



Company :Suzhou Stealth Energy Technology Co., Ltd.

EMAIL:sales@stealthenergy.cn

Website:www.stealthenergy.cn

Address: NO.198 Jinfeng Road New District Suzhou

STEALTH ENERGY
THE AFFORDABLE ENERGY THAT
STANDS BY YOU

Suzhou Stealth Energy Technology Co., Ltd.

Who we are?

Suzhou Stealth Energy Technology Co., Ltd.

is a state-level high-tech enterprise integrating R&D, production, sales and service of energy storage systems. Stealth Energy is backed by Suzhou WSHY Energy Technology Co., LTD., a well-known comprehensive energy company, and SND Ventures Group, which provides long-term solutions for energy storage system for home user.

Why we do what we do?

- 01 Climate change is a major crisis facing mankind in the 21st century, with serious consequences for human health, food security and ecosystems. Human activity is the main cause of the climate change. The Paris agreement of limiting global warming to 2 celsius can be achieved if we take action now to replace conventional energy sources with the renewable ones.
- 02 Energy shortage is becoming a crisis sweeping Europe and even the world. Gas prices and electricity prices have soared in many countries. The development and application of energy storage systems can greatly reduce the cost of electricity, provide a stable power supply, and bring long-term economic benefits and a more convenient life.

Why choose us?

R & D INVESTMENT

100%

AND INCREASING

CURRENT PATENTS

100+

PROJECTS

RESEARCH AND DEVELOPMENT

20000+

HOURS

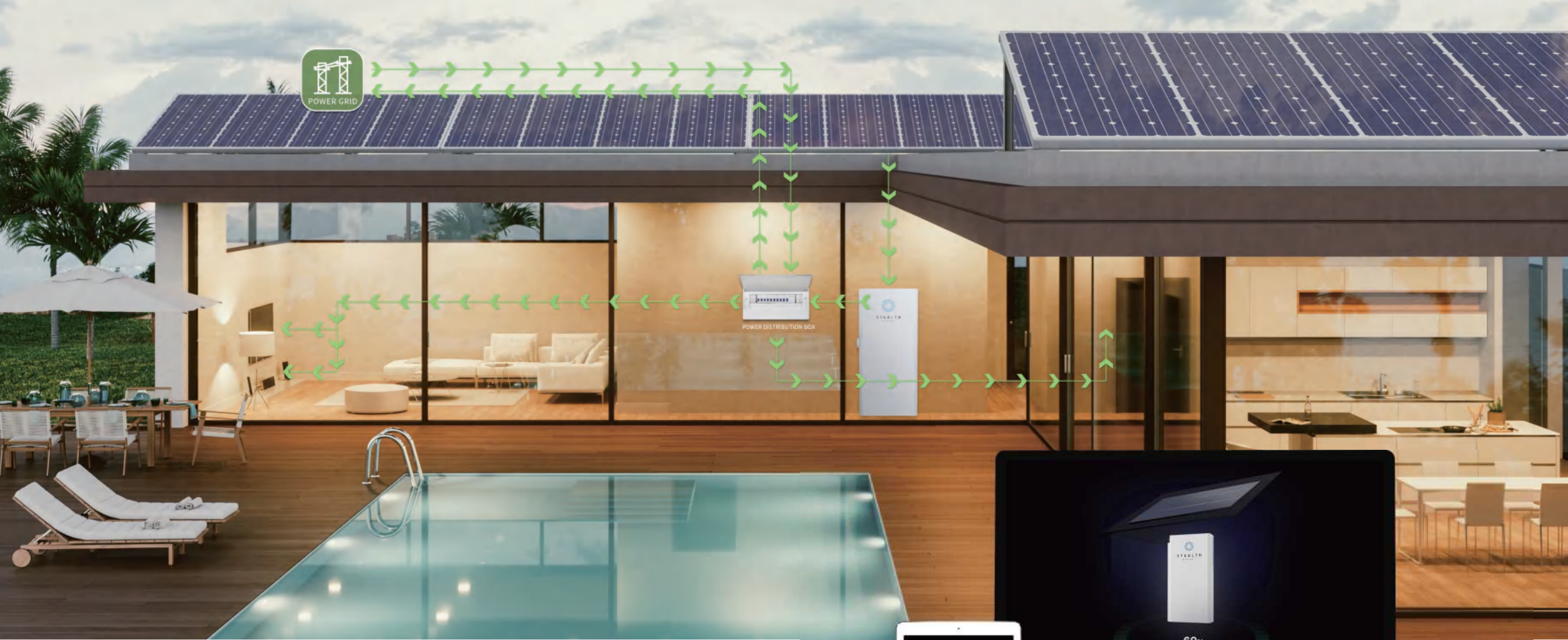
one-stop solutions for every step you make

