

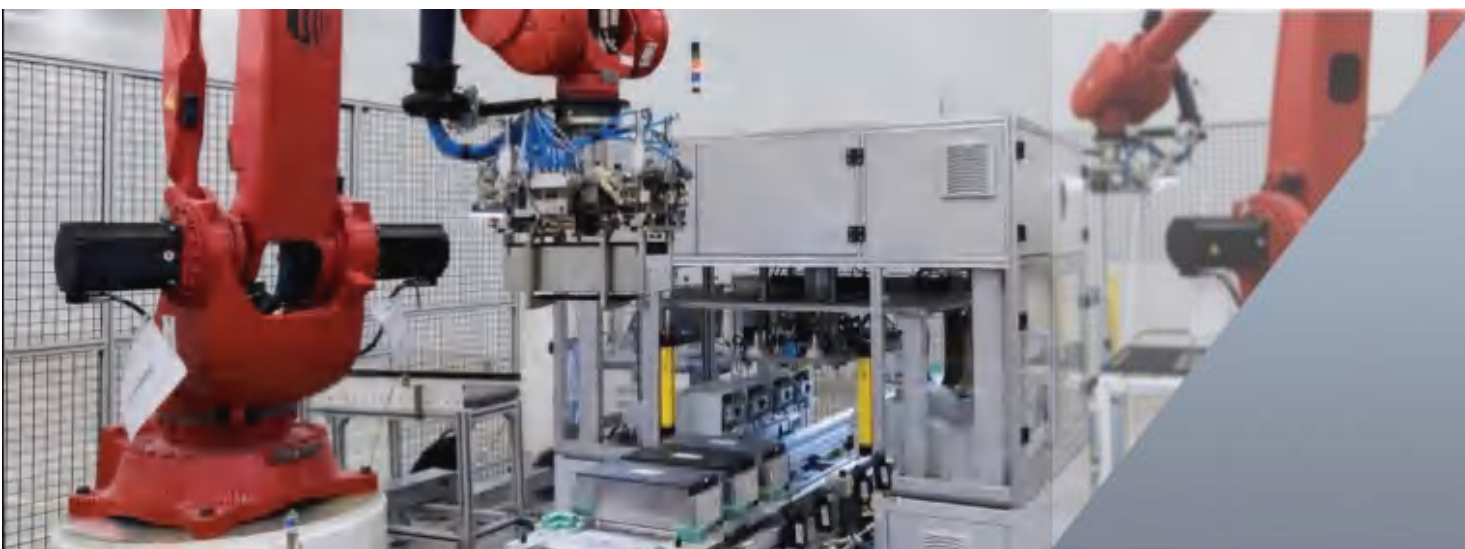
HONGSHENG

energy storage

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Energy Storage System



MAJOR

Family energy storage
Industrial and commercial energy storage
manufacturers

公司简介 COMPANY PROFILE

Guangdong Hongsheng New Energy Co., Ltd. is located in Baiwang Technology Park, Gaoma Town, Dongguan City. It is a group of high-tech enterprises dedicated to the development of new energy products. Solar drying equipment, product exports to many countries and regions in Asia, Europe, the United States, and Africa, have set up direct sales service companies in Australia, Canada, Thailand, the Philippines, Nigeria, South Africa and other places to provide families with local electricity resources to accumulate families Energy storage and commercial energy storage cumulative 100MW power supply

The company has a group of high-quality R & D, design and management teams. In terms of merging and separation of the network optical storage system business, from drawing from drawing to construction construction, it provides comprehensive services. The company adheres to the "professional, focused, quality, service" four The basic concept of item, with the corporate purpose of "development of science and technology", imports ISO9001: 2008 international quality management system to provide customers with safe and reliable product and technical support.

"Cooperation and win-win" all colleagues will create and win a win-win situation with friends from all walks of life on the road of new energy.



Energy storage system
ON-OFF work mode

1 Self -use mode

Photovoltaic power is given priority load, batteries are secondary, and the remaining power is entered into the grid, which increases the spontaneous self -use rate to the greatest extent.

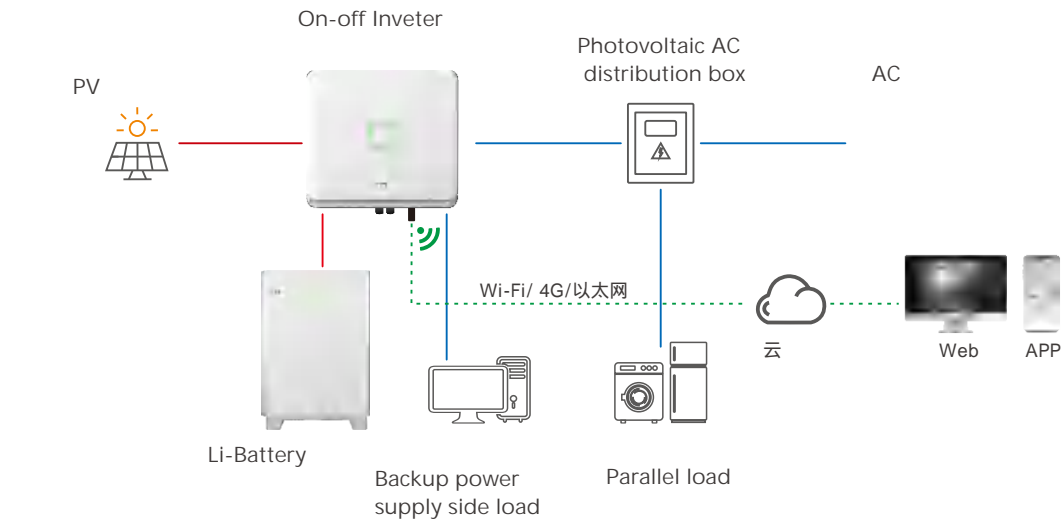
2 Timing mode

According to the local power grid peak valley electricity price settings. The peak electricity price period battery discharge supply load, the battery charging period of the valley value period, improve the economic benefits

3 Spare mode

Set up a battery storage power, the power supply is powered on important loads when the power grid is disconnected to ensure uninterrupted power supply.

