1-phase Hybrids-FAQ

Fault code and troubleshooting steps of SHxxRS

Applicable to: SHxxRS series

Fan blockage alarm (Code 513)

Fault name	Fan blockage alarm (fault code: 513)
Fault type	Alarm
Fault condition	The fan stops or the fan speed measuring circuit is abnormal.
Steps and methods of troubleshooting	1. Restart the inverter by turning the power off and on again. 2. Check, if the fan wiring is loose or damaged and whether the fan blades are blocked. 3. Check whether the fan runs normally after power-on; If the fault remains, replace the fan. 4. If there is no abnormality after the above-mentioned inspection, it is recommended to replace the inverter.

Abnormal meter communication connection (Code 514)

Fault name	Abnormal meter communication connection (fault code: 514)
Fault type	Alarm
Fault condition	Abnormal connection of meter communication line.
Steps and methods of troubleshooting	1. Check, if there is any abnormality in the communication cable and cable connection terminal and correct it if so. 2. Disconnect wires from smart meter and check if voltage comes from the inverter as well as there is voltage on the communication terminals of the smart meter. a) No voltage from inverter -> replace inverter. b) No voltage from smart meter -> replace smart meter. c) Voltage on both sides -> replace inverter. 2. Reconnect the communication cable of meter. 3. Short-circuit 120ohm resistor on meter-side if it is suitable for long distance situation. 4. If it still cannot be restored, replace the communication cable of the meter and reconnect it.

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Contactor low voltage fault (Code 518)

Fault name	Contactor low voltage fault (fault code: 518)
Fault type	Alarm
Fault condition	Usually accompanied by failure 010 power grid power down fault and low voltage on the power grid side.
Steps and methods of troubleshooting	1. Check, if the cable connection on the power grid side is normal. 2. Fault 518 reported together with the power down fault of power grid does not need to be handled.

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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