Our vision: To bring clean and affordable energy to every family

Our Mission: To let Technology Drive the Energy Revolution

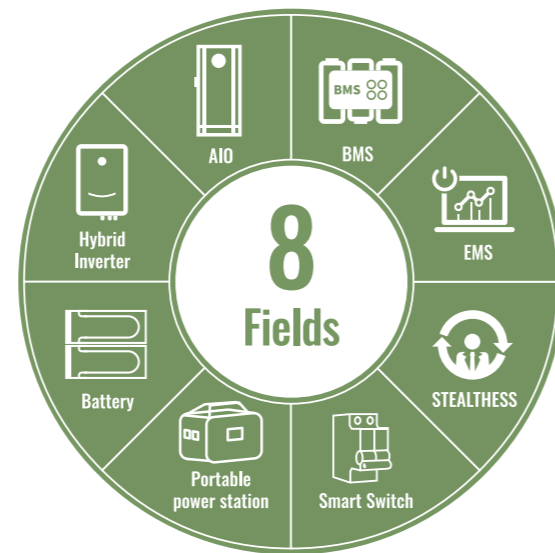
Stealth is a leader in residential energy storage and a pioneer in energy storage technology innovation. The company is customer-oriented, relying on strong R & D to follow a line of scientific and technological innovation to provide the user with the best product experience, the best product performance and the safest products guaranteed. We will create your home green energy ecosystem with perfect products and high-quality services.

Stealth energy, the affordable energy that stands by you .



Stealth Smart Home Energy Ecosystem

Through solar panels, home energy storage equipment, smart switches and APP- StealthESS. Stealth has built a safe, reliable, and smart home energy ecosystem. While maximizing the self-use rate of new energy, through the Stealthess and smart switches, you can manage and monitor the energy consumption of each switch installed in the house. Giving you control over the energy flow in your own home, increasing efficiency and safety while reducing power consumption. Stealth is creating an end-to-end residential ecology that meets the high demands for the new energy lifestyle.



Core Competence





StealthESS


The Stealth ESS allows you to have full visibility into your Stealth Smart home energy ecosystem, you can monitor your home solar generation, battery power flow and household consumption in real-time. Meanwhile, you can manage and control the energy consumption of each switch installed in the house.

5KW SINGLE PHASE HYBRID INVERTER


ST-INV-S series FEATURES

 Max. efficiency 97.6% with ultra-low start-up voltage

 Fast and dynamic MPPT and industry-leading DC voltage range

 Intelligent EMS function can use solar power 24/7 and lower you energy bills

 Off-grid backup function in less than 200ms

 7 years standard warranty with extension options to 15 years.

 IP65 protection



Product parameters

Input(DC)	ST-INV-S5.0	ST-INV-S4.0	ST-INV-S3.68	ST-INV-S3.0
Max. PV power[Wp]	6000	5000	4600	4000
Max. DC input voltage [V]	550	550	550	550
Rated DC voltage [V]	360	360	360	360
Max. input current [A]	16/16	16/16	16/16	16/16
Max. short current [A]	20/20	20/20	20/20	20/20
MPPT voltage range [V]	125-530	125-530	125-530	125-530
Start-up voltage [V]	100	100	100	100
Number of MPPTs	2(1/1)	2(1/1)	2(1/1)	2(1/1)

Input (AC)