Lifting energy system is an optical storage system that integrates metering of photovoltaic and energy storage, which is widely used in photovoltaic power generation online electricity sales areas. This system provides a variety of working models, which is convenient for users to flexibly optimize the power consumption system, strengthen the independence of users, effectively save electricity costs, and ensure stability of electricity consumption.



Energy storage system
OFF work mode

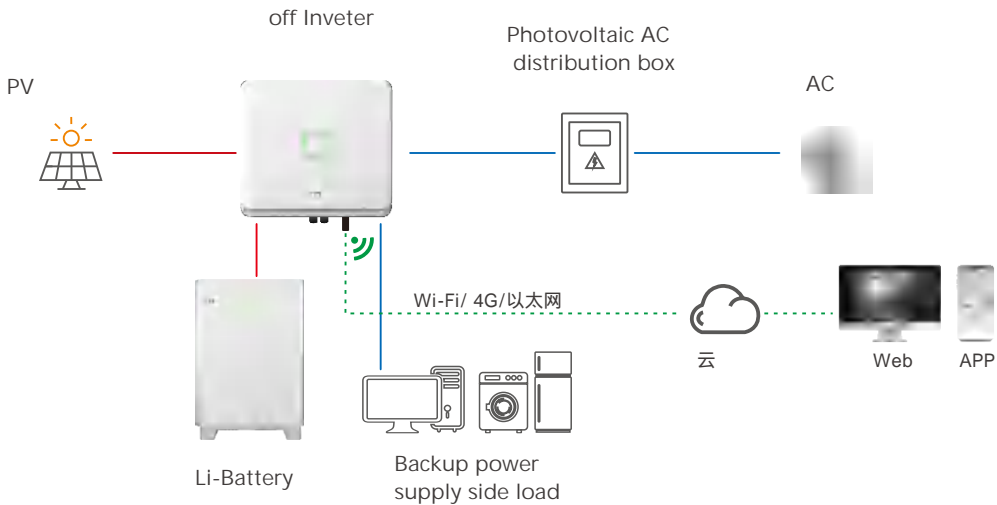
1 Photovoltaic mode

Photovoltaic power can give priority to the load, the battery is secondary, the remaining electricity feed to the energy storage battery box

2 AC mode

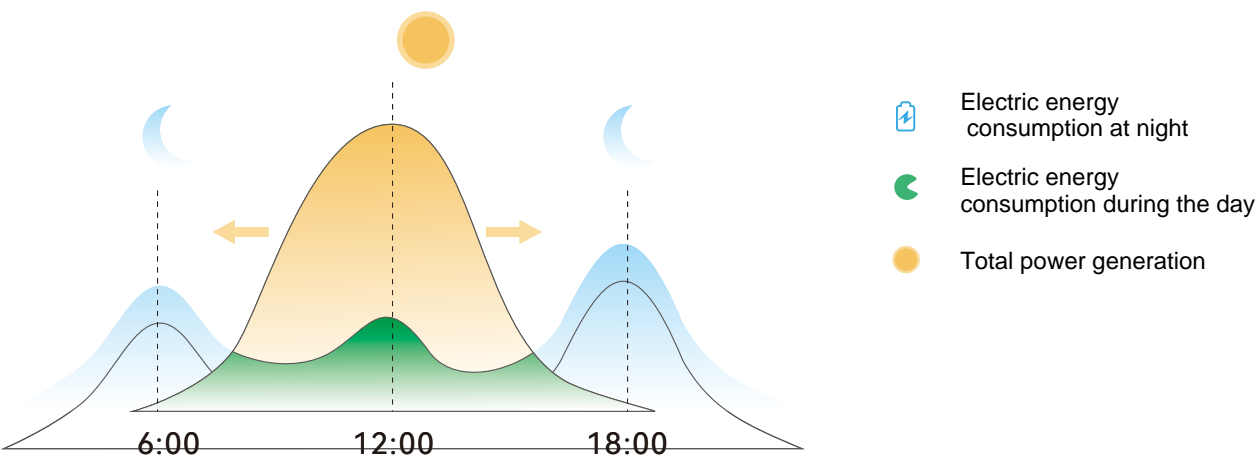
When rainy days or batteries are insufficient, automatically switch to the municipal power charging and municipal power supply power supply mode.

The online energy system is widely suitable for power scarce, unstable power, and powerless areas.



Solar PV storage system lower electricity charges

Users can choose solar energy to directly supply the load during the day according to different loads during the day and night. The excess electricity is stored to the energy storage battery. At night, the load supply is powered.



Reserve power supply is stable and worry-free



The Hongli Energy Storage System supports the UPS function. When the power grid is powered off, the reserve power supply can be seamlessly switched within 10 milliseconds to ensure the stability of the family's electricity.

