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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.

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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	CURRENT PATENTS	RESEARCH AND DEVELOPMENT
100%	100+	20000+
AND INCREASING	PROJECTS	HOURS

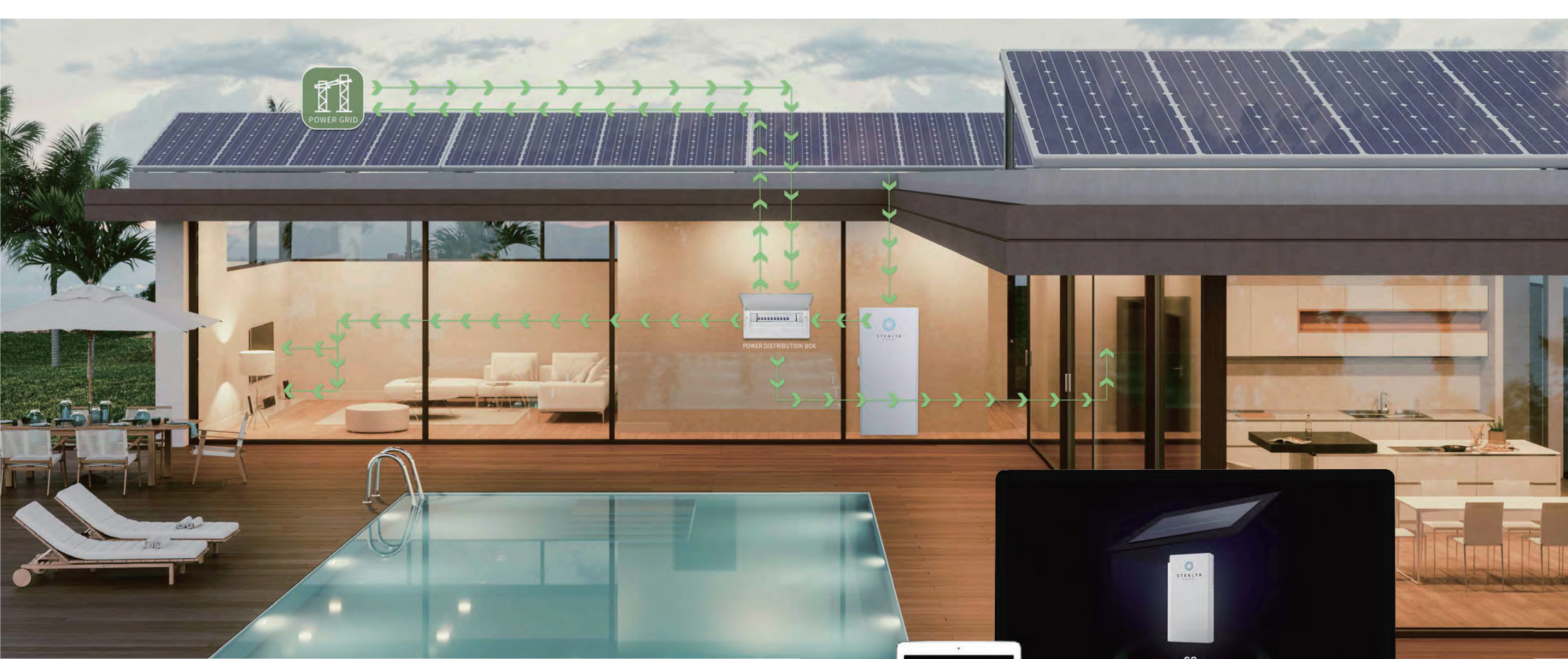
one-stop solutions for every step you make

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 .

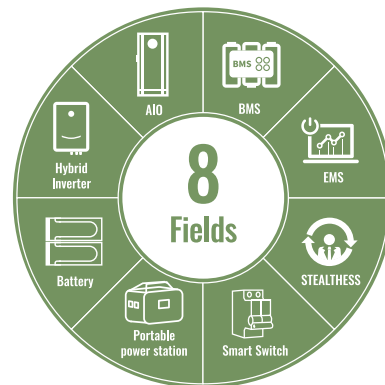


Stealth Smart Home Energy Ecosystem

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 Stealthness 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 StealthESS 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