Max. AC power [VA]	9200	5750	5750	5750
Max. AC current[A]	40	25	25	25
Rated grid voltage[V]	220/230/240(180-270)	220/230/240(180-270)	220/230/240(180-270)	220/230/240(180-270)
Rated grid frequency [Hz]	50/60	50/60	50/60	50/60

Output (AC)

Max. AC power [VA]	4991	4000	3680	3000
Rated grid voltage [V]	220/230/240(180-270)	220/230/240(180-270)	220/230/240(180-270)	220/230/240(180-270)
Rated grid frequency [Hz]	50/60	50/60	50/60	50/60
Max. AC current [A]	21.7	17.4	16	13.1
Power factor	0.8 leading-0.8 lagging	0.8 leading-0.8 lagging	0.8 leading-0.8 lagging	0.8 leading-0.8 lagging
THDi [%]	<2	<2	<2	<2

EPS Output (with battery)

EPS Max. power[VA]	4600	3800	3500	2900
EPS rated voltage [V], Frequency [Hz]	230, 50/60	230, 50/60	230, 50/60	230, 50/60
EPS Max. current[A]	20	16.6	15.3	12.6
Transfer time [ms]	<200	<200	<200	<200
THDi [%]	<2	<2	<2	<2

Efficiency

PV Max. efficiency	97.60%
PV Europe efficiency	97.00%
PV Max. MPPT efficiency	99.00%
Max. charging efficiency (PV to BAT)	98.20%
Max. charging efficiency(Grid to BAT)	97.40%
Max. discharging efficiency(BAT to Grid)	97.50%

Battery

Battery voltage range [V]	85-400
Max.charge/discharge current [A]	25
Communication	CAN/ RS485
Electronic protection	YES

Standard and Certification

Safety	IEC62109-1/-2
EMC	EN 61000-6-1/ EN 61000-6-2/ EN 61000-6-3
Grid regulation	VDE-AR-N 4105 / AS4777 / EN50549-1 / CEI0-21

General Data

Dimensions (W*H*D) [mm]	411*505*192
Weight [kg]	18
Cooling method	Natural
Topology	Transformerless
Communication	Ethernet/ Meter/ Pocket WiFi (optional) / Pocket LAN (optional) / Pocket GPRS (optional) / DRM/ USB/ ISO alarm/ CT
Warranty [year]	5-10

Environmental Limit

Ingress protection	IP65
Operating temperature range [°C]	-25~60 (derating >45)
Altitude [m]	<2000
Humidity [%]	0~100 (RH)
Storage temperature (°C)	-25~60
NI[dB]	<30

Power Consumption

Night power consumption	<10
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THREE PHASE HYBRID INVERTER

ST-INV-Tseries FEATURES

-  Max. efficiency 98.6% with ultra-low start-up voltage
-  Support multiple inverters in parallel, maximum of 16 machines
-  Fast and dynamic MPPT and industry-leading DC voltage range
-  Intelligent EMS function can use solar power 24/7 and lower you energy bills
-  IP65 Protection
-  Off-grid backup function in less than 200ms
-  7 years standard warranty with extension options to 15 years.