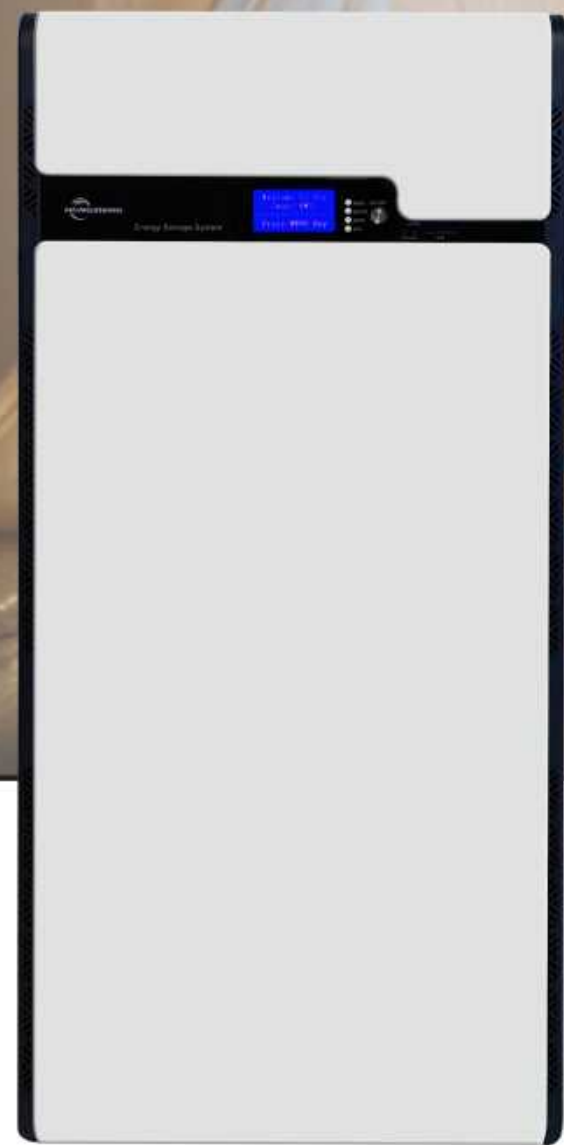
WISDON APP

A intelligent management cloud platform that integrates data collection, remote maintenance and energy management developed by Hongsheng New Energy's autonomous sources



HS series

Wall-mounted lithium battery



5KWh/10KWH
can connect multiple sets of
battery parallel



Remote monitoring
settings



IP21 protection level



Simple installation



Safe and reliable



Life life for more
than 10 years

5KWH /10KWH

型号 Mode	HS16-48100	HS32-48100
电气参数 electrical parameter		
总容量 total capacity [kWh]	5.12	10.24
可用容量 available capacity [kWh]	4.6	9.2
额定电压 rated voltage [V]	51.2	
电压范围 voltage range [V]	42~58.4	
放电深度 Depth of discharge [DOD]	≤ 90%	
最大充电电流 maximum charging current [A]	100	
最大放电电流 maximum discharge current [A]	100	
单体电芯 Single battery parameter [V/A]	3.2/102	
通用参数 Universal parameter		
电池类型 cell Type	LEP	
通讯方式 communication protocd	CAN	
工作温度范围 woking temperatue	0℃~50℃	
散热方式 coding method	Natural cooling	
工作环境湿度 Reiative humidity	0-95%	
防护等级 IP Grade	IP21	
外形尺寸 Dimensions [H*W*D][mm]	680*160*450	1010*160*500
净重Weight [kg]	48	92
使用年限 Design Life [year]	10	
认证 Certificate	UN38.3, IEC 62619	

Rated Energy": Test conditions, 100% DOD, 0.5C charge & discharge at +25±3
Available Energy': Test conditions, 90% DOD,0.5C charge & discharge at+25±3 ℃ .
Max Charge/Discharge Current'/Rated Power': Max Charge/Discharge and power
deratingwill occur related to Tempertature and SOC.





HD series

Floor lithium battery



15KWH
can connect multiple sets of
battery parallel



Remote monitoring
settings



IP21 protection level



Simple installation



Safe and reliable



Life life for more
than 10 years

15KWH

型号 Mode	HD15KWH
电气参数 electrical parameter	
总容量 total capacity [kWh]	1536
可用容量 available capacity [kWh]	13.5
额定电压 rated voltage [V]	51.2
电压范围 voltage range [V]	42~58.4
放电深度 Depth of discharge [DOD]	≤ 90%
最大充电电流 maximum charging current [A]	100
最大放电电流 maximum discharge current [A]	200
单体电芯 Single battery parameter	3.2/102
通用参数 Universal parameter	
电池类型 cell Type	LEP
通讯方式 communication protocd	CAN
工作温度范围 woking temperatue	0°C~50°C
散热方式 coding method	Natural cooling
工作环境湿度 Reiative humidity	0-95%
防护等级 IP Grade	IP21
外形尺寸 Dimensions [H*W*D][mm]	935*235*500
净重Weight [kg]	135
使用年限 Design Life [year]	5
认证 Certificate	UN38.3, IEC 62619

Rated Energy": Test conditions, 100% DOD, 0.5C charge & discharge at +25±3
Available Energy': Test conditions, 90% DOD,0.5C charge & discharge at+25±3 °C .
Max Charge/Discharge Current'/Rated Power': Max Charge/Discharge and power
deratingwill occur related to Tempertature and SOC.



