

Product Introduction SHRS Single phase hybrid

SUNGROW
Clean power for all

New Single-phase Hybrid Family

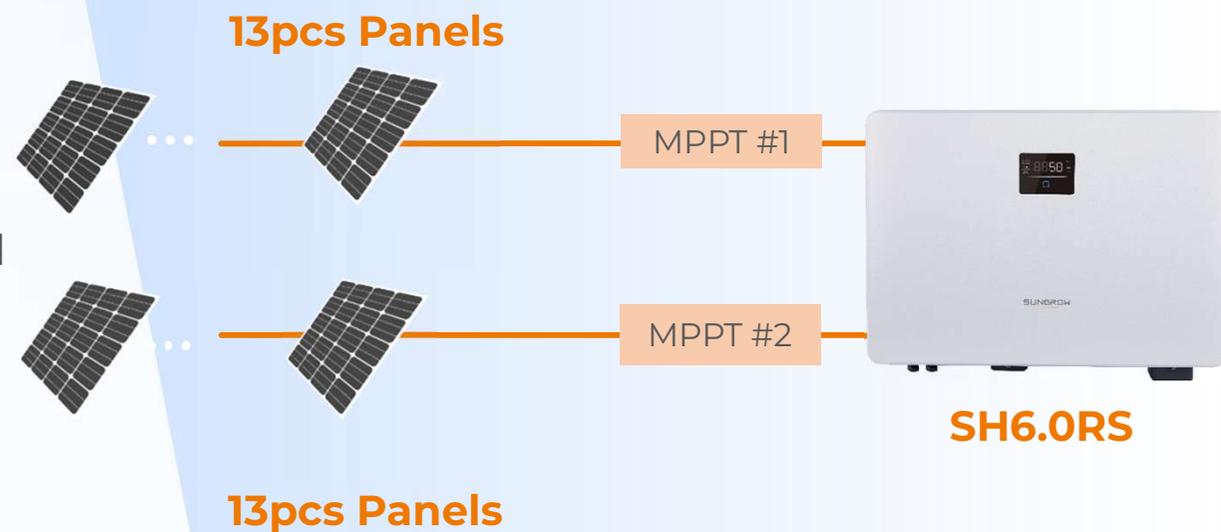


**SH3.0RS/SH3.6RS/
SH4.0RS/SH5.0RS/SH6.0RS
V13**



More DC Input

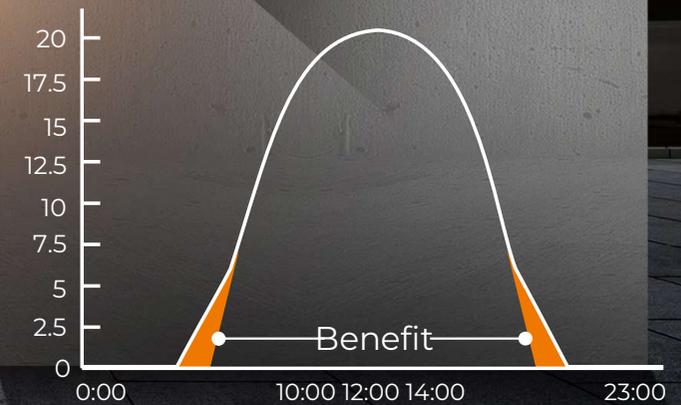
- Support PV input up to **600V**
- High input current per string 16A, and 40A short circuit current per MPPT, suitable for high power PV module
- High DC/AC Ratio, more than 2.0 depending on PV module spec



Longer Serving Time

- Low startup voltage **50V already 2 modules**
- Wide MPP voltage range **40~560V**
- Continuously producing PV power even under weak sunshine early morning or late afternoon