Product parameters

Input(DC)	ST-INV_T10.0	ST-INV_T8.0	ST-INV_T6.0	ST-INV_T5.0
Max. PV power [Wp]	15000	12000	9000	8000
Max. DC input voltage [V]	1000	1000	1000	1000
Rated DC voltage [V]	620	620	620	620
Max. input current [A]	16/16	16/16	16/16	16/16
Max. short circuit current [A]	21.2/21.2	21.2/21.2	21.2/21.2	21.2/21.2
MPPT voltage range [V]	200-850	200-850	200-850	200-850
Start-up voltage [V]	180	180	180	180
Number of MPPTs	2(1/1)	2(1/1)	2(1/1)	2(1/1)
Input (AC)				
Max. AC power [VA]	15000	15000	13000	10000
Max. AC current [A]	22.7	22.7	19.7	15.2
Rated grid voltage [V]	400/230;380/220	400/230;380/220	400/230;380/220	400/230;380/220
Rated grid frequency [Hz]	50/60	50/60	50/60	50/60
Output (AC)				
Rated output power [VA]	10000	8000	6000	5000
Max. AC power [VA]	11000	8800	6600	5500
Rated grid voltage [V]	400/230;380/220	400/230;380/220	400/230;380/220	400/230;380/220
Rated grid frequency [Hz]	50/60	50/60	50/60	50/60
Max. AC current [A]	15.9	13.5	10.5	8.5
Power factor	0.8 leading to 0.8 lagging	0.8 leading to 0.8 lagging	0.8 leading to 0.8 lagging	0.8 leading to 0.8 lagging
THDi[%]	<3	<3	<3	<3
EPS Output (with battery)				
EPS rated Max. power[VA]	10000	8000	6000	5000
EPS rated voltage [V], Frequency [Hz]	400/230;380/220;50/60	400/230;380/220;50/60	400/230;380/220;50/60	400/230;380/220;50/60
EPS Max. current[A]	15.9	13.5	10.5	8.5
Transfer time [ms]	<100	<100	<100	<100
THDi [%]	<2	<2	<2	<2
Efficiency		Battery		
MPPT efficiency[%]	99.9	Battery voltage range [V]		180-600
European efficiency[%]	97	Max. charge/discharge current [A]		25
Max. efficiency[%]	97.8	Communication		CAN/ RS485
Battery charge and discharge efficiency[%]	97.5/96.5	Electronic protection		YES
Protection				
Over-voltage protection/Low-voltage protection	YES	Standard and Certification		
Ground fault monitoring	YES	Safety	IEC62109-1/-2	
Grid monitoring	YES	EMC	EN 61000-6-1/ EN 61000-6-2/ EN 61000-6-3	
Environmental Limit		Grid regulation	VDE-AR-N 4105 / AS4777 / EN50549 / CEI0-21	
Ingress protection	IP65	General Data		
Operating temperature range [°C]	-25~60 (derating at >45)	Dimensions (W*H*D) [mm]	457*654*228	
Altitude [m]	<2000	Weight [kg]	28	
Humidity [%]	0-100 (RH)	Cooling Method	Natural	
Storage temperature (°C)	-25~60	Topology	Non-isolated	
NI[dB]	<30	Communication	Meter/ Pocket WiFi (optional) / Pocket GPRS (optional) / DRM/ ISO alarm	
Power Consumption		Warranty [year]	5-10	
Night power consumption [W]	<25 for hot standby.<3 in cold standby			



AIO FEATURES

30 min Easy installation: one person and half hour

W Ultra-high power density ratio

10 YEARS Warranty: 10 years or 10000 cycles

W Customize capacity as required: 5.5 to 33.2 kWh

W Superior interface experience

W Ultra safe, durable LiFePo battery technology

W Child and pet friendly design

Technical Specifications

Model	AIO-S5B5	AIO-S5B8
BATTERY		
Battery type	LFP	
Voltage range[V]	160-230.4	240-345.6
Nominal energy(kWh)	5.53	8.29
DOD	95%	
Max. charge/ discharge current [A]	25	
Communication interfaces	CAN/ RS485	
Reverse connect protection	YES	

Input(DC)

Max. PV power [Wp]	6000
Max. DC input voltage [V]	550
Rated DC voltage [V]	360
Max. input current [A]	16/16
Max. short current [A]	20/20
MPPT voltage range [V]	125-530
Start-up voltage [V]	100
Number of MPPTs	2(1/1)

Output (AC)

Rated output power [VA]	4991
Max. AC power [VA]	4991
Rated grid voltage [V]	220/230/240(180-270)
Rated grid frequency [Hz]	50/60
Rated AC current [A]	21.7
Max. AC current [A]	21.7
Power factor	0.8 leading to 0.8 lagging
THDi[%]	<2

Input (AC)

Max. apparent AC power [VA]	9200
Max. AC current [A]	40
Nominal grid voltage (AC voltage range) [V]	220/230/240(180-270)
Nominal grid frequency/ range [Hz]	50/60

