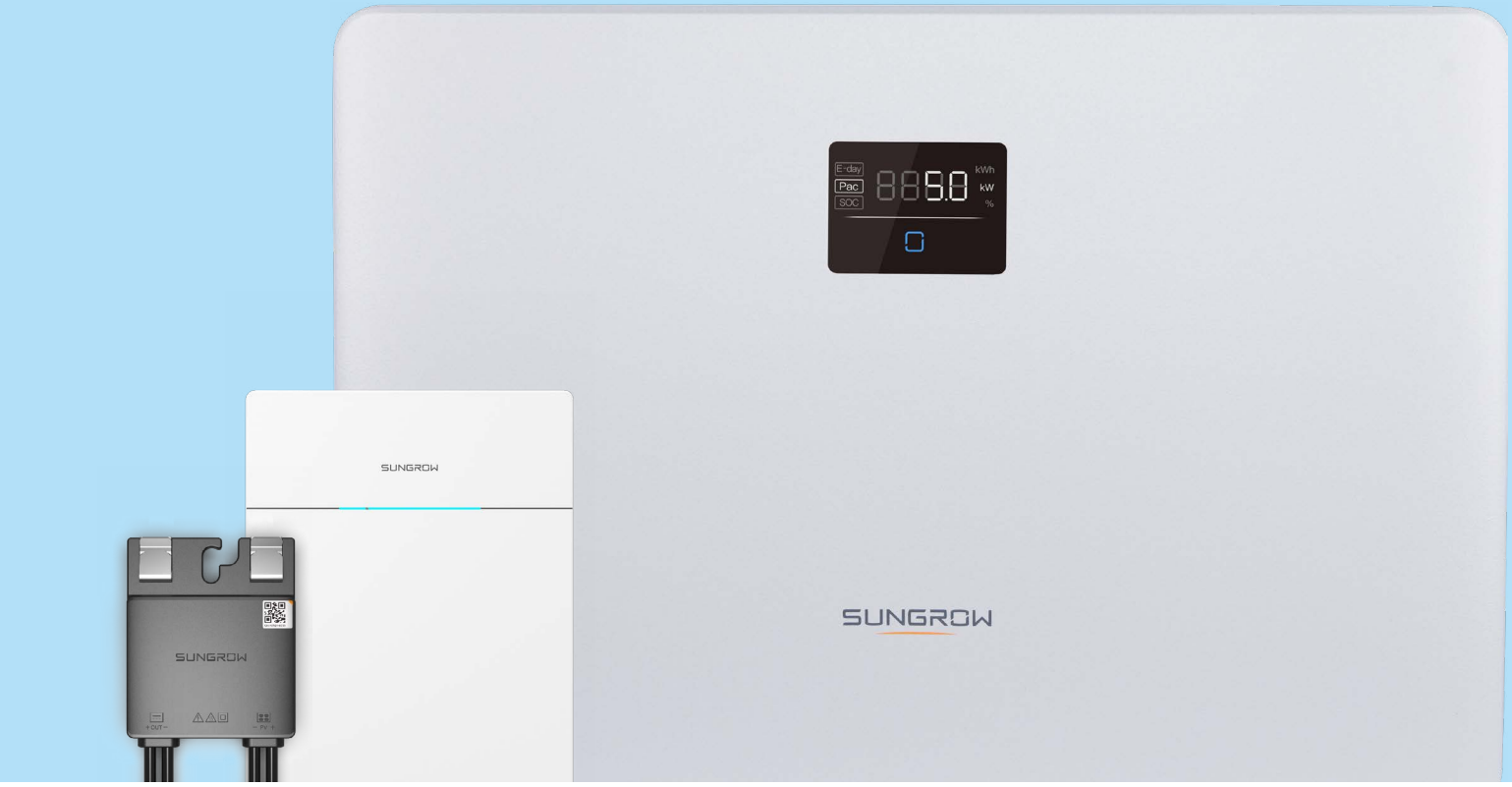
SUNGROW
Clean power for all

THE SHRS V13

UNLOCKING NEW COMPATIBILITIES



OPTIMIZER COMPATILITY

Compatible with SP600S Optimizer to control each PV module and for additional safety and efficiency in case of partial shadows.

BATTERY COMPATIBILITY

Compatible with the new SBS050, 5 kWh wall mounted battery with only 182 mm depth on the wall and expandable to 20 kWh capacity.

HIGH EFFICIENCY

Integrated backup function with 10 ms seamless switching and all new Diesel Generator integration with ATS and 2 CT meter.

NEW POSIBILITIES

1 PV MODULES

Compatible with PV modules **up to 16 A** and short circuit current 20 A with and without optimizer, for compatibility with most PV modules on the market.

2 COMPATIBILITY

The SHRS V13 is compatible with both the **SP600S optimizer** - which has rapid shutdown within 20s and an AFCI function - and the **SBS050 battery** - which has an usable capacity of 5 kWh and 30 A max charging/discharging current.

