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SUPERPACK®

Best Solution of Battery

Household Energy Storage System

Compact Design, Flexible Use



Lithium Ion Batteries & Power Solution

www.super-pack.com.cn



About Superpack

Superpack specializes in the design and manufacture of lithium-ion battery pack, battery system for a wide range of power and stationary application. Founded by Xupai in 2018, our team has nearly ten years of experience in designing integrated power system for global OEMs. Our broad market, application expertise, technology approach and vertical integration enable us to deliver safe, reliable and innovative product to market quickly.

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Production Facilities

32

Patents

50⁺

Engineers

15,200m²

Floor Area

2GWh

Annual Production Capacity

ROHSCEUN38.3ISO14001ISO45001ISO9001Liability InsuranceDanger GoodsCB

SGSPINGANULCBUN38.3CEETL Intertek



5kW All-in-One Energy Storage System (Stacked Style)

- Solar hybrid inverter + MPPT charging controller + 5kWh 51.2V100Ah LiFePO₄ battery modules are integrated.
- The capacity can be expanded from 1 to 4 modules to 5kWh,10kWh, 15kWh and 20kWh.
- Output single phase pure sine wave AC power, 230V/120V is available, 50Hz/60Hz (automatically detected).
- Suitable for global markets.
- Diverse working modes, which can be used for solar energy storage, on/off-peak hours electricity application, government electricity subsidy.

Item	SP-ESS-5K-5K-A1	SP-ESS-5K-10K-A1	SP-ESS-5K-15K-A1	SP-ESS-5K-20K-A1
BATTERY				
Battery Module Quantity	1pc	2pcs	3pcs	4pcs
Battery Energy	5.12kWh	10.24kWh	15.36kWh	20.48kWh
Battery Capacity	100Ah	200Ah	300Ah	400Ah
Weight	78Kg	127Kg	176Kg	225Kg
Dimensions (LxWxH)	560×480×420mm	560×480×570mm	560×480×720mm	560×480×870mm
Cell Chemistry	LiFePO4			
Battery Rated Voltage	51.2V			
Battery Working Voltage Range	44.8 ~ 57.6V			
Maximum Charging Current	100A			
Maximum Discharging Current	100A			
Designed Life-span	6000 Cycles at 80%DOD			
Parallel Quantity	Maximum 4 Modules			
Designed Life-span	10 Years			
PV CHARGE				
Solar Charge Type	MPPT			
Maximum Output Power	5kW			
PV Charging Current Range	0~80A			
PV Operating Voltage Range	120~500V			
MPPT Voltage Range	120~450V			
AC CHARGE				
Maximum Charge Power	3150W			
AC Charging Current Range	0~60A (230V INVERTER); 0~40A (120V INVERTER)			
Rated Input Voltage	220/230Vac (230V INVERTER); 110/120Vac (120V INVERTER)			
Input Voltage Range	170~280Vac (230V INVERTER); 90~140Vac (120V INVERTER)			
AC OUTPUT				
Rated Output Power	5kW			
Rated Output Current	30A (230V INVERTER); 42A(120V INVERTER)			
Output Voltage Range	220V/230V (230V INVERTER); 110V/120V(120V INVERTER); 50Hz/60Hz (Automatically)			
Overload Current	35A (230V INVERTER); 45A(120V INVERTER)			



5kW All-in-One Energy Storage System (Floor Mounted Style)

- Solar hybrid inverter + MPPT charging controller + 5kWh 51.2V100Ah LiFePO4 battery modules are integrated.
- The capacity can be expanded from 1 to 3 modules to 5kWh,10kWh and 15kWh.
- Output: single phase, pure sine, AC, 230V/120V is available, 50Hz/60Hz (automatically detected).
- Suitable for global markets.
- Diverse working modes, which can be used for solar energy storage, on/off-peak hours electricity application, goverment electricity subsidy.