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Protective Casing

C5

Double layer **electrostatic spraying**
Adapt to harsh environment

IP65

Die cast aluminum alloy casing
high thermal conductivity, high strength



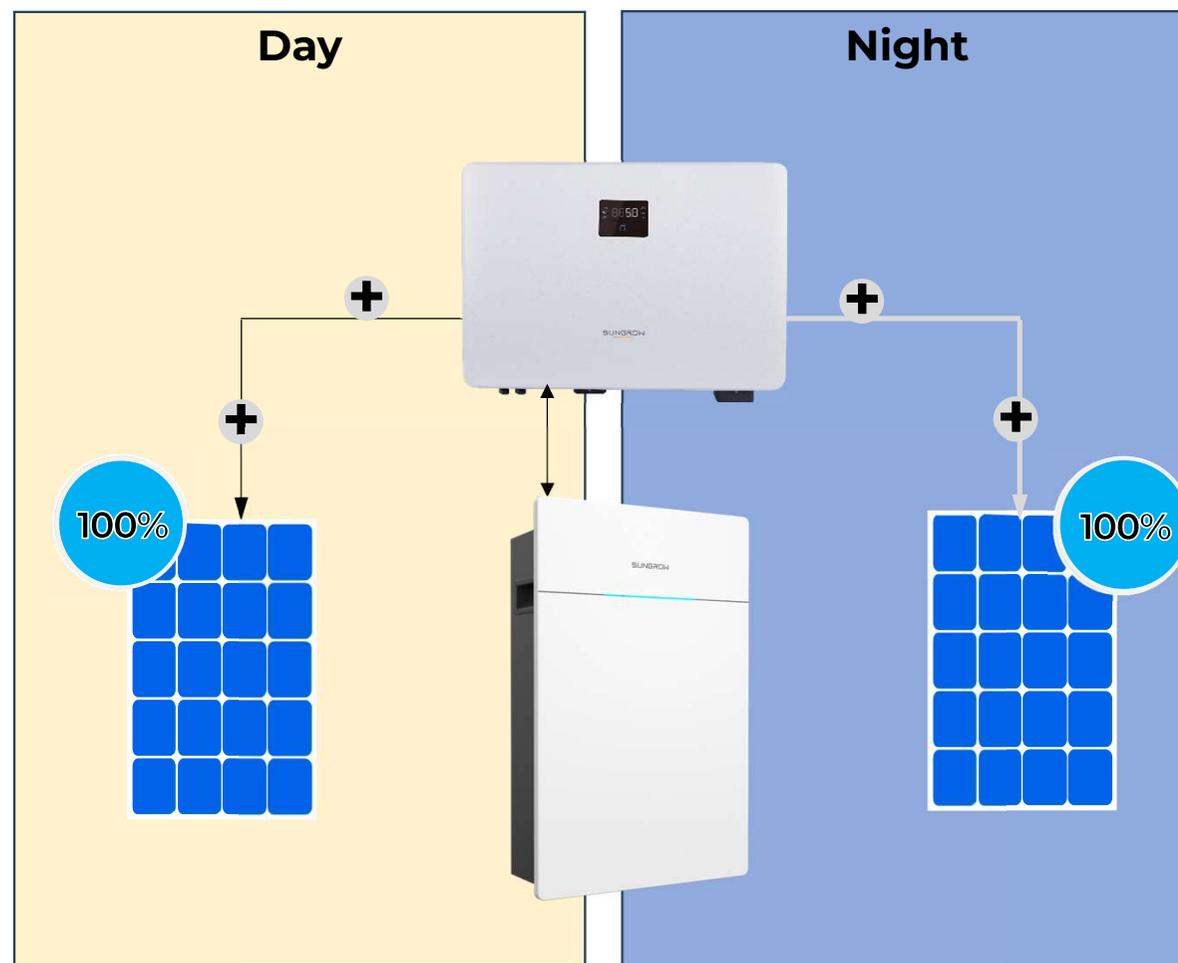
Residential Series

Backup Power Supply

- **Integrated Full Backup** Max. 6KVA backup power for whole portfolio. All home loads could be directly connected to the backup port.
- **Seamless Switching** 10ms switch time from grid blackout. No interruption to sensitive home appliances.
- **Inrush Withstand** Max. 8.4KVA peak power supply for up to 10secs, smoothly startup inrush loads e.g. Microwave oven, Vacuum cleaner etc.

PID Recovery

- Built-in new PID function which have better performance, including restraint in the daytime and recovery at night,
- PV panels fully recovery
- Patented and advanced algorithm
- PID recovery could work even in the off-grid mode.



AFCI Function

- **Cables Max. distance 200m** : Suitable for inverter installed in basement
- **Rapid shutdown** to avoid damage to the house in chase of DC arc fault
- **Advanced** “Dual closed-loop self-learning” algorithm will ensure inverter stays shutdown in case of repeated arcs