STEALTH ENERGY
THE AFFORDABLE ENERGY THAT STANDS BY YOU

Product parameters

Input(DC)	5kW	3kW	
MAX PV power [wp]	6600	4000	
MAX DC input voltage [V]	550	550	
Rated DC voltage [V]	380	380	
MAX INPUT Current [A]	13/13	13/13	
Max Short Current [A]	16/16	16/16	
Max. Short Circuit Current [A]	70-550	70-550	
Start-up voltage [V]	100	100	
Number of MPPTs/ Number of Strings per MPPT	2(1/1)	2(1/1)	
Input (AC)			
MAX AC Power [VA]	9600	5750	
MAX AC Current [A]	41.7	25	
Rated grid voltage [v]	220/230/240(180-270)	220/230/240(180-270)	
Rated grid frequency [Hz]	50/60	50/60	
Output (AC)			
Rated output power [VA]	5000	3000	
MAX AC power [VA]	5000	3000	
Rated grid voltage [v]	220/230/240(180-270)	220/230/240(180-270)	
Rated grid frequency [Hz]	50/60	50/60	
Rated AC Current [A]	21.7	13.1	
MAX AC Current [A]	21.7	13.1	
Power Factor	0.8 leading-0.8 lagging	0.8 leading-0.8 lagging	
THDI[%]	<2	<2	
EPS Output (with battery)			
EPS Rated Max. Continuous Power [VA]	5000	3000	
EPS Rated voltage [V], 频率 [Hz]	230, 50/60	230, 50/60	
EPS MAX continuous current [A]	26	12.6	
EPS peak power rating [VA]	6000	3600	
Transfer Time [ms]	<200	<200	
THDI [%]	<2	<2	
Efficiency		Battery	
PV Max. efficiency	97.60%	Battery voltage range [V]	85-400
PV Europe Efficiency	97.00%	Max. Continuous Charge/Discharge Current [A]	25
PV Max. MPPT efficiency	99.00%	Communication	CAN/ RS485
Max. Charging efficiency (PV to BAT)	98.20%	Electronic protection	YES
Max. Charging Efficiency (Grid to BAT)	97.40%		
Max. Discharging Efficiency (BAT to Grid)	97.50%		
Protection		Standard and Certification	
Over-voltage protection/Low-voltage protection	YES	Safety	IEC62109-1/-2
Ground fault monitoring	YES	EMC	EN 61000-6-1/ EN 61000-6-2/ EN 61000-6-3
Grid monitoring	YES	Grid Regulation	VDE-AR-N 4105 / AS4777 / EN50549-1 / CEI 0-21
Environmental Limit		General Data	
IP Protection	IP65	Dimensions (W*H*D) [mm]	411*505*192
Operating Temperature Range [°C]	-20~60 (derating +45)	Weight [kg]	18
Altitude (m) [m]	<2000	Cooling Method	Natural Convection
Humidity [%]	0-100 (RH)	Topology	Transformerless
Storage temperature (°C)	-20~+60	Communication	Ethernet/ Meter/ Pocket WiFi (optional) / Pocket LAN (optional) / Pocket GPRS (optional) / DRM/ USB/ ISO alarm/ CT
NI [dB]	<30		
Power Consumption		Warranty [year]	5-10
Night Power Consumption [W]	<10		

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

** Under specific test conditions

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]	720	720	720	720
MAX INPUT Current [A]	13/13	13/13	13/13	13/13
Max. Short Circuit Current [A]	16/16	16/16	16/16	16/16
MPPT voltage range [A]	180-950	180-950	180-950	180-950
Start-up voltage [V]	180	180	180	180
Number of MPPTs/ Number of Strings per MPPT	2(1/1)	2(1/1)	2(1/1)	2(1/1)
Input (AC)				
MAX AC power [VA]	15000	15000	12000	10000
MAX AC current [VA]	25	25	20	16.5
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	13.3	10	8.3
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. Continuous 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 continuous current[A]	14.5	12.1	9.1	7.6
Transfer Time [ms]	<100	<100	<100	<100
THDi [%]	<2	<2	<2	<2
Efficiency				
MPPT efficiency[%]	99.9			
European Efficiency[%]	97			
Max. Efficiency[%]	97.8			
Battery charge and discharge efficiency[%]	97.5/96.5			
Protection				
Over-voltage protection/Low-voltage protection	YES			
Ground fault monitoring	YES			
Grid monitoring	YES			
Environmental Limit				
IP Protection	IP65			
Operating Temperature Range [°C]	-20~+60 (derating at +45)			
Altitude (m) [m]	<2000			
Humidity [%]	0-100 (non-condensing)			
Storage temperature (°C)	-20~+60			
NI[dB]	<30			
Power Consumption				
Night Power Consumption [W]	<25 for hot standby, <3 in cold standby			
Battery				
Battery voltage range [V]				160-600
Max. Continuous Charge/Discharge Current [A] [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 / CEI 0-21
General Data				
Dimensions (W*H*D) [mm]				457*654*228
Weight [kg]				28
Cooling Method				Natural
Topology				Non-isolated
Communication				Meter/ Pocket WIFI (optional) / Pocket GPRS (optional) / DRM/ ISO alarm
Warranty [year]				5-10

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

** Under specific test conditions



STEALTH AIO

FEATURES



Easy installation: one person and half hour



Ultra-high power density ratio



Warranty: 10 years or 10000 cycles



Customize capacity as required: 5.5 to 33.2 kWh



Superior interface experience



Ultra safe, durable LiFePo battery technology



Child and pet friendly design

STEALTH ENERGY
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Technical Specifications

