

### 3-phase Hybrids-FAQ

## SOC calibration scheme for SBR batteries

Applicable to: SBR HV Batteries

There are two methods of SOC calibration schemes for SBR HV batteries, which are **Dynamic calibration** and **Static calibration**:

**Dynamic calibration:** Dynamic SOC pre-calibration will start when the battery is charged to more than 95%, and dynamic SOC-Open circuit voltage (OCV) calibration will start when the battery is fully charged to 100%.

**Static calibration:** Static SOC-OCV calibration will start if SOC is lower than 30% or greater than 95% and there is no charge and discharge current within 2 hours.

Note: After first commissioning, the inverter will perform maintenance mode to calibrate the SOC. This can be seen in the device information in Running state. This might take some time until it comes to normal operation.

The screenshot shows the device information page for a SUNGROW SH10RT inverter. The 'Running State' is currently set to 'On-grid Operation'. An orange arrow points to a dropdown menu next to it, which is labeled 'Maintenance Mode'. The page also displays various energy and load statistics.

SH10RT_003_001									
Plant Name: SUNGROW SH10RT Device Model: SH10RT									
<b>General Information</b> Active Fault Fault History Chart									
Daily Feed-in Energy	0.2 kWh	↗	Total Feed-in Energy	17.303 MWh	↗	Daily Purchased Energy	0 kWh	↗	
Purchased Power	0 W	↗	Total Export Active Power	5 W	↗	Daily Feed-in Energy (PV)	0.1 kWh	↗	
<b>Load Information</b>									
Daily Load Energy Consumption	3.7 kWh	↗	Total Load Energy Consumption from PV	2.946 MWh	↗	Total Load Active Power	475 W	↗	
Daily Load Energy Consumption from PV	1.2 kWh	↗	Daily Self-consumption Rate	24 %	↗	Total Load Energy Consumption		2.286 MWh	
<b>Other Information</b>									
Running State	On-grid Operation <span>⌵</span> <b>Maintenance Mode</b>								
<b>Device Information</b>									
Current Status	Normal	Device Name	SH10RT_003_001	Device Model	SH10RT	Commissioning Date	2021-04-01		
Manufacturer	SUNGROW	S/N	Y2002260016						

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.