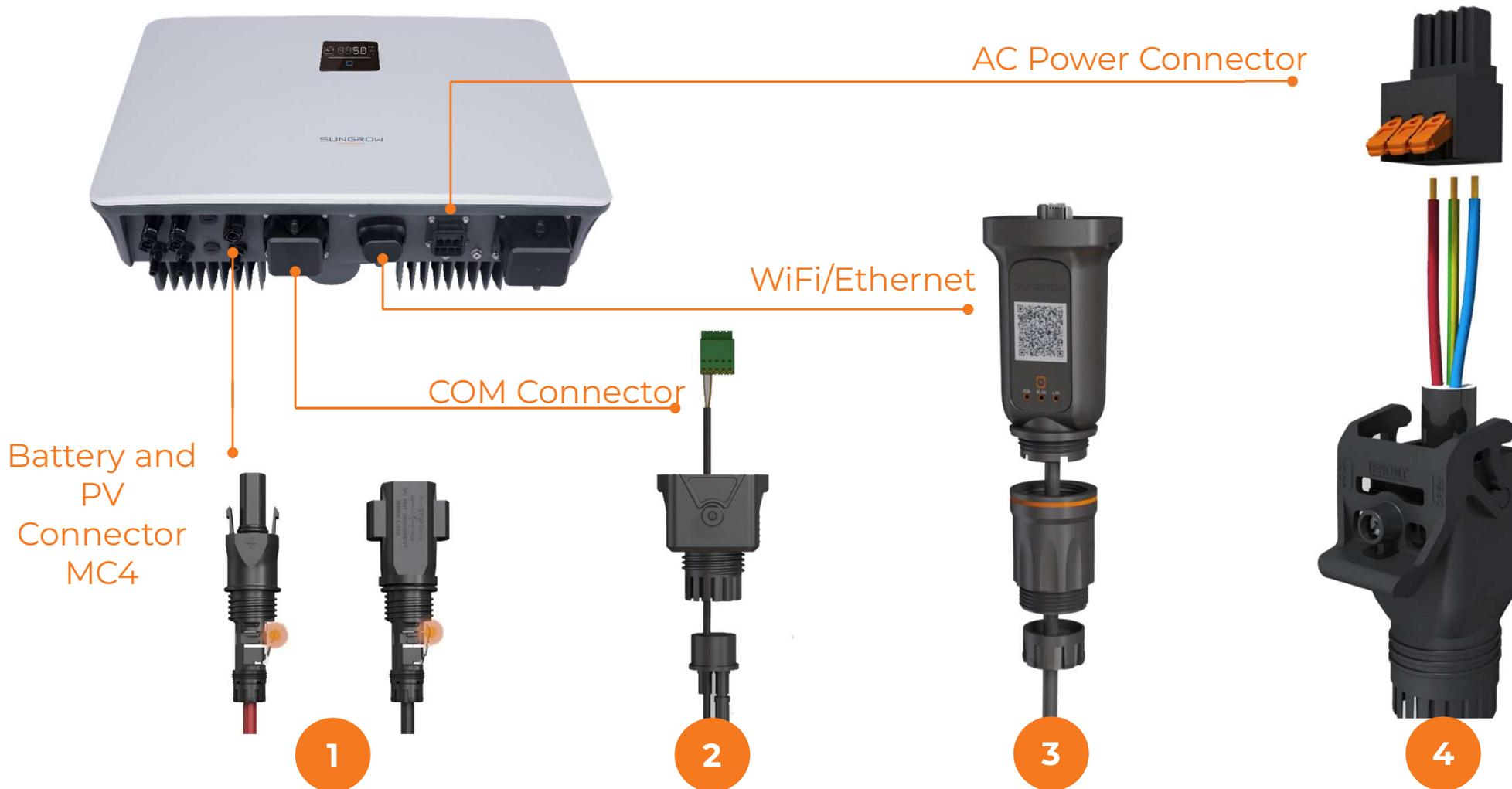
Small and light

- Under 18.5kg, for easy one man work and installation



Fast Connector

PUSH-IN CONNECTORS



Simple commissioning and O&M

iSolarCloud

- One-click to create your own plant
- Support remote and local access
- 10s monitoring refresh rate
- Fault recorder
- Remote FW upgrade and O&M





LED Display

- **Long life-time LED display** and visible in bright and dark environment
- **Power, Yield, Battery SOC, Fault** at one glance

WiNet-S



Intelligent management

- Support WLAN or Ethernet
- 10sec-level data interval
- Multi-path data uploading
- Fault recorder



