

## Kehua SPH - The Best System for Energy Independence

### Investable

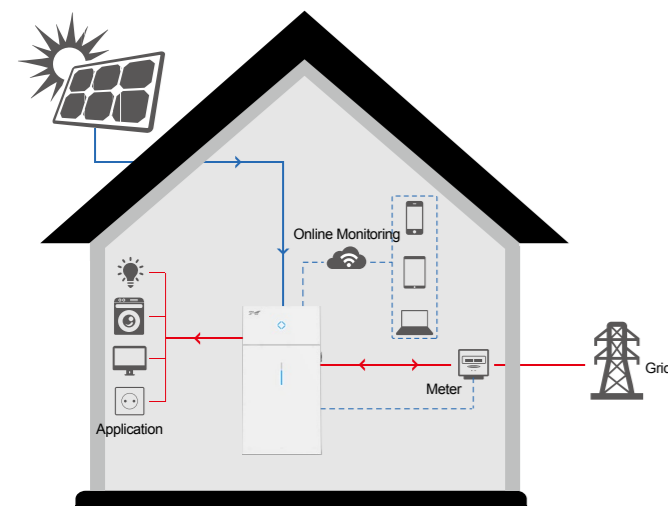
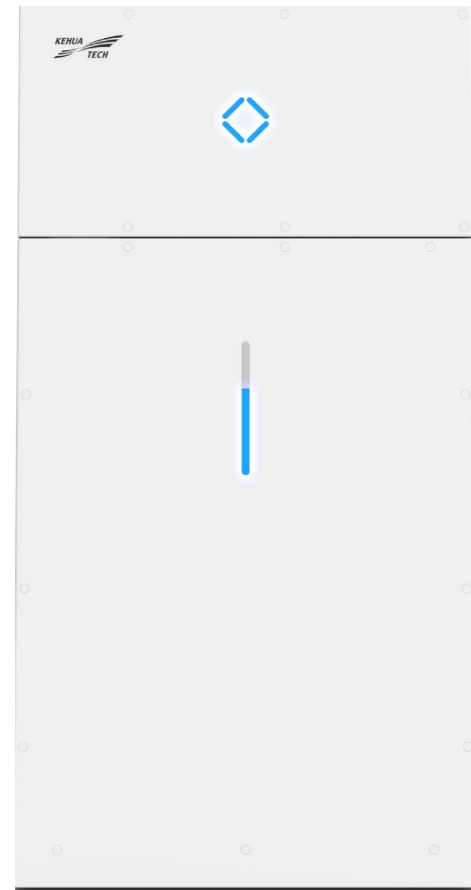
- More flexible application
- Better PV utilization
- Faster charging
- Higher battery efficiency

### Intelligent

- User-friendly interface
- Intelligent monitoring
- Smart power grids

### Integrated

- Easy installation
- Easy O&M
- Easy capacity expansion
- One-stop for all



### Off-grid Compatible

The SPH can be installed in a completely off-grid mode where no grid power is available.

### Power Export Control

SPH system gives you the right to adjust you system export power. If energy export is prohibited, system output will be adjusted according to load status and maximum allowable grid export.