EPS Output (With Battery)

EPS Max. power [VA]	4600
EPS rated voltage [V], Frequency [Hz]	230, 50/60
EPS Max. current [A]	20
EPS peak power [VA]	6000
Changeover time [ms]	<200
THDv, linear Load [%]	<2

Efficiency

PV Max. efficiency [%]	97.6
PV Europe efficiency [%]	97
PV Max. MPPT efficiency [%]	99.9
Max. battery charge efficiency (PV to BAT) [%]	98.2
Max. battery charge efficiency (GRID to BAT) [%]	97.4
Max. battery discharge efficiency (BAT to AC) [%]	97.5

Power Consumption

Night power consumption [W]	<10
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Protection

Over-voltage protection/Low-voltage protection	YES
Ground fault monitoring	YES
Grid monitoring	YES

Standard

Safety	IEC62109-1/IEC62109-2/IEC62619
EMC	EN 61000-6-1/ EN 61000-6-2/ EN 61000-6-3
Certification	VDE-AR-N 4105 / AS4777 / EN50549 / CEI 0-21

Environment Limit

Ingress protection	IP54
Operating temperature range* [°C]	0-45
Altitude [m]	<2000
Humidity [%]	5-95%
Typical noise emission [dB]	<30

Dimension And Weight

Dimensions (WxHxD) [mm]	640*1000*220	640*1300*220	640*1590*220
Weight [kg]	73	105	137
Cooling method	Natural		
Topology	Transformerless		
Communication interfaces	Ethernet/ Meter/ Pocket WiFi (optional) / Pocket LAN (optional) / Pocket GPRS (optional) / DRM/ USB/ ISO alarm/ CT		
Cycle life**	12000		

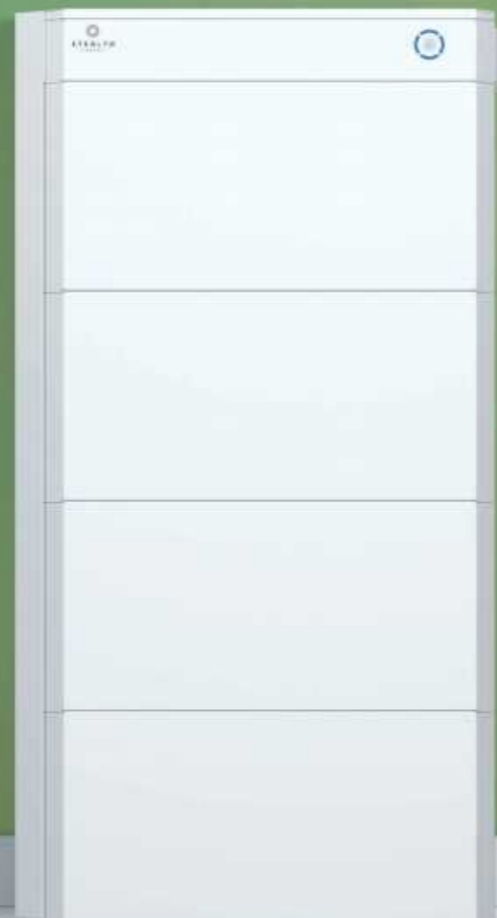
* When the temperature is below 0 °C or above 40 °C, the performance will be limited.

** Under specific test conditions

SP-HEHV27 Series

FEATURES

-  Flexibility module design
-  Reliable performance
-  95% DOD with more usable capacity
-  Expandable from 5.53 to 55.3 kWh
-  IP 65 Protection
-  Warranty: 10 years or 10000 cycles