SD

series

Stacking all -in -one



5KW/10KWH

5KW/15KWH



Landing



Remote software
upgrade



Modular design,
Maximum expansion 25.0kWh
Suitable for the scene that is
used during the day and night

IP25 IP25 balcony design

LFP

Lithium iron phosphate
battery, safe and reliable

90%

90%discharge depth

5KW/10KWH 5KW/15KWH

型号 Mode	SD5KW/10KWH	SD5KW/15KWH
电池模组 Battery module	5.12KWH	
模组数量 Number of modules	2	3
总容量 total capacity [kWh]	10.0	15.0
可用容量 available capacity [kWh]	9.0	13.5
额定电压 rated voltage [V]	51.2	51.2
电压范围 voltage range [V]	42-58.4	42-58.4
最大充电电流 maximum charging current [A]	50	50
最大放电电流 maximum discharge current [A]	100	100
逆变器		
额定功率 [kW]	5	
交流额定输出输入电压 [V]	220	
交流工作工作电压 [V]	220-240	
PV输入电压 [V]	120-450	
PV输入功率 [KW]	6	
通用参数 Universal parameter		
电池类型参数 cell Type	LEP3.2/102	
防护等级 IP Grade	IP25	
安装方式 Installation method	Floor lithium battery	
工作温度范围 woking temperatue	0-95%	
工作环境湿度 Reiative humidity	IN: 0-50°C;OUT: -10-50°C	
散热方式 coding method	Natural cooling	
通讯方式 communication protocd	CAN	
使用年限 Design Life [year]	CELLS1 0 INVETER 5	
认证 Certificate	IEC62619(Cell&Pack)/ CEC/ CE/ ROHS/ UN38.3	
外形尺寸 Dimensions [H*W*D][mm]	550*450*700	710*450*700
净重Weight [kg]	130	175



UPS

series

Capable energy storage machine



UPS3KW/5KWH



UPS

Switch time is less than
<10 ms

90%

discharge depth



Anti -countercurrent

IP25

IP25 balcony design

LFP

Lithium iron phosphate
battery, safe and reliable



Free installation

UPS3KW/5KWH

型号 Mode	UPS3KW/5KWH
电池模组 Battery module	5.12KWH
模组数量 Number of modules	1
总容量 total capacity [kWh]	5.12.0
可用容量 available capacity [kWh]	4.6
额定电压 rated voltage [V]	25.6
电压范围 voltage range [V]	21-28.5
最大充电电流 maximum charging current [A]	50
最大放电电流 maximum discharge current [A]	100
逆变器	
额定功率 [kW]	3
交流额定输出输入电压 [V]	220
交流工作工作电压 [V]	220-240
PV输入电压 [V]	120-450
PV输入功率 [kW]	3.5
通用参数 Universal parameter	
电池类型参数 cell Type	LEP3.2/102
防护等级 IP Grade	IP21
安装方式Installation method	Be available
工作温度范围 woking temperatue	0-95%
工作环境湿度 Reiative humidity	IN: 0-50°C; OUT: -10-50°C
散热方式 coding method	Natural cooling
通讯方式 communication protocd	CAN
使用年限 Design Life [year]	CELLS1 0 INNETER 5
认证 Certificate	IEC62619(Cell&Pack)/ CEC/ CE/ ROHS/ UN38.3
外形尺寸 Dimensions [H*W*D][mm]	480*280*680
净重Weight [kg]	65





LFP 20-50KW / HV

LiFePO4 51.2V 100Ah/PC

Features



Safe & Reliable
High safety LiFePO₄ battery.
Compliance with IEC62619, UN38.3, CE, .



Modular
Support up to 16 units in parallel, scale from 20kWh to 80 kWh configuration without external controller.



Ultra performance
More than 5000 cycles, self-developed BMS/Cell/Pack to ensure best quality.



Compact & Flexible
5U(160mm) standard height design.
Optional bracket kits for different installation senarios.



Compatibility
Compatible with most hybrid/battery inverter in self-consumption, back-up and off-grid applications.



Intellegence
Strong pre-charge and balancing capability.
Remote data history & firmware upgrading function via T-smart Cloud platform. (Pending)

Parameters

Items	HSHV-20KWh	HSHV-30KWH	HSHV-40KWH	HSHV-50KWH
Nominal voltage	204V	307V	409.6V	512V
Battery Module*pcs	51.2v100Ah*4	51.2v100Ah*6	51.2v100Ah*8	51.2v100Ah*10
Nominal energy	20.48kWh	30.72kWh	40.96kWh	51.2kWh
Usable energy	18.43kWh	27.64kWh	36.86kWh	46.08kWh
Max. voltage range	179V~233V	269v~350V	358v~466V	449v~583V
Recommend charge current	100A			
Max. charge current	200A			
Recommend discharge current	200A			
Discharge rate	0.5C/1C			
Peak discharge current	100~200A@3mins 250~400A@2S			
IP rating	IP20			
Cycle life	≥5000cycles			
Net weight	~230kg	~330kg	~430kg	~530kg
Dimension(W*H*D)	450*700*940	450*700*1260	450*700*1380	450*700*1740
Cell type	Lithium-iron phosphate (LiFePO			
Design life	15 years			
Charging Temperature	0~65℃			
Discharging Temperature	-20~65℃			
Relative humidity	5%~90%, No condensation			
Install altitude	≤3000m			
Install location	Indoor			
Installation	Stack/ Rack mounted			
Certification	IEC62619 / UN38.3 / CE / CEC			
Communication	RS485 /CAN			

[1] Test conditions: 90% depth of discharge (DOD), 0.2C rate charge & discharge at 25℃.
[2] System Usable Energy may vary different inverter brand.
[3] Derating occurs when the operating temperature from -10℃ to 10℃ & 40℃ to 50℃.