3 BATTERY CONNECTION

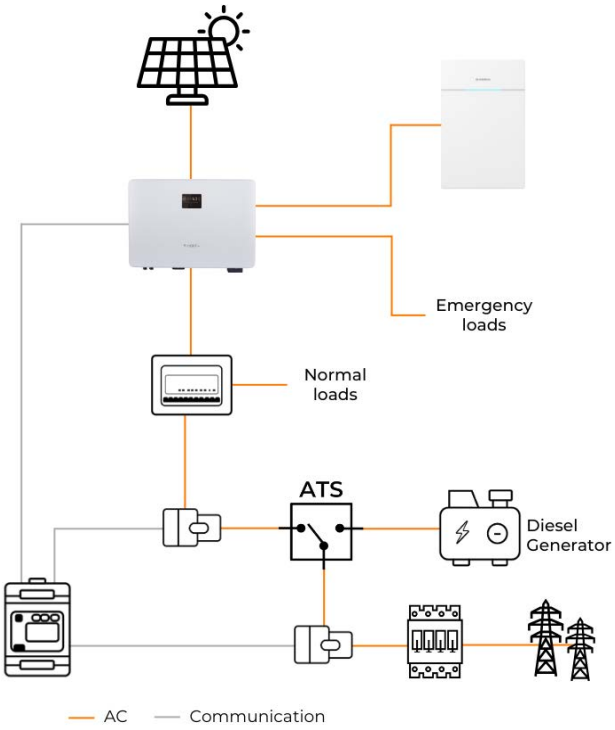
It's possible to connect up to four SBS050 battery units to a single SHRS Inverter in daisy chain without the need for an external combiner box.

4 PARALLEL CONNECTION

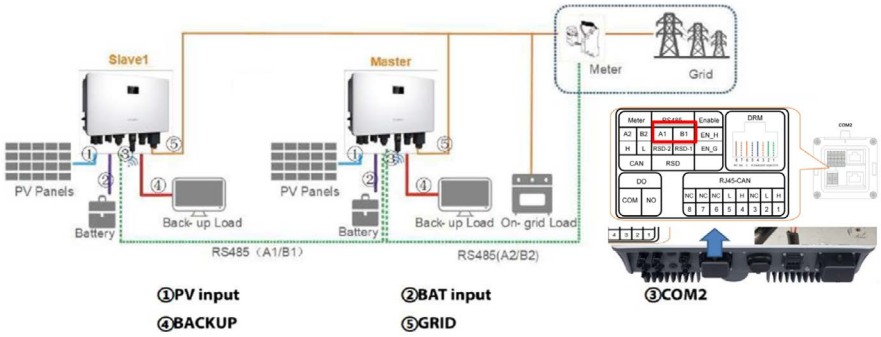
New parallel mode where two SHRS can be installed together in parallel when zero-feed-in function is enabled.

ATS CONNECTION

Connect the **ATS** to the **SHRS Inverter, diesel generator and grid**. Install the 2 CT meter to monitor the grid and Inverter side. Setup the **Microgrid Operation Mode on iSolarCloud** and other relevant parameters. When the grid is available, the SHRS will operate normally in self-consumption plus backup mode when the grid is lost. When the Battery is discharged, the SHRS will send a Digital Output signal to turn on the diesel generator which will be only used to recharge the battery when there's not enough PV is available. For more information, **click here** to check out our full guide.



PARALLEL MODE



Up to two SHRS of the same size can be **combined in parallel mode** with one host and one client. The S100 meter is connected to the host and the **zero-feed-in limitation** must be activated. Backup loads should be separated one per inverter. More information in our **full guide**.

ASK OUR SPECIALIST

Andrea Polini
Senior Product Manager Hybrid / Battery for Distribution

1 **How many panels should be equipped with Optimizers?**
In case you would like to use an Optimizer, at least half or more of the modules in a string need to have one connected.

2 **What is the maximum recommended PV power possible to connect to the SHRS V13?**
Without the use of an Optimizers, we recommend a PV Design tool like iSolarDesign. When using an Optimizer, up to 25 PV modules per string are supported.

3 **Is the SBS050 Battery capable of full power backup operation?**
One SBS050 is capable of charging and discharging at maximum 30A when connected with an SHRS. Multiple batteries in daisy chain only increase the capacity and not the power output. We recommend the backup loads to be lower or equal than 3 kW resistive load and installing the whole house behind the backup of the inverter is not recommended.

4 **Can I setup the SHRS to work with a diesel generator to only recharge the battery when the grid is failing?**
Yes, the SHRS can be setup according to our full guide and can use the Digital Output port to send a command to turn on or off the diesel generator based on the battery SOC when there is a grid outage.

Curious to learn more?

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