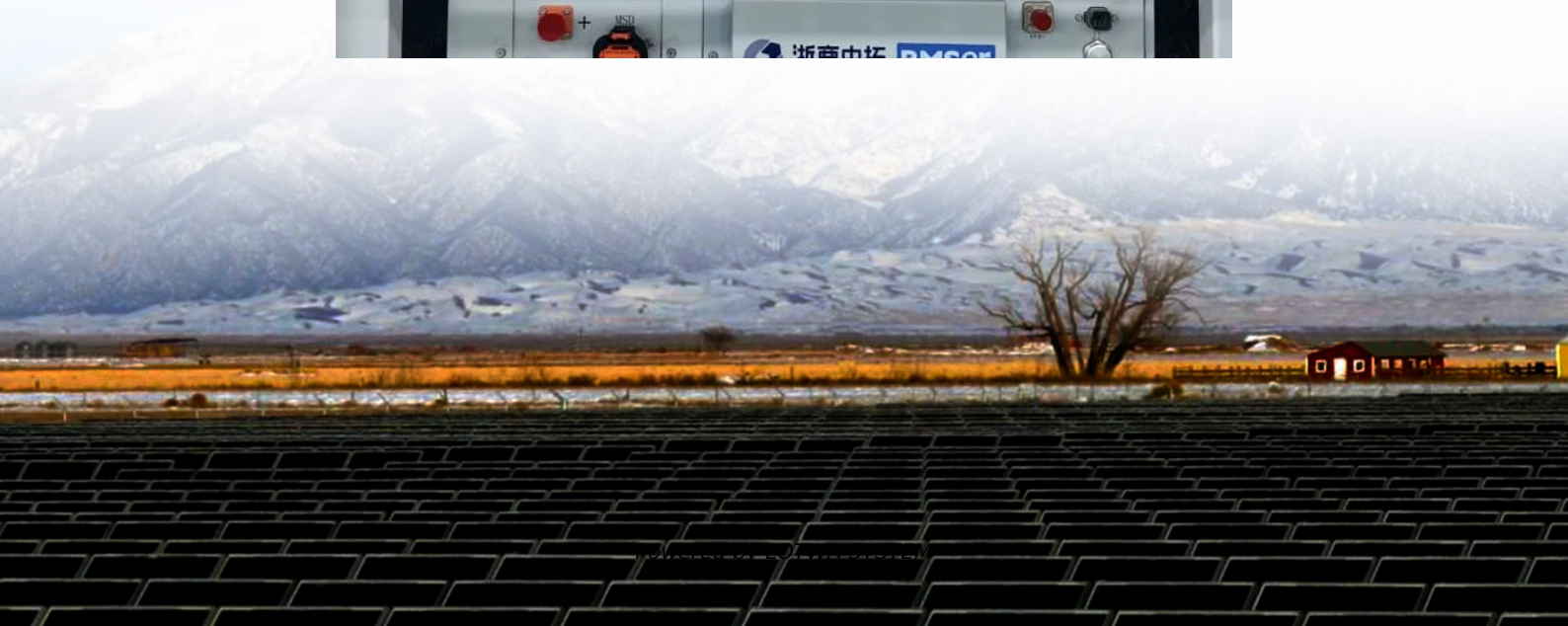


Solar inverter carrier communication





Overview

What communication methods do micro inverters use?

This ensures that the inverter's operation can be displayed on the monitoring and maintenance platform. The mainstream micro inverter manufacturers in the global market primarily transmit and control data through communication methods such as WiFi, PLC, RS485, Sub-1G, and Zigbee. Below is an overview of each brand's communication methods:

How does an inverter communicate with a monitoring platform?

The communication between the inverter and the monitoring platform relies on a communication protocol in terms of software and mainly uses a monitoring stick module as a medium or bridge for data transmission and reception in terms of hardware. This ensures that the inverter's operation can be displayed on the monitoring and maintenance platform.

How does a micro inverter work?

The micro inverter is connected to the router through a built-in WiFi module, transmitting the collected data to the server. It can also directly connect to a mobile app through WiFi for data exchange. RS-485 is an asynchronous serial communication protocol suitable for multi-node communication.

Which power line communication options are implemented in different solar installations?

Figure 1 shows typical power line communication options implemented in different solar installations. These installations can be divided into communication on DC lines (red) and communication on AC lines (blue).



Solar inverter carrier communication

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