LFP 60-90KW / HV

LiFePO4 51.2V 300Ah/PC

Features

- Safe & Reliable**

High safety LiFePO₄ battery.
Compliance with IEC62619, UN38.3, CE, .
- Modular**

Support up to 32 units in parallel, scale from 60kWh to 100 kWh configuration without external controller.
- Ultra performance**

More than 5000 cycles, self-developed BMS/Cell/Pack to ensure best quality.

- Compact & Flexible**

5U(222mm) standard height design.
Optional bracket kits for different installation senarios.
- Compatibility**

Compatible with most hybrid/battery inverter in self-consumption, back-up and off-grid applications.
- Intellegence**

Strong pre-charge and balancing capability.
Remote data history & firmware upgrading function via T-smart Cloud platform. (Pending)

Parameters

Items	HSHV-60KWh	HSHV-75KWH	HSHV-90KWH	HSHV-105KWH
Nominal voltage	204V	256V	307V	358V
Battery Module*pcs	51.2v300Ah*4	51.2v300Ah*5	51.2v300Ah*6	51.2v300Ah*7
Nominal energy	61.4kWh	76.8kWh	92.16kWh	107.5kWh
Usable energy	55.26kWh	69.12kWh	82.94kWh	96.75kWh
Max. voltage range	179V~233V	224v~292V	269v~350V	226v~408V
Recommend charge current	100A			
Max. charge current	200A			
Recommend discharge current	200A			
Discharge rate	0.5C			
Peak discharge current	100~200A@3mins 250~400A@2S			
IP rating	IP20			
Cycle life	≥5000cycles			
Net weight	~530kg	~660kg	~790kg	~920kg
Dimension(W*H*D)	442*720*1300	442*720*1500	442*720*1700	442*720*1900
Cell type	Lithium-iron phosphate (LiFePO			
Design life	15 years			
Charging Temperature	0~65℃			
Discharging Temperature	-20~65℃			
Relative humidity	5%~90%, No condensation			
Install altitude	≤3000m			
Install location	Indoor			
Installation	Stack/ Rack mounted			
Certification	IEC62619 / UN38.3 / CE / CEC			
Communication	RS485 /CAN			

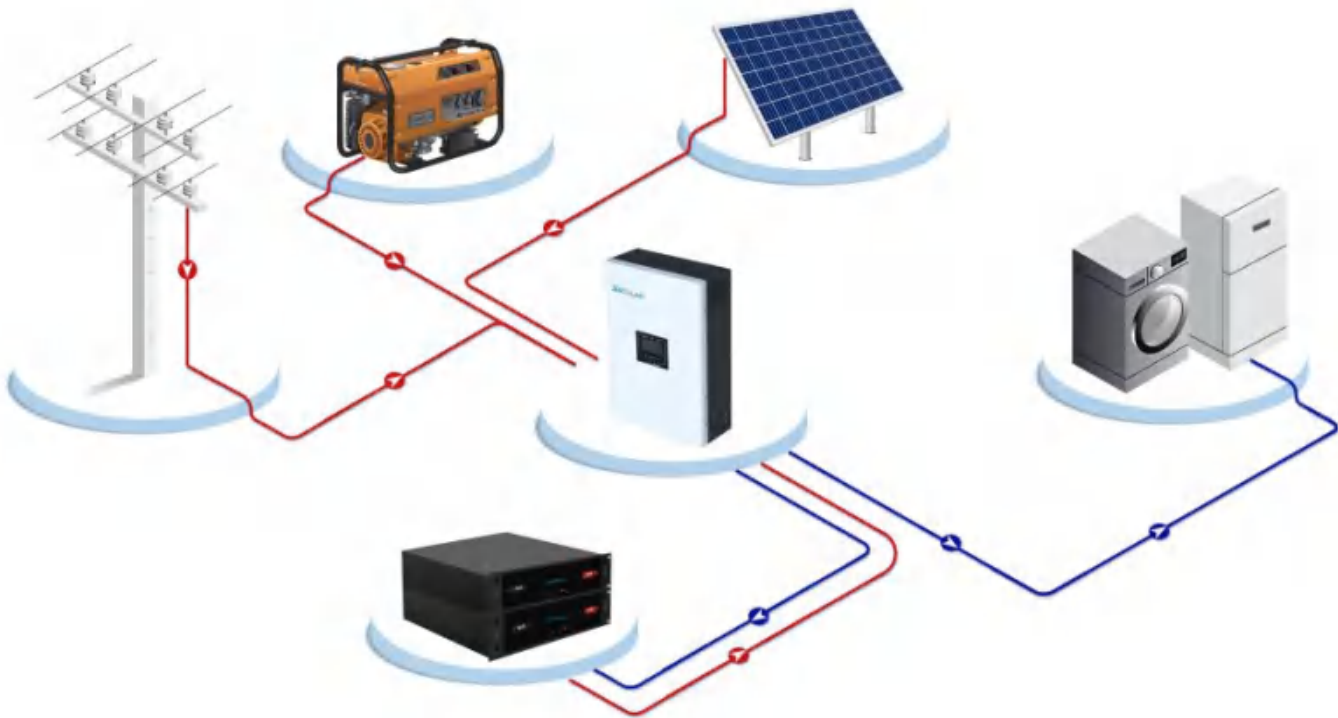
[1] Test conditions: 90% depth of discharge (DOD), 0.2C rate charge & discharge at 25℃.
[2] System Usable Energy may vary different inverter brand.
[3] Derating occurs when the operating temperature from -10℃ to 10℃ & 40℃ to 50℃.