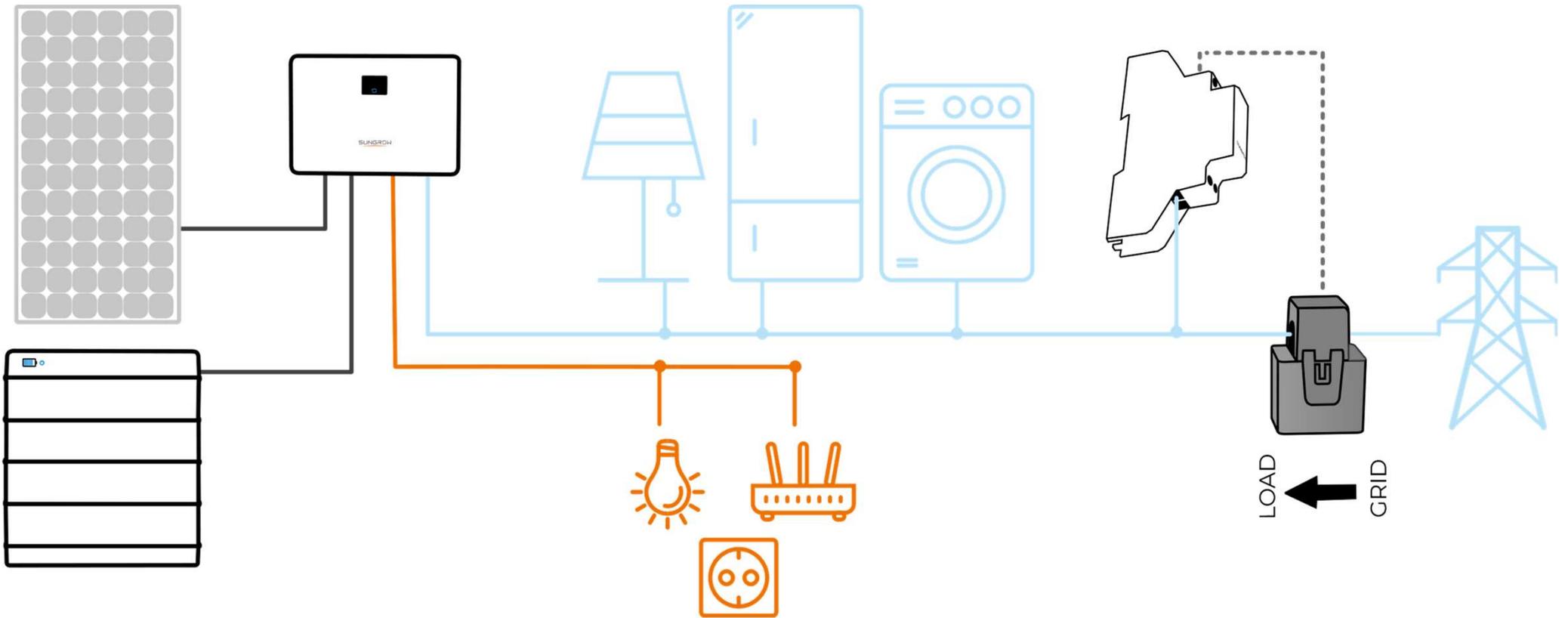
Easy deployment

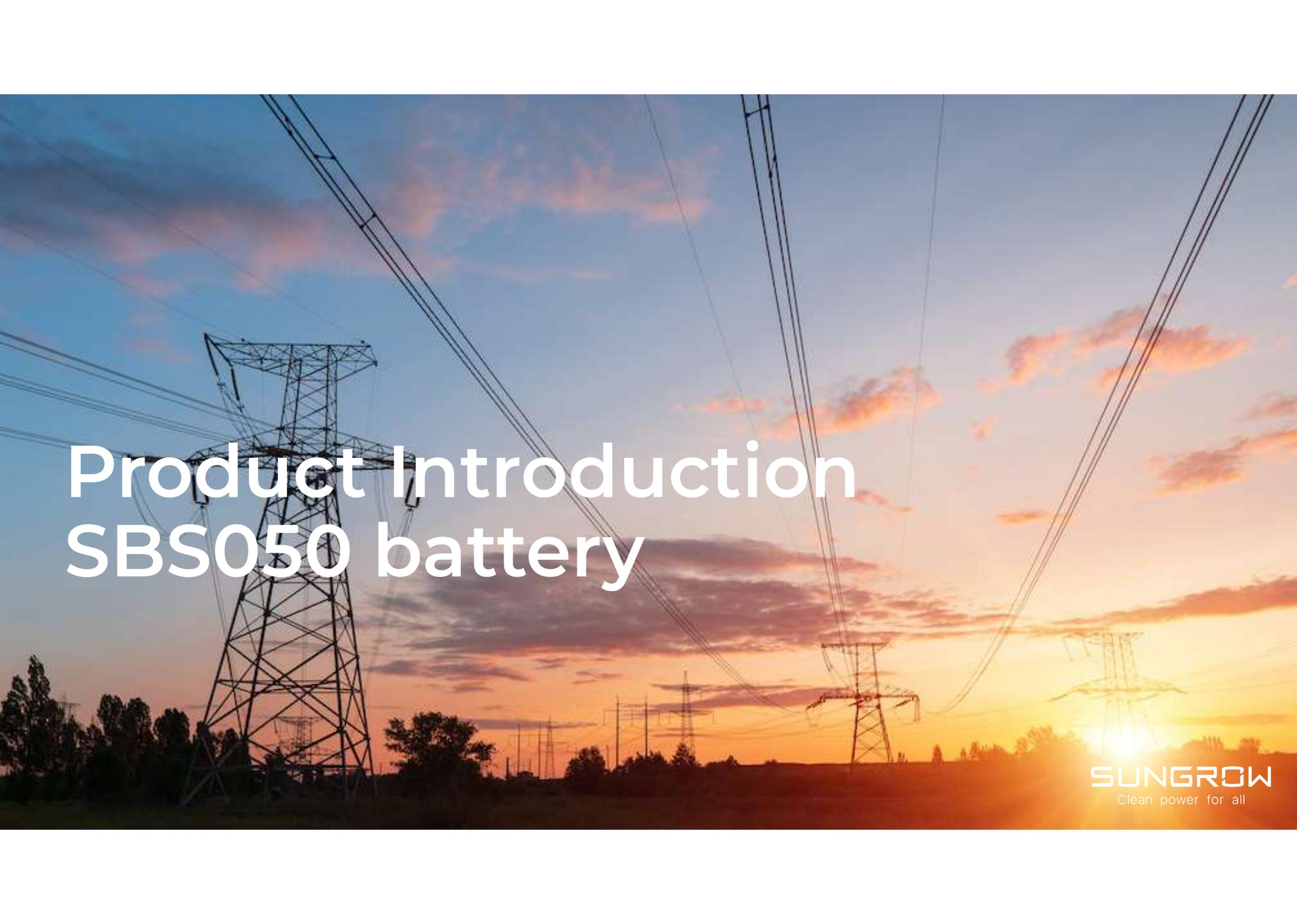
- Plug and play
- Support WLAN and Ethernet



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SHRS – S100 Meter Installation





Product Introduction SBS050 battery

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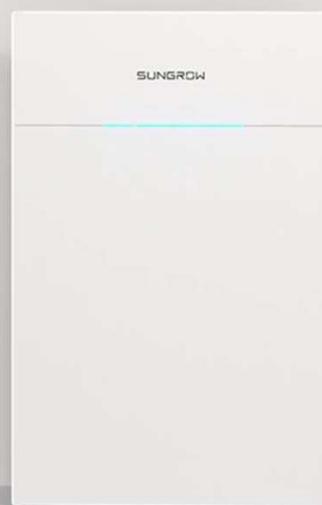
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Home energy storage solution