Product parameters

Module	1	2	3	4	5
System model	SP-HE10227-H	SP-HE20427-H	SP-HE30727-H	SP-HE40927-H	SP-HE51227-H
Battery model	SP-HE10227				
Battery type	LFP				
Basic Parameters					
System capacity(kWh)	2.76	5.53	8.29	11.05	13.82
Voltage range(Vdc)	80-115.2	160-230.4	240-345.6	320-460.8	400-576
Dimension (mm)	W		640± 5		
	D		220± 5		
	H	380± 5	640± 5	940± 5	1220± 10
Weight(kg)	30.5± 1	57.5± 1	80.5± 1	111.5± 1	138.5± 1
Depth of discharge	95%				
Charge/ Discharge current(A)	Recommend	27			
	Max	30			
	Peak@15s	33			
Communication port	RS485, CAN				
Ingress protection	IP65				
Working temperature*	0°C~45°C				
Humidity	5-95%				
Altitude	<2000m				
Design life	10Years (25°C)				
Cycle life	>6000 (25°C)				
Authentication level	IEC62619/CE/UN38.3				


* Unpacked products can be stored at an ambient temperature of - 20 C ~ 60 C , but there will be capacity attenuation during high-temperature storage.


SP-HE4850 Series

FEATURES

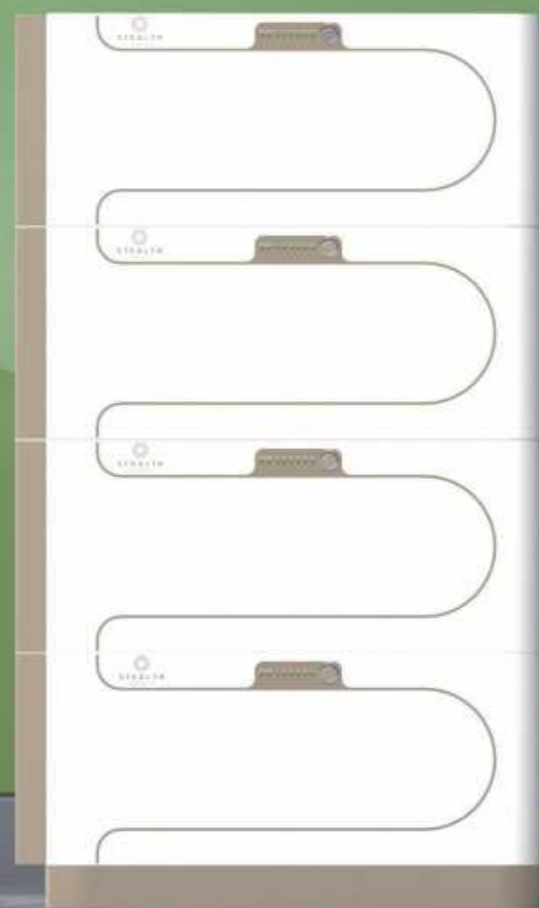
 95% DOD with more usable capacity

 Expandable from 2.4 to 19.2kWh

 Warranty: 10 years or 10000 cycles

 Flexibility module design

 Reliable performance



Product parameters

Module	1	2	3	4	5	6	
System model	SP-HE4850*1	SP-HE4850*2	SP-HE4850*3	SP-HE4850*4	SP-HE4850*5	SP-HE4850*6	
Battery model	SP-HE4850						
Battery type	LFP						
Basic Parameters							
System capacity(kWh)	2.4	4.8	7.2	9.6	12	14.4	
Voltage range(Vdc)	41-54						
Dimension (mm)	W	650					
	D	230					
	H	250	500	750	1000	1250	1500
Weight(kg)	33	66	99	132	164	196	
Depth of discharge	90%, 10%-100%						
Charge/ Discharge current(A)	Recommend	25	50	75	100	100	100
	Max	50	100	100	100	100	100
	Peak@15s	52	104	104	104	104	104
Communication port	RS485,CAN						
Ingress protection	IP20						
Working temperature*	0°C~50°C						
Storage temperature	-20°C~60°C						
Humidity	5%-95%						
Altitude	<2000m						
Design life	10Years (25°C)						
Cycle life**	>6000 (25°C)						
Authentication level	IEC62619/IEC62477/IEC62040/CE/UN38.3						

* When the temperature is below 0 °C or above 40 °C, the performance will be limited.

