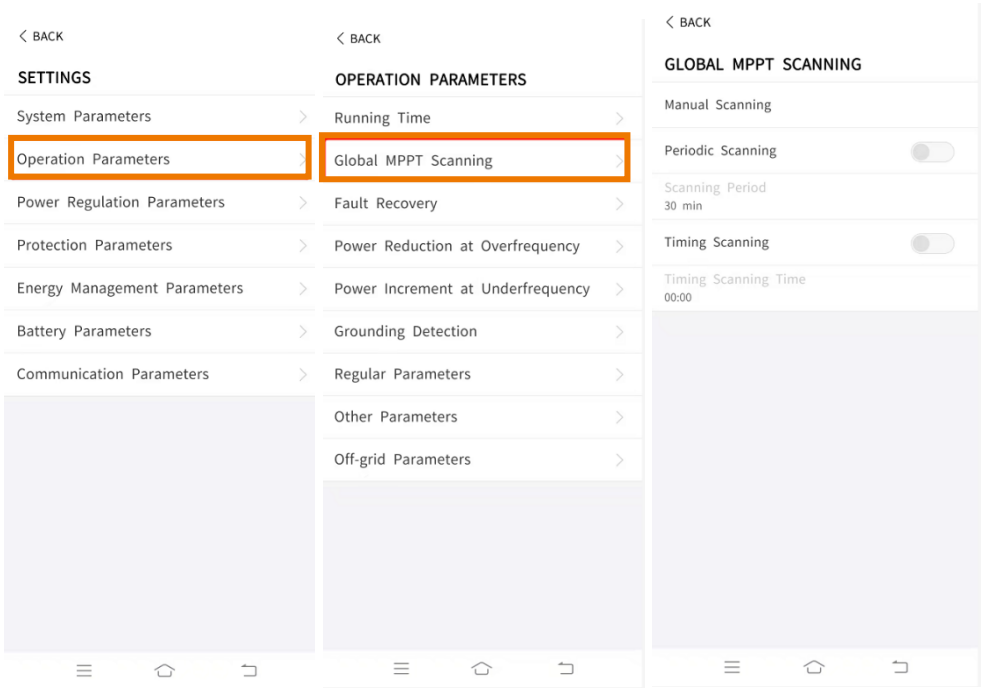
1-phase Hybrids-FAQ

Instructions for MPPT global scanning

Applicable to: SHxxRS series

Due to shadows or occlusions during the day, as well as string orientation or component mismatch, a multi-peak power curve could be present in the customer plant at certain moments of the day. To help solve this issue, the MPPT global scanning feature avoids power generation loss by finding the global maximum. There are two scanning modes for global MPPT scanning. Manual scanning and automatic scanning. The Manual scan mode is divided into periodic scanning and timing scanning. The global MPPT scanning will only be triggered when the inverter is running normally and will not be triggered when the inverter is shut down or fails. When manual scanning is not enabled, MPPT Scan mode is automatic.

Settings for Global MPPT scanning in Local Mode:
More-Setting -> Operation Parameters -> Global MPPT Scanning.



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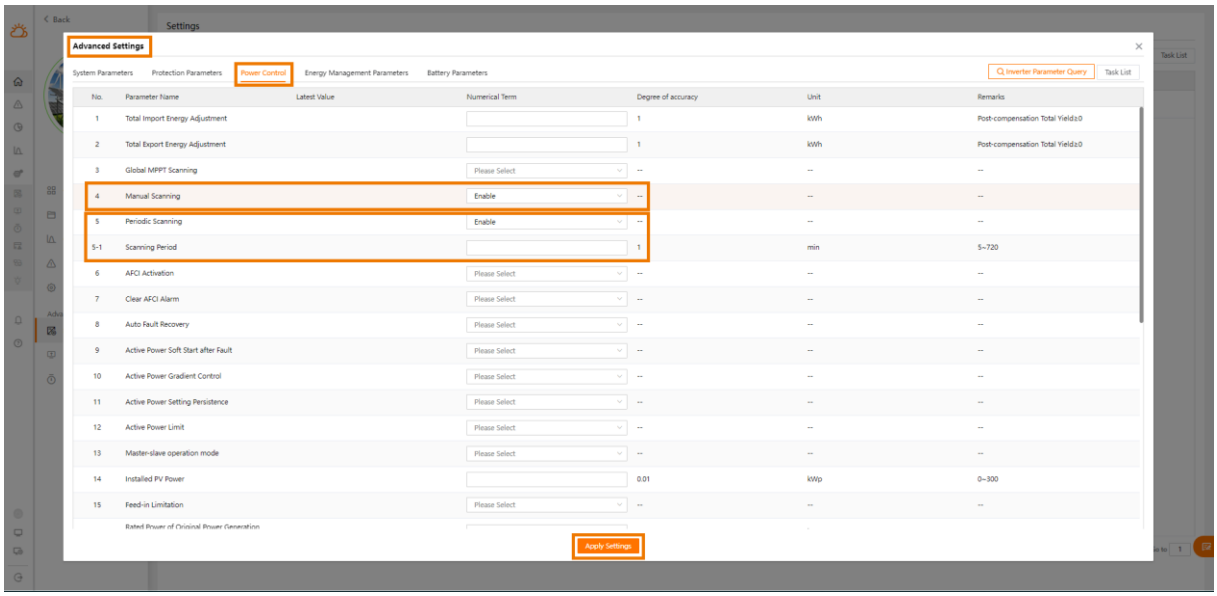
Settings for Global MPPT scanning in Online Mode (iSolarCloud):



1. Manual scanning:

   This instruction can only be issued successfully when the inverter is in normal operation mode.

   After the instruction is issued, if the inverter is not in the stage of over-voltage and over-frequency, fault recovery, derating or slow start of over-frequency, scanning will be performed immediately.

   If the inverter is carrying out scanning, the instruction issued this time will not be executed again (it will not scan twice in succession).

   If the inverter is in failure recovery or derating, scanning is performed after the failure recovery or derating is completed.

2. Periodic scanning:

   When the periodic scanning instruction is issued, it is necessary to set the scanning period (minute).

   After the instruction is issued, the inverter start will start scanning and time counting until the time counting comes to an end. If the inverter is in normal operation mode, scanning will be executed, otherwise it will not be executed.

For further information, please download the user manual here.

This manual is intended for professional technicians who are responsible for installation, operation, maintenance and troubleshooting of inverters, and users who need to check inverter parameters. The inverter must only be installed by professional technicians.

The professional technician is required to meet the following requirements:

- Know electronic, electrical wiring and mechanical expertise, and be familiar with electrical and mechanical schematics.
- Have received professional training related to the installation, commissioning and troubleshooting of electrical equipment.
- Be able to quickly respond to hazards or emergencies that occur during installation, commissioning and troubleshooting.
- Be familiar with local standards and relevant safety regulations of electrical systems.
- Read this manual thoroughly and understand the safety instructions related to operations.

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