Your Entry Point into Energy Storage

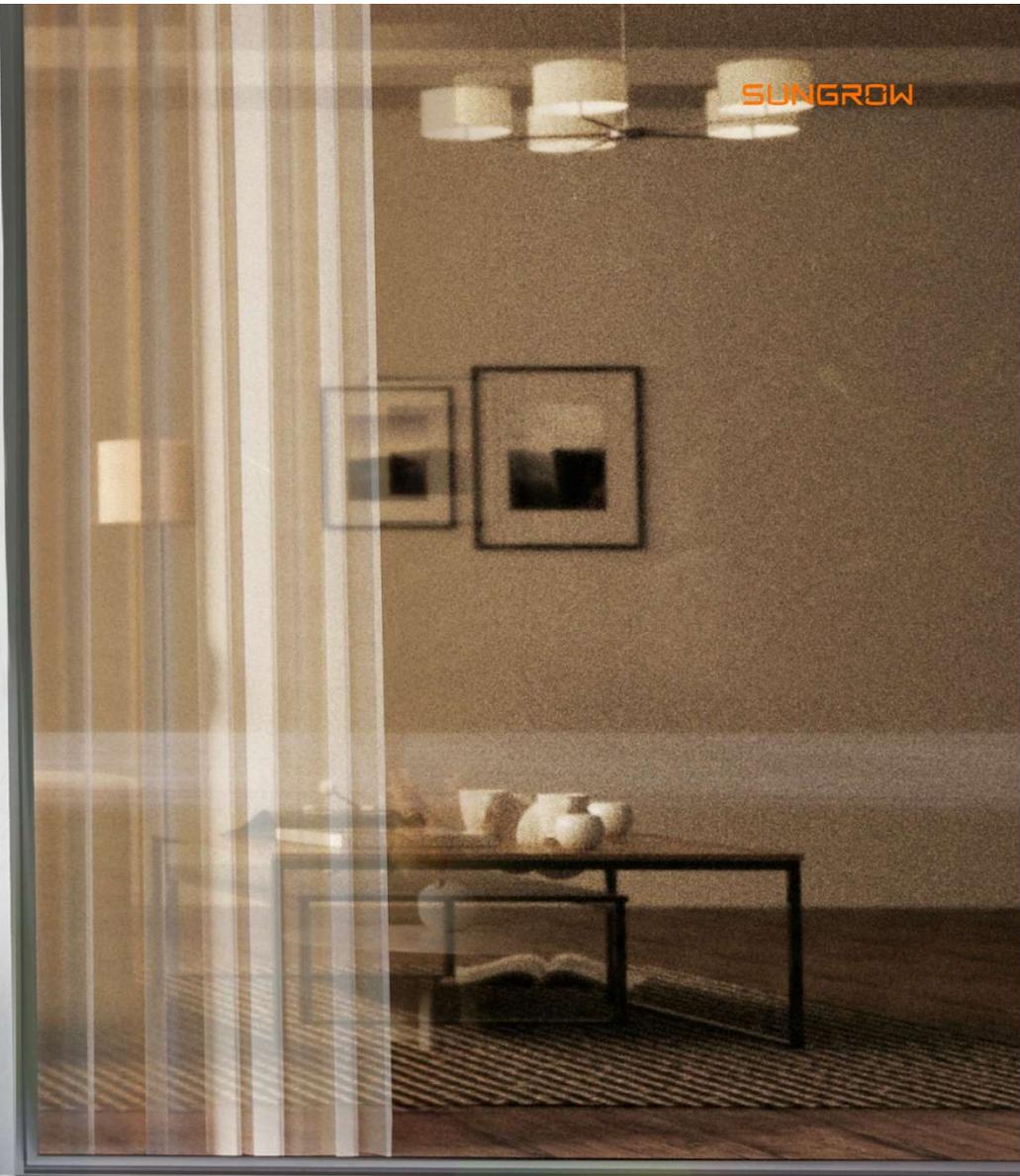
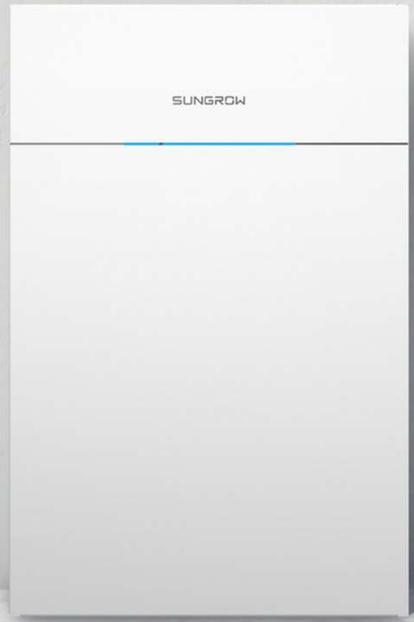
SBS050, compatible with SUNGROW SHRS Inverter



SUNGROW

SBS050+SHRS Simple, Safe, and Ready to Grow with You

New to energy storage? Start right.
SUNGROW's new residential solution offers the ideal balance of affordability
and future-proof flexibility



SBS050

The new design, simple start.

All-in-One Design

5.12 kWh/per module

Expandable

Up to **4** units in parallel, energy capacity up to **20.48** kWh

Expansion within half a year

No combiner box is required for expansion

Energy Bar

Real-time status with breathing LED strips, shows 4-stage power levels.



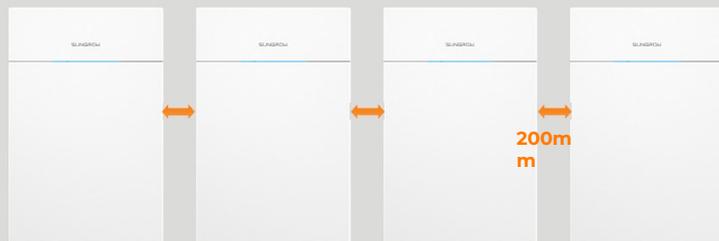
Space-Saving: Compact units fit garages, utility rooms, or outdoors.