High Frequency Off-Grid Solar Inverter

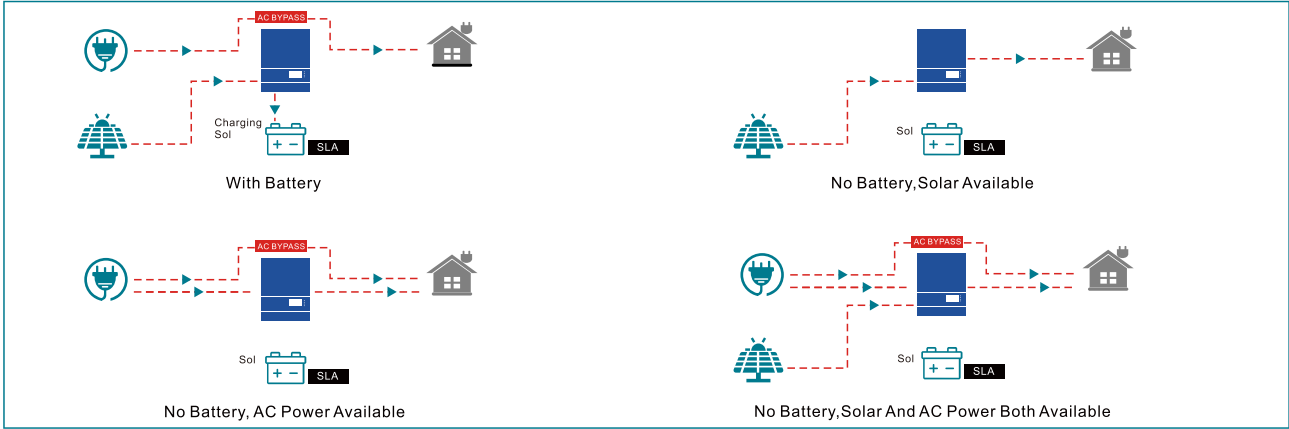
MAIN FEATURES

- ▶ Rated power 5KW,power factor 1.0
- ▶ Built-in MPPT,MPPT voltage range 120~430Vdc
- ▶ Pure sine wave AC output
- ▶ Solar and utility joint to power the loads
- ▶ Able to work with or without battery
- ▶ Parallel operation up to 6 units
- ▶ WiFi/GPRS remote monitoring
- ▶ CAN/RS485 communication for BMS



SPECIFICATION

Model	Sunforce-BP 5000
Rated Power	5000VA / 5000W
System DC Voltage	48VDC
Parallel Option	Yes,up to 6 units
Monitoring Option	WiFi or GPRS
Inverter Output	
AC Voltage	220V-230V-240VAC
Surge Power	10000VA
Peak Efficiency	93%
Transfer Time	10ms(For Personal Computers) 20ms(For Home Appliances)
Waveform	Pure Sine Wave
Solar Charger & AC Charger	
Max.PV Array Open Circuit Voltage	450VDC
Max.PV Array Power	6000W
Operating Voltage MPPT Range	120~430VDC
Battery Overcharge Protection	60VDC
Max.Solar Charge Current	100A
Max.AC Charge Current	80A
Max.Charge Current	100A
Max PV Input Current	22A
Protection	Overload, Short circuit, Overcurrent,Overvoltage, Undervoltage, Over-Frequency, Under-Frequency, Overheat, Lightning, Surge Power
Physical	
Dimension	470*320*135mm
Net Weight	12kg
Communication Interface	USB/CAN/RS485
Environment	
Humidity	5% to 95% Relative Humidity(Non-condensing)
Operating Temperature	0℃~55℃
Storage	-15℃~60℃



05KL1D Off-grid inverter



KEY STRENGTHS

- Support AC and DC power activation.
- Adopt LCD display, more convenient operation.
- Supports 6 pcs in parallel, and it can be extended to 30kW.
- Max. 1.5x DC overmatching.
- Optional WIFI or GPRS for remote monitoring.
- Support three-phase function.

PV string input	
Model	05KL1D
Max. input power (kW)	7.5
No. of MPPT trackers	1
No. of strings per MPPT trackers	1
Starting voltage (V)	100
Max. input voltage (V)	450
MPPT voltage range (V)	100~430
Max. input current per MPPT (A)	32
Max. short-circuit current per MPPT (A)	37

Battery	
Rated voltage (V)	48
Battery voltage range (V)	40~56
Max. input/output current (A)	100/100
Battery type	Lithium /Lead-acid
Battery communication	CAN

Grid input	
Rated voltage (V)	230
Input voltage range (V)	176~270
Rated grid frequency (Hz)	50/60
Max. charging current (A)	21.7
THDi	<3%
Grid type	L+N+PE

Generator input	
Max. input power (kW)	5
Max. input current (A)	21.7

Off-grid output	
Rated output power (kW)	5
Rated output voltage (Vac)	230
Max. output current (A)	26.1
Rated output frequency (Hz)	50/60
Voltage waveform	Pure sine wave
THDu	<2%
Power factor	1 (0.8 leading-0.8 lagging)
Automatic switching time (ms)	<10
Overload capacity	110%, 60S/ 120%, 30S/ 150%, 10S
Parallel capability	6 pcs in parallel

Protection	
PV input reverse protection	Yes
Antislanding protection	Yes
Insulation resistance test	Yes
AC overcurrent protection	Yes
AC short circuit protection	Yes
AC overvoltage protection	Yes
AC undervoltage protection	Yes
DC/AC surge protection	Yes