## Technical Specification

Items	SPH3600-BH-S8	SPH5000-BH-S8	SPH6000-BH-S8
Battery Input			
Battery type	LiFePO4		
Battery capacity	8.2kWh		
Scalable capacity range	8.2~49.2kWh (95%DoD)		
Voltage range	100-400V		
Operating temperature range	-10°C~50°C*		
Cycles	10000**		
PV Input			
Max. PV input power	6000W	7500W	9000W
Max. PV input voltage	580Vdc		
MPPT voltage range	100Vdc~ 550Vdc		
Max input current	13.5A dc×2		
On-grid Output			
Rated output power	3600W	5000W	6000W
Rated output voltage	220/230/240Vac		
Grid frequency range	50Hz/60Hz		
Rated output current	15.7A	21.7A	26.1A
Power factor	>0.99		
Max efficiency	97.70%		
Europe efficiency	97.10%		
THDi	<3%		
Battery Inverter (Emergency Mode)			
Rated output voltage	220/230/240Vac		
Output frequency	50(60)Hz		
Output power	3600W	5000W	6000W
Transfer time	<10ms		
Voltage harmonic	<2% (linear load)		
Battery Charge-Discharge			
Rated charging voltage	85Vdc~450Vdc		
Max charging power	3600W	5000W	6000W
Max charging current	30A (settable)		
Max discharging power	5400W	7500W	9000W
System			
Cooling type	Natural cooling		
IP grade	IP65		
Noise	<25dB		
Display	LED/APP		
Relative humidity	0 ~ 100%, non condensation		
Operating temperature range	-25°C~ +60°C		
Altitude	3000m		
On-grid standard	VDE0126-1-1, VDE-AR-N4105 , AS4777.2/3, CEI 0-21		
Safety	IEC62109-1, IEC62109-2, AS62040-1-1		
EMC	EN61000-6-3, EN61000-6-2		
Communication	RS485, WiFi/GPRS, Meter		
Accessories	CT, Meter		
Dimensions (W×H×D)	580×1120×217mm		

\* Temperature is less than 0°C or more than 40°C, battery performance will decrease

\*\* Under certain test conditions

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## Residential Energy Storage System SPH-BH-S Series

PV+ESS for the Future

# Enjoy Energy Independence

With Kehua Energy Storage System + PV, it is now possible to effectively manage day and night solar in your home.

Add in blackout protection and the option to join a virtual power plant to give your customers a complete energy solution.



## Use Solar Power More

### Self-consumption

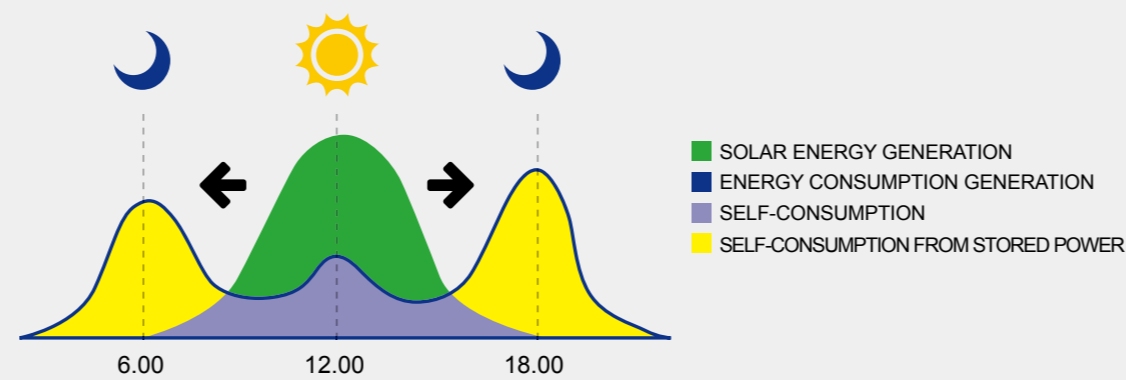
The Kehua SPH automatically stores excess solar power during the day for use later in the day or at night without any user input required.

### Load Shifting (Peak Shaving)

The Kehua SPH provides charge and discharge time settings for customers on Time of Use rate schedules so they can pre-charge when the price of power is low, and save the energy for use when grid power prices are high.

### Operation Scheduling

The Kehua SPH system is virtual power plant compatible which means that any excess battery energy can be utilized by the grid or electricity retailers to provide additional savings and lead the way towards 100% renewable.



### Cloud Compatible Control

The Kehua SPH supports remote real time energy monitoring, dispatching, and has an API to connect with virtual power plants or other grid services through the cloud.

### Energy Backup (UPS Mode)

Kehua SPH can work as an energy backup unit, providing uninterrupted blackout protection when the grid goes down.



### Manage Your Energy Anytime, Anywhere

With Kehua WiseSolar, customers can manage and control their energy consumption and production. Available via smartphone or tablet, the APP allows customers to monitor, analyze and control their Kehua SPH system from anywhere in the world.