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Floor-standing installation



Wall-mounted installation



Horizontal expansion



Vertical expansion

*Accessory from SUNGROW

SUNGROW

Entry-Level, Not Entry-Grade

SUNGROW

Suitable for Outdoor

Now IP65 / C5 certified!
Water / dust / corrosion resistant

Durable Material

Aluminum alloy one-piece die casting
32 LFP cells

Stable Operation

Charge: 0°C to 55°C
Discharge: -20°C to 50°C

Example - Meet the “5+5 Home”

SBS050+SH5.0RS home energy storage solution

5kWp MODULES

SH5.0RS

SBS050



ON/OFF-Grid

Seamless Switching < 10ms when off-grid



Emergency Backup

Ensure critical household loads remain powered during emergencies



Versatile System

Max. self consumption/shift peak tariff, reducing your electricity bill

OFF-Grid: **DG ready**

Grid/microgrid
adaption system



Diesel Generator



SBS050

System Data

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Battery type	LiFePO4 Prismatic Cell
Battery module	5.12kWh
Nominal voltage	102.4 V
Operating voltage	86.4 ~116.8 V
Rated charging/discharging current: continuous	30 A (charging) / 50 A (discharging)
Max. charging/discharging current	50 A (charging) / 50 A (discharging)
Display	SOC indicator, Status indicator

General Data

Dimensions (W*H*D)	515 * 780 * 182 mm
Weight	58 kg
Installation location	Indoor / Outdoor
Mounting method	Floor stand / Wall-mounted
Operating ambient temperature range	Charge : 0 to 55 °C Discharge : -20 to 50 °C
Degree of protection	IP65
Cooling method	Natural convection

*EU SHRS V11/V13 only have max30 charge and discharge current. compatible with SUNGROW SH3.0-5.0RS Inverter

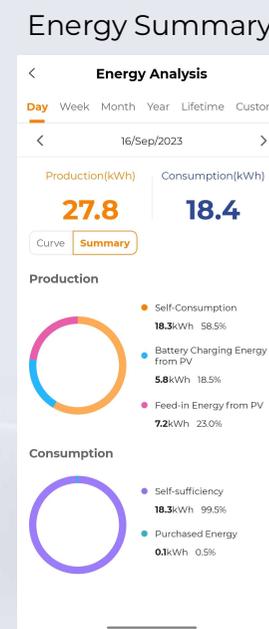
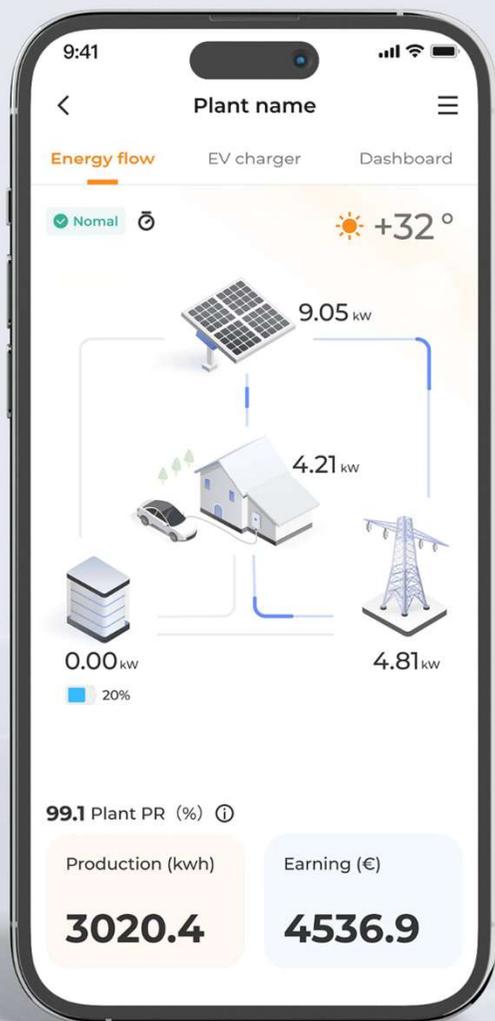
SBS vs SBR

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	SBS	SBR
Type	SBS050~200	SBR096~192
Battery type	LiFePO4 Prismatic Cell	LiFePO4 Prismatic Cell
	1 module with 1 CMU	2~6 modules with 1 CMU
Charge/Discharge Current	30A (SHRS)	30A (SHRS)
Dimensions	515 mm * 780 mm * 182 mm	625*545*330 mm ~ 625*935*330 mm
Weight	58kg	89 kg ~ 213 kg
IP protect class	IP65	IP55
Operating ambient temperature range	Charge : 0 °C - 55 °C Discharge : -20 °C - 50 °C	Charge: 0 °C - 50 °C Discharge: -20 °C - 50 °C
Installation	Wall-Mounted Floor-Mounted	Floor-Mounted
Warranty	10 years	10 years
Scalability	Max. 4	Max. 1
Max System energy	20.48kWh	19.2kWh

Easy Operation **One-cloud Control**

iSolarCloud streamlines everything seamlessly, help you to focus on the more important matters