General data	
Max. inverter efficiency	94%
MPPT efficiency	99%
Operating temperature (°C)	-25°C ~60°C
Relative humidity	5%-95%
Operating altitude (m)	<2,000 (>2,000 Derating)
Protection class	IP65
Weights (kg)	17
Dimensions W*D*H (mm)	467*454*200
Cooling	Natural
Noise emission (dB)	<35
Display	LCD
Communication interface	RS485 / WIFI (GPRS) / CAN / DRM / Dry-contact
Self-consumption at night (W)	<15
Contamination level	II
Topological	Non-isolated

Three-phase hybrid inverter



KEY STRENGTHS

- Support BMS (non-standard) remote upgrade.
- Compatible with single-phase and three-phase loads.
- Support full power discharge, automatic battery charge and discharge management.
- Capable of Supporting 100% Unbalanced Loads

PV string input					
Model	R6KH3	R8KH3	R10KH3	R12KH3	R15KH3
Max.PV input power (kW)	9	12	15	18	22.5
Max. PV voltage (V)	1,000				
MPPT voltage range (V)	180~850				
Full power MPPT voltage range (V)	250~850	330~850	430~850	510~850	620~850
Min. input voltage/start-up voltage (V)	125/180				
Max. input current per MPPT (A)	13/13				
Max. short-circuit current (A)	16/16				25/25
No. of MPPT trackers	2				
No. of strings per MPPT trackers	1/1				2/2
Rated PV input voltage (V)	700				

AC Output					
Nominal output power to grid (kVA)	6	8	10	12	15
Max. apparent power to grid (kVA)	6.6	8.8	11	13.2	16.5
Max. apparent power from grid (kVA)	13.2	17.6	22	26.4	33
Max. apparent current from grid (A)	19.1	25.5	31.8	38.2	47.6
Nominal output current to grid (A)	8.7	11.5	14.4	17.3	21.7
Max.output current to grid (A)	9.5	12.7	15.9	19.1	23.8
Nominal grid voltage (V)	380/400, 3W+N+PE				
Nominal grid frequency (Hz)	50/60				
THDi	< 3%				

Battery					
Max.charging /discharging power (kW)	6.6	8.8	11	13.2	16.5
Battery voltage range (V)	125~600				
Battery optimal operating voltage range (V)	150~550				
Max.charging /discharging current (A)	50				
Rated.charging /discharging current (A)	40				
Battery type	Lithium /Lead acid				
Communication interface	CAN				

EPS output					
Nominal output power (kVA)	6	8	10	12	15
Max. apparent power (kVA)	6.6	8.8	11	13.2	16.5
Nominal output current (A)	8.7	11.5	14.4	17.3	21.7
Max.output current (A)	9.5	12.7	15.9	19.1	23.8
Nominal output voltage (V)	400 ,3W+N+PE				
Nominal output frequency (Hz)	50/60				
THDu	< 2%				
Max.efficiency	97.9%	97.9%	98.2%	98.2%	98.5%
Europe efficiency	97.2%	97.2%	97.5%	97.5%	97.6%
MPPT efficiency	≥ 99.5%				
Max.battery charge/discharge efficiency	97.5%	97.5%	97.5%	97.6%	97.8%

General Data	
Ingress protection	IP65
Operating temperature range (°C)	-25~60
Relative humidity	0~95%
Operating altitude (m)	2,000 (>2,000 Derating)
Dimensions W*H*D (mm)	566*596*220
Net weight (kg)	32
Self-consumption at night (W)	< 15
Cooling	Natural
Noise emission (dB)	≤35
EMC	IEC/EN 61000-6-1:2019, IEC/EN 61000-6-2:2019, IEC/EN 61000-6-3:2021, IEN/EN 61000-6-4:2019, IEC/EN 61000-3-2:2019/A1:2021, EN 61000-3-3:2013/A2:2021, IEC/EN 61000-3-11:2019, EN 61000-3-12:2011
On-grid Standards	Europe: EN 50549-1:2019/AC:2019, Poland:EN50549-1:2019/Rfg:2016/NC Rfg:2018/PTPIREE:2021, Germany:VDE-AR-N 4105:2018 /DIN VDE V 0124-100(VDE V 0124-100):2020, South Africa: NRS 097-2-1:2017 Edition 2.1, UK:G98/G99/1-6:2022, Spain:UNE217001:2020 /UNE217002:2020/NTS V2.1:2021-07, IEC61727:2004/IEC62116:2014/IEC61683:1999, Hungary:EN50549-1:2019/RFG:2016/ Hungary, Italy CEI0-21
Safety standard	IEC/EN62109-1:2010, IEC/EN62109-2:2011

Display and communication	
HMI	LCD; APP
BMS	CAN
EMS/Meter	RS485/RS485
Supported communication interface	WIFI / GPRS



HF series

Commercial high -frequency inverter energy storage all -in -one machine

HSES50-100

High -frequency energy storage all -in -one machine is suitable for large houses or small industrial and commercial scenarios. Support 150%photovoltaic super -equipped, which can realize the load supply and battery charging at the same time, effectively reduce the demand for additional power grids, and strengthen green energy independence; use high -performance, safe and reliable industrial and commercial 280AH iron phosphate batteries, support 0.5C charging; support Self -use, time -sharing electricity prices, and electricity sp; and meet daily use scenarios; the integrated dry connection point of the inverter can flexibly control external loads such as heat pumps to optimize energy consumption; Scenes that are unstable or power grid without power grids such as power grids and island.