** Under specific test conditions






Product parameters

Model	Singo600		Singo1000	
	110Vac	220Vac	110Vac	220Vac
Battery Input				
Battery input nominal voltage [V]	22.5			
Battery input voltage range[V]	18.2~26			
Battery capacity[Wh]	672		1008	
Nominal charging current[A]	25A		36A	
Nominal discharging current[A]	30A		45A	
Max. discharging current[A]	30A		45A	
Life cycles (@25°C,1C discharge)	2000			
AC Input				
AC charging power [W]	500		800	
Nominal voltage[Vac]	110	220	110	110
Voltage range[V]	90-140	180-260	90-140	90-140
Nominal frequency[Hz]	60	50	60	60
Frequency range[Hz]	55-65	45-55	55-65	55-65
Power factor (@Max. charging power)	>0.99			
DC Input				
Max. car charging input power [W]	120			
Max. solar charging input power [W]	200			
DC input voltage range [V]	10-30			
Max. DC/PV input current [A]	10			
AC Output				
Nominal AC power [W]	600		1000	
Surge power [W]	1800		3000	
Nominal Grid voltage [Vac]	110	220	110	220
Nominal Grid frequency [Hz]	60	50	60	50
Max.AC current [A]	16.4	8.2	27	13.5
Nominal AC current [A]	5.5	2.7	9	4.5
THDv at nominal power	<1.5%			
DC Output				
USB-A (x1)	12.5w, 5V, 2.5A			
QC3.0 (x2)	28w each, (5V, 9V,12V), 2.4A			
USB-TypeC (x2)	100w each, (5V, 9V, 12V, 20V), 5A,			
Car port and DC port totally max output power	120w			
Car port (x1)	120w, 12V, 10A			
Car port (x1)	120w, 12V, 10A			
Other features				
LED light	3w			
LCD	82mm*48mm			
wireless charger	10w			
Parallel output	Optional			
Efficiency				
Battery to AC Max[%]	92.5	93.0	92.5	93
AC to battery Max[%]	92			
Protection	AC output over current; AC output short circuit; AC charging over current; AC output over/under voltage; AC output over/under frequency; inverter over temperature; AC charging over/under voltage; Battery temperature high/low; Battery over/under voltage;			
General Data				
Dimensions (W*H*D) [mm]	340*272*198			
Weight [Kg]	8.8		10.8	
Cooling concept	Forced air cooling			
Operation temperature range [°C]	0~45°C (charging) , -20~60°C (discharging) 0-95,			
Operation relative humidity [RH(%)]	Non condensation			
Ingress protection	IP20			
Noise [dB]	<65dB			
	WiFi			
Model	Singo600		Singo1000	

Portable power station



FEATURES


-  100W high power PD output
-  LPF battery built inside to guarantee safety
-  DC/PV input with MPPT function to charge the battery
-  High power factor portable inverter with pure sine wave output
-  Bi-directional inverter that supports AC fast charging within 99min to full capacity.


S3 series: the world's first intelligent Circuit breaker



FEATURES

The S3 series of intelligent circuit breaker are based on artificial intelligence, Internet of Things and basic electrical technology. S3 committed to making electricity safer, smarter and more energy efficient

 **Abnormal alarm** : 0.005s Power trip

 **Monitor electrical data**: such as voltage, current, power

 **BDA**:Scientific electricity analysis and suggestions

 **Remote control**: power trip,power transmission and timing switch

Basic Parameters

Rated voltage Ue	1P /2P: AC230V 3P/4P : 400V
Rated insulation voltage Ui	500V
Rated impulse withstand voltage Uimp	4kV
Rated current In	6A,10A,16A,20A,25A,32A,40A,50A,63A,80A
Rated short circuit current Icn	AC:10000A
Rated operating short-circuit current Ics	AC:7500A
Number of poles	AC:1P/2P/3P/4P
Instantaneous trip type	AC:C &D
Wiring terminal	Tunnel terminal,M5
Electrical cycles	10000
Mechanical cycles	20000
Working temperature	-10°C-60°C
Storage temperature	-25°C-70°C
Housing self-extinguishing class	V0
Communication	TTL