10s data refresh

24/7 monitoring

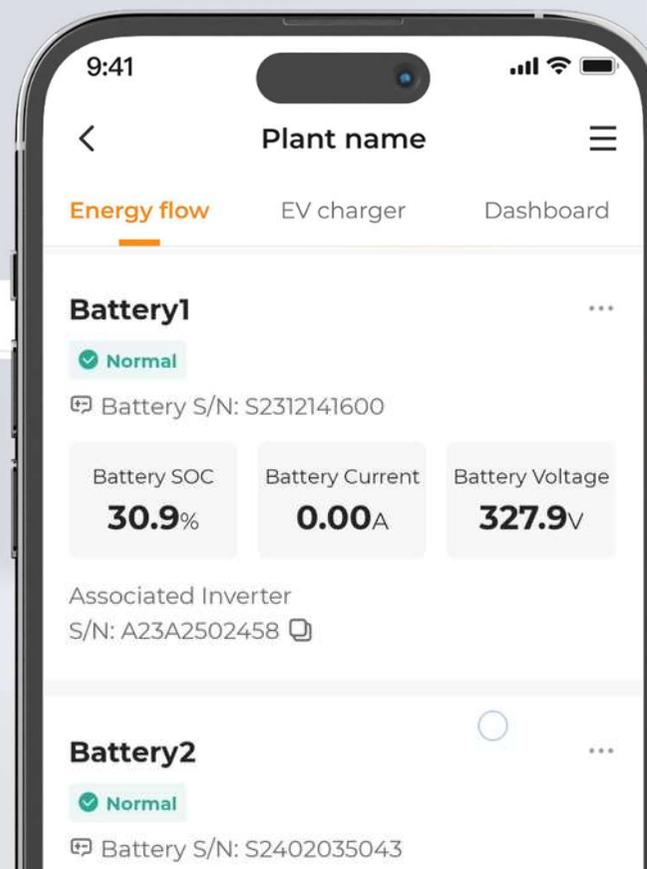
GDPR Certification

Real Time Monitoring of Battery Operation Status

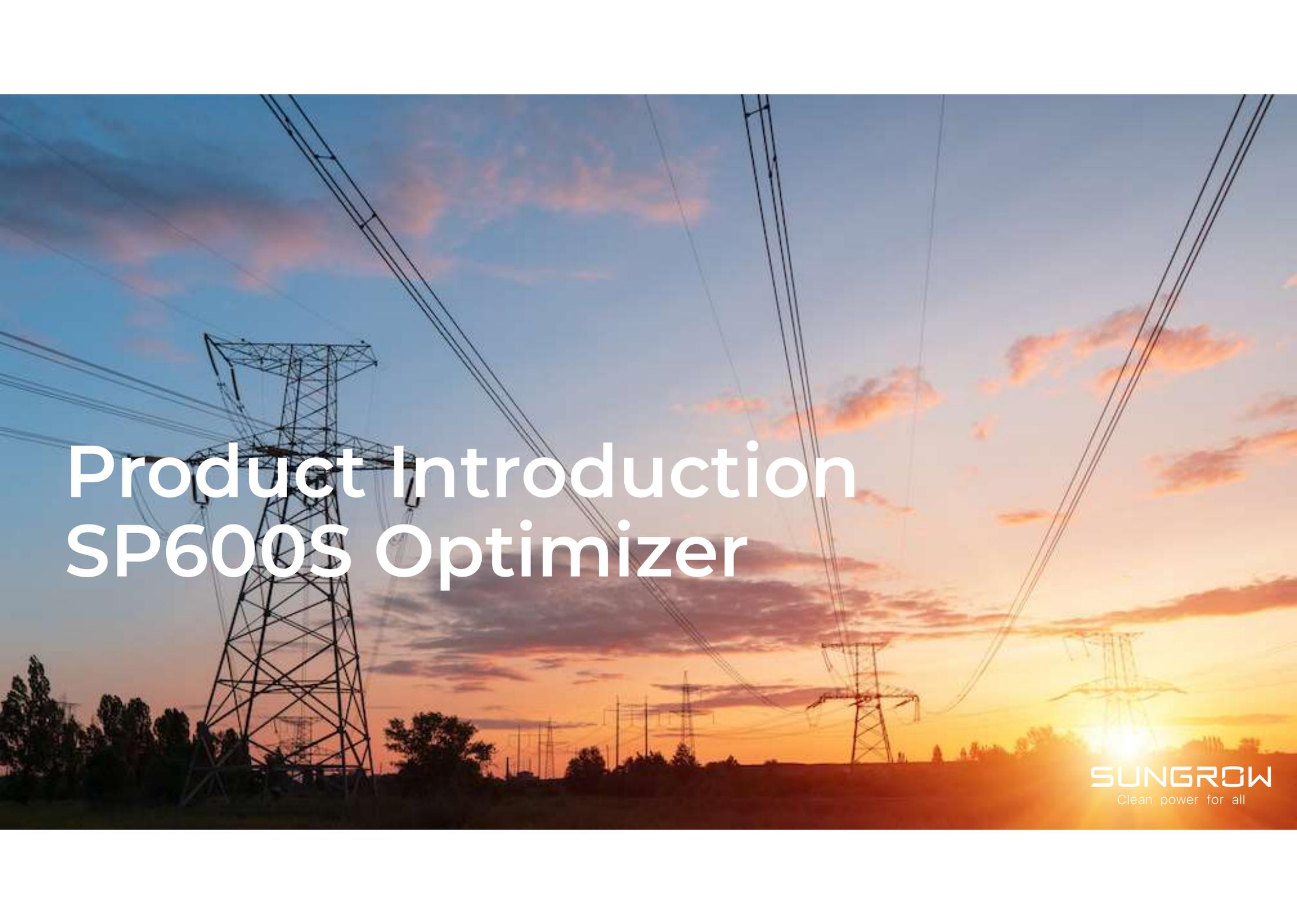
Refined Battery Management

Intelligent BMS+EMS

- ✓ Storage
- ✓ Charging
- ✓ Working Modes



Battery Information	
Total Battery Discharging Energy(kWh)	472.50
Total Battery Charging Energy(kWh)	589.80
Battery Health (SOH)(%)	100
Battery Temperature(°C)	32
Max. Charging Current (BMS)(A)	30.00
Max. Discharging Current (BMS)(A)	30.00
Total Battery Charging Energy(kWh)	589.80
Battery Health (SOH)(%)	100



Product Introduction SP600S Optimizer

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Clean power for all

SUNGROW POWER OPTIMIZER SP600S

MODULE-LEVEL OPTIMIZATION



SUNGROW POWER OPTIMIZER SP600S

MORE GENERATION, HIGHER YIELD

Module-level optimization

4% - 30% more power generation on average

Shadeproof control

Effectively reduce consumption by 1.5% – 15%

Voltage and current control

Optimizer voltage reduction and output current boost



SUNGROW POWER OPTIMIZER SP600S

FLEXIBLE SYSTEM DESIGN, EASY TO INSTALL



Flexible Design

Module-level optimization in multiple ways

Easy to Install

2in1 installation design snap-fit installation is tool-free

Free Choice of PV Modules

Adaptive to current modules and compatible with future modules with higher power



SUNGROW POWER OPTIMIZER SP600S

SAFE & RELIABLE



Module-level shutdown

Shutdown within 20s, much shorter than required by NEC2017 690 standard

IP68 & C5 protection

Long-term stable operation in harsh environments



PRODUCT COMPATIBILITY

COMPATIBLE WITH THE LATEST VERSION OF SUNGROW RESIDENTIAL INVERTERS

Compatibility list and versions:



SG3.0-6.0RS-V13



SG5.0-20RT-P2



SH3.0-6.0RS-V13





SHRS and SBS/SBR Compatibility

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BATTERY COMPATIBILITY

SH3.0-6.0RS V13 is compatible with:

- SBR096-192 (3 to 6 modules) all versions of modules and accessory box
- **SBR064 (2 modules) still supported only for existing installations**
- SBR050 (2 modules) only sold in Romania/Ukraine

- SBS050 (1 to 4 in daisy chain)