50KW/100KWH

型号	HFES50-100
PV直流输入	
最大输入功率 [Wp]@STC	100000
最大输入电压 [V]	1000
MPPT电压范围 [V]	180 ~ 850
额定输入电压 [V]	600
启动电压 [V]	200
最大输入电流 [A]	6*45
最大短路电流 [A]	6*56.5
每路MPPT输入路数	2
电池参数	
电池类型	磷酸铁锂
额定能量 [kWh]	100
电压范围 [V]	179.2~403.2
最大充电/放电电流 [A]	140
交流输出 [电网侧]	
额定输出功率 [W]	50000
最大输出功率 [VA]	55000
额定输出电流 [A]	72.5
最大输出电流 [A]	79.8
额定电压 [V]	3+N+PE/ 3+PE, 380/ 400
额定频率/范围 [Hz]	50,60/45 ~ 55,55 ~ 65
功率因数 [cos φ]	0i - 1 - 0c
总谐波失真 [THDi]	<3%
交流输入 [电网侧]	
额定电压 [V]	3+N+PE/ 3+PE, 380/ 400
额定频率/范围 [Hz]	50,60
最大输入电流 [A]	150
交流输出 [离网侧]	
最大输出功率 [VA]	55000
峰值输出功率 [VA]	75000,5s
额定电压 [V]	3+N+PE/ 3+PE,380/ 400
额定频率/范围 [Hz]	50,60/45 ~ 55,55 ~ 65
总谐波失真 [THDv]	<3%
交流输入 [发电机侧]	
最大输入功率 [W]	50000
最大输入电流 [A]@230V	72.5
额定电压 [V]	3+N+PE/ 3+PE,380/ 400
额定频率/范围 [Hz]	50,60/45 ~ 55,55 ~ 65
效率	
最大效率	98.6%
电池最大充电/放电效率	96.0%
保护	
PV反极性保护	集成
防孤岛保护	集成
交流过流保护	集成
交流短路保护	集成
交流过压保护	集成
直流开关	集成
直流防雷保护	II
交流防雷保护	II
常规参数	
通讯方式	Wi-Fi/以太网/CAN/RS485
拓扑	无变压器
工作温度范围	-30℃ ~ +50℃ (45℃ ~ 50℃ 降额运行)
散热方式	空调
工作环境湿度	5~95%(无凝露)
最高工作海拔	2000
防护等级	IP55, IP66(逆变器)
外形尺寸 [H*W*D] [mm]	1980*988*1065
重量 [kg]	1350
质保 [年]	5
认证	UN38.3, IEC 62619

SF

系列

工商业工频逆变储能一体机



SFES50-100

Work frequency energy storage all -in -one machine is suitable for hotels, hospitals, workshops, and factory scenarios. It can be independent as a reserve power supply to supply power supply to effectively reduce the demand for additional power grids, and strengthen green energy independence; use high -performance, safe and reliable industrial and commercial 280Ah lithium iron phosphate batteries to support 0.5C charging and discharge; , Sports such as island and other power grids that are unstable or frequent power outages. The configuration isolation transformer has a good impact and security protection for the sensory load.

50KW/100KWH

型号	SFES50-100
PV直流输入	
最大输入功率 [Wp]@STC	50000
最大输入电压 [V]	1000
MPPT电压范围 [V]	180 ~ 850
额定输入电压 [V]	600
启动电压 [V]	200
最大输入电流 [A]	6*45
最大短路电流 [A]	6*56.5
每路MPPT输入路数	1
电池参数	
电池类型	磷酸铁锂
额定能量 [kWh]	100
电压范围 [V]	179.2~403.2
最大充电/放电电流 [A]	140
交流输出【电网侧】	
额定输出功率 [W]	50000
最大输出功率 [VA]	55000
额定输出电流 [A]	72.5
最大输出电流 [A]	79.8
额定电压 [V]	3+N+PE/ 3+PE, 380/ 400
额定频率/范围 [Hz]	50,60/45 ~ 55,55 ~ 65
功率因数 [cos φ]	0i - 1 - 0c
总谐波失真 [THDi]	<3%
交流输入【电网侧】	
额定电压 [V]	3+N+PE/ 3+PE, 380/ 400
额定频率/范围 [Hz]	50,60
最大输入电流 [A]	150
交流输出【离网侧】	
最大输出功率 [VA]	55000
峰值输出功率 [VA]	75000,5s
额定电压 [V]	3+N+PE/ 3+PE,380/ 400
额定频率/范围 [Hz]	50,60/45 ~ 55,55 ~ 65
总谐波失真 [THDv]	<3%
交流输入【发电机侧】	
最大输入功率 [W]	50000
最大输入电流 [A]	72.5
额定电压 [V]	3+N+PE/ 3+PE,380/ 400
额定频率/范围 [Hz]	50,60
效率	
最大效率	98.6%
电池最大充电/放电效率	96.0%
保护	
PV反极性保护	集成
防孤岛保护	集成
交流过流保护	集成
交流短路保护	集成
交流过压保护	集成
直流开关	集成
直流防雷保护	II
交流防雷保护	II
常规参数	
通讯方式	Wi-Fi/以太网/CAN/RS485
拓扑	隔离变压器
工作温度范围	-30℃ ~ +50℃ (45℃ ~ 50℃ 降额运行)
散热方式	空调
工作环境湿度	5~95%(无凝露)
最高工作海拔	2000
防护等级	IP55, IP66)
外形尺寸 [H*W*D] [mm]	2270*1421*1780
重量 [kg]	2250
质保 [年]	5
认证	UN38.3, IEC 62619