Model		ST-AIO-S5.0	
BATTERY			
Battery type	Li-Ion		
Voltage Range[V]	160-350		
Recommended battery voltage[V]	300		
Nominal Energy(kWh)	5.5	8.3	11
DOD	95%		
Max. continuous charge/ discharge current [A]	25		
Communication interfaces	CAN/ RS485		
Reverse connect protection	YES		
Input (DC)		Output (AC)	
Max. PV array power [Wp]	6600	Nominal AC power [VA]	5000
Max. DC voltage [V]	580	Max. apparent AC power [VA]	5000
Nominal DC operating voltage [V]	380	Nominal grid voltage (AC voltage range) [V]	220/230/240(180-270)
Max. input current [A]	12/12	Nominal grid frequency/ range [Hz]	50/60
Max. short circuit current [A]	14/14	Nominal AC current [A]	21.7
MPPT voltage range [V]	70-580	Max. AC current [A]	21.7
Start operating voltage [V]	100	Displacement power factor	0.8 leading to 0.8 lagging
		THDi, rated power [%]	<2
Input (AC)		EPS Output (WITH BATTERY)	
Max. apparent AC power [VA]	10000	EPS Max. continuous apparent power [VA]	5000
Max. AC current [A]	43.4	EPS rated voltage [V], Frequency [Hz]	230, 50/60
Nominal grid voltage (AC voltage range) [V]	220/230/240(180-270)	EPS Max. continuous current [A]	26
Nominal grid Frequency/ range [Hz]	50/60	EPS peak apparent power [VA]	6000
		Changeover time [ms]	<200
		THDv, linear Load [%]	<2
Efficiency		Power Consumption	
PV Max. efficiency [%]	97.6	Night Power Consumption [W]	<10
PV Europe Efficiency [%]	97	Protection	
PV Max. MPPT efficiency [%]	99.9	Over-voltage protection/Low-voltage protection	YES
Max. Battery charge efficiency (PV to BAT) [%]	98.2	Ground fault monitoring	YES
Max. Battery charge efficiency (GRID to BAT) [%]	97.4	Grid monitoring	YES
Max. Battery discharge efficiency (BAT to AC) [%]	97.5	Environment Limit	
Standard		Degree of protection (according to IEC60529)	
Safety	IEC62109-1/IEC62109-2/IEC62619	Operating temperature range [°C]	IP65 0-45*
EMC	EN 61000-6-1/ EN 61000-6-2/ EN 61000-6-3	Altitude (m) [m]	<2000
Certification	VDE-AR-N 4105 / AS4777 / EN50549 / CEI 0-21/G100	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)	35±1	66±1	96±1	127±1	157±1
Depth of Discharge	95%				
Charge/ Discharge Current(A)	Recommend	27			
	max	30			
	Peak@15s	33			
Communication Port	RS485, CAN				
Protection Class	indoor/outdoor				
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

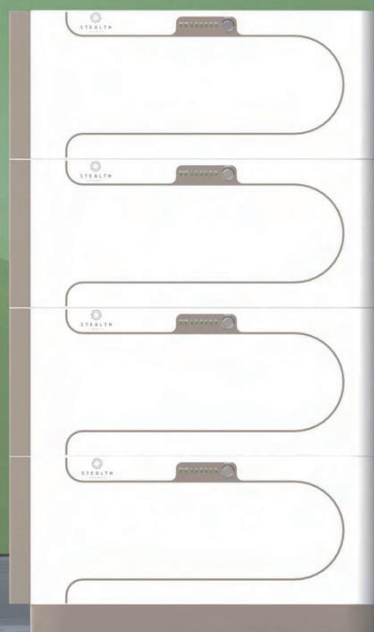
 95% DOD with more usable capacity

 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(LiFePO4)						
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						
Protection Class	IP20						
Working Temperature	0℃~50℃						
Storage Temperature	-20℃~60℃						
Humidity	5%~95%						
Altitude	<2000						
Design Life	10Years (25℃)						
Cycle Life	>6000 (25℃)						
Authentication level	IEC62619/IEC62477/IEC62040/CE/UN38.3						

* When the temperature is below 0℃ or above 40℃, 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			
DC port (x2)	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)			
Operation relative humidity [RH(%)]	0-95, Non condensation			
Ingress protection	IP20			
Noise [dB]	<65dB			
Communication interface	WiFi			
Model	Singo600		Singo1000	

Portable power station



FEATURES





-  100W high power PD output
-  LFP 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 (V) U_e	1P /2P: AC230V 3P/4P : 400V
Rated insulation voltage U_i	500V
Rated impulse withstand voltage U_{imp}	4kV
Rated current I_n	6A,10A,16A,20A,25A,32A,40A,50A,63A,80A
Rated short circuit current I_{cn}	AC:10000A
Rated operating short-circuit current I_{cs}	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
Work Temperature	-10 C-60 C
Storage Temperature	-25 C-70 C
Housing self-extinguishing class	V0
Communication	TTL