SHRS V11 with Sunclix connector is not compatible with SBS050

Max battery charge/discharge power depends on the model – SHRS limited to 30A DC current



COMPATIBILITY FACTSHEET

SH3.0-6.0RS Compatibility Overview



Communication

	Part of delivery	Max. Support	Features / Comment
WiNet-S/S2	yes	max. 1 device	10 sec. refresh, WiFi or Ethernet
EyeS4-EU	no	max. 1 device	10 sec. refresh, 4G

Compatibility with iHM in upcoming iHM FW version

Energy Meters

	Part of delivery	Feed-in limitation	Features / Comment
S100	yes	yes, 1 per host inverter	1x 100 A / 25 mA CT incl. For 2x SHRS in parallel, zero feed-in needs to be set
DTSU666 5(80)A*	no	yes, 1 per host inverter	For delta grid 3x 230 V operation without Neutral For 2x SHRS in parallel, zero feed-in needs to be set
DTSU666-20*	no	yes, 1 per host inverter	1x 100 A / 333 mV CT or 1x 250 A / 333 mV CT to be purchased separately 2x 100A/333mV CT for ATS + Diesel Generator Microgrid mode to be purchased separately For 2x SHRS in parallel, zero feed-in needs to be set

* only with meter version bought from Sungrow

EV-Charger

	Part of delivery	Max. Support	Features / Comment
AC007E-01	no	max. 1 device	Compatible with SHRS V11 and V13

MLPE

	Part of delivery	Features / Comment
SP600S	no	Compatible only with SHxxRS V13

2025 | VERSION 3.3



SH3.0-6.0RS

VERSIONS, STATUS

- SH3.0-6.0RS V11 (ASH00095-98)
 - Status: Phased out
- SH3.0-6.0RS V13 (ASH00115-119)
 - SP600S optimizer compatible
 - Status: Available in all single-phase markets
- **Full optimizer installations** should be configured, **where all PV modules** connected to the inverter are connected to the optimizers



SBR064-256 – SMR032+ ACCESSORY

VERSIONS, STATUS, COMPATIBILITY

- **Orange:** SMR032 V0 (ASA00104) SMR032 V114 (ASA00165) – phased out
- **Blue:** SMR032 V12 (ASA00282) SMR032 V13 (ASA00460) – phased out
- **No color:** SMR032 V13 (ASA00460) – universal module – status active

Universal module without color label can be mixed with any other SMR modules

- **SBR Accessory:** V114 (AST03129) V13 (AST04689)
Both compatible with all modules, must be updated to latest FW version on iSC

