3-phase Hybrids-FAQ

Differences and Compatibility of SHxxRT and SBR versions

Applicable to: SBR HV Batteries

Scarcity of resources and securing quantities are the keywords of the year 2021. Both within the PV industry and in almost all other markets. The absence of many supplier products led to disruptive movements in the market in many respects and resulted in a severe supply shortage on the manufacturer side.

Sungrow also had to take corresponding measures to maintain the supply capability of its two most popular products, the 3-phase hybrid inverter SHRT and the home storage battery SBR.

In both cases, this is a changeover to new product versions or an addition to the existing product portfolio.

SHRT V11 and V112 - What's new?

The SHRT V112 version is a new hardware version of the 3-phase Sungrow hybrid inverter with small differences compared to the well-known SHRT V11 version that has been shipped so far.

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How to distinguish between V11 and V112?

There is a sticker with a barcode on each inverter box (on the short side). Below this barcode is a plain text label that shows the product designation, serial number and product version.

SHRT V11

SHRT V112

What must be considered?

The switch from V11 to V112 brings with it two major restrictions that must be taken into account when installing the devices.

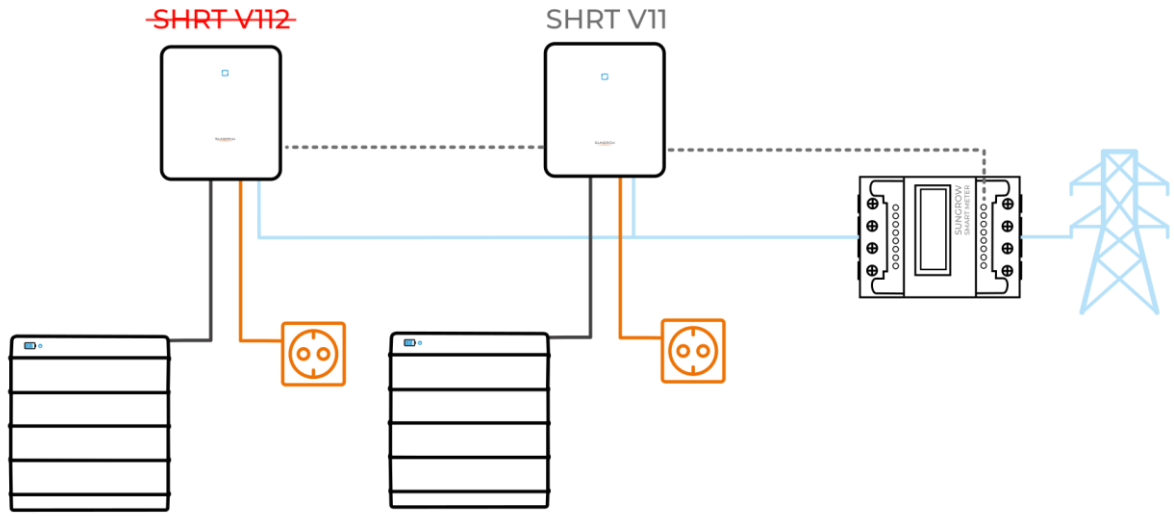
1. Interaction with the new EV Charger

In combination with the presented Sungrow EV Charger (manufacturer type: A-CH-00015), only version V11 will be fully compatible from the market launch of the wallbox.

V112 does not support the Sungrow EV Charger. If a wallbox is installed in connection with a V112 battery, it can only charge with 11kW without intelligent features.

2. Series connection of V11 and V112 hybrid inverters

It is not possible to set up a mixed parallel connection (via RS485 connection) from V11 and V112 devices. A combination consisting of e.g. a V11 and a V112 is not recommended. A uniform parallel connection of up to five V11 or up to five V112 can of course be implemented.



Sungrow SBR - Two different versions

In order to sustainably increase production capacity and meet market demand, Sungrow has added another battery cell supplier.

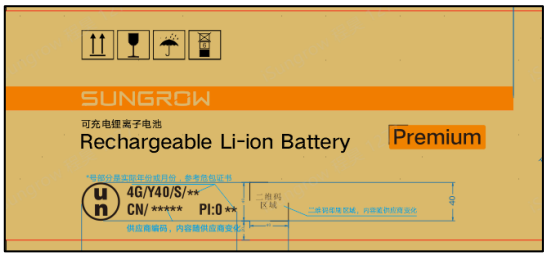
SBR Version 2 is a new hardware version of the well-known Sungrow SBR battery module. It contains battery cells from a second, recently added supplier and therefore differs from the previously delivered version 1 only at the cell level. Both modules will continue to be specially manufactured by Sungrow.

The currently available SBR Accessory Box (consisting of a cover, base and separator) is fully compatible with both battery module versions.

How to differentiate between the new SBR battery module version 2 and the old version 1?

The label on the product packaging has a different color (ORANGE for Version 1, BLUE for Version 2)

Battery Module Version 1



Battery Module 2

What else must be considered?

The two versions from the different suppliers must not be mixed within a battery unit. Only homogeneous towers consisting of the same module type (either version 1 or version 2) are possible.

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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