Item	SP-ESS-5K-5K-A2	SP-ESS-5K-10K-A2	SP-ESS-5K-15K-A2
BATTERY			
Battery Module Quantity	1pc	2pcs	3pcs
Battery Energy	5.12kWh	10.24kWh	15.36kWh
Battery Capacity	100Ah	200Ah	300Ah
Weight	83Kg	135Kg	187Kg
Dimensions (LxWxH)	600×165×920mm	600×165×1340mm	600×165×1760mm
Cell Chemistry	LiFePO4		
Battery Rated Voltage	51.2V		
Battery Working Voltage Range	44.8 ~ 57.6V		
Maximum Charging Current	100A		
Maximum Discharging Current	100A		
Designed Life-span	6000 cycles at 80%DOD		
Parallel Quantity	Maximum 3 Modules		
Designed Life-span	10 Years		
PV CHARGE			
Solar Charge Type	MPPT		
Maximum Output Power	5kW		
PV Charging Current Range	0~80A		
PV Operating Voltage Range	120~500V		
MPPT Voltage Range	120~450V		
AC CHARGE			
Maximum Charge Power	3150W		
AC Charging Current Range	0~60A (230V INVERTER); 0~40A (120V INVERTER)		
Rated Input Voltage	220/230Vac (230V INVERTER); 110/120Vac (120V INVERTER)		
Input Voltage Range	170~280Vac (230V INVERTER); 90~140Vac (120V INVERTER)		
AC OUTPUT			
Rated Output Power	5kW		
Rated Output Current	30A (230V INVERTER); 42A(120V INVERTER)		
Output Voltage Range	220V/230V (230V INVERTER); 110V/120V(120V INVERTER); 50Hz/60Hz (Automatically)		
Overload Current	35A (230V INVERTER); 45A(120V INVERTER)		



5kWh All-in-One Household Energy Storage System

- Built-in: solar inverter + MPPT charging controller + AC charger + LiFePO4 battery pack.
- Output: single phase, pure sine, AC 230V/120V, 50Hz/60Hz (optional).
- Rated output: from 1.5kW to 5kW (customizable).
- Floor Mounted or Wall-Mounted is optional.
- Suitable for less developed countries and markets.

Item	SP-ESS-1.5K-5K-E1	SP-ESS-1.5K-5K-E2
BATTERY		
Cell Chemistry	LiFePO4	LiFePO4
Battery Energy	5.5kWh	5.12kWh
Battery Voltage	25.6V	51.2V
Nominal Capacity	230Ah	100Ah
Standard Charging Current	20A	20A
Maximum Charging Current	66A	100A
Standard Discharge	40A	20A
Maximum Discharge Current	100A	100A
Maximum Output Power	2.5kW	5kW
Charging Cut-off Voltage	≤30.4V (3.8V/cell)	≤60.8V (3.8V/cell)
Discharge Cut-off Voltage	≥20.0V (2.5V/cell)	≥40.0V (2.5V/cell)
Cycle Life	2000 Cycles (DOD80%)	6000 Cycles (DOD80%)
Weight	85Kg	60Kg
PV CHARGE		
Solar Charge Type	MPPT	MPPT
Maximum Output Power	1.1kW	5kW
PV Charging Current Range	0~40A	0~80A
PV Operating Voltage Range	30~100V	120~500V
AC CHARGE		
Rated AC Input Power	600W	3150W
AC Charging Voltage Range	90~140Vac	170~280Vac
DC Output Current	20A (CC)	0~60A
Max. DC Output Voltage	29.2V (CV)	58.4V (CV)
INVERTER		
Rated Output Power	1.5kW	5kW
Output Voltage / Frequency	110Vac/60Hz 3KW	220Vac/50Hz 1
Peak Output Power	3kW	10kW
DC Input Voltage Range	19.0~30.0V	44.8~58.4V
Parallel Quantity	Single Use	Single Use
Designed Life-span	5Years	10Years
Dimensions (LxWxH)	500x300x790mm	500*165*650mm



5kWh Wall Mounted Energy Storage Battery System

- 5kWh 51.2V100Ah LiFePO4 battery module.
- Maximum output is 5kW.
- The capacity can be expanded up to 15pcs in parallel.
- RS485/CANbus is available, compatible with main brand inverters.
- Easy to install.

Item	SP-ESS-5kWh-B1
BATTERY	
Cell Chemistry	LiFePO4
Battery Energy	5.12kWh
Battery Voltage	51.2V
Nominal Capacity	100Ah
Operating Voltage Range	44.8~57.6V
Maximum Output Power	5kW
Maximum Charging Current	100A
Maximum Continuous Discharge Current	100A
Cycle Life	6000 Cycles (DOD80%)
Dimensions (LxWxH)	440x182x600mm
Weight	54Kg
Parallel Quantity	Maximum 15 Modules
Designed Life-span	10 years
Installation	Wall Mounted
Communication	RS485/CANbus/Ethernet/WiFi
Matching with Inverters	MEGAREVO/GOODWE/GRWT/SAM/SUNGROW
Certification	UL1973, IEC62619, CE61000, UN38.3
Charging Temperature Range	0~50°C
Discharge Temperature Range	-20~60°C
Enclosure Protection	IP54
Humidity	≤85%
Altitude	≤2000m
Application	Indoor
Inverter Choosing	On/Off Grid Single/3 Phases Inverter
Heat Management	Air Cooling



5kWh Rack Mounted Energy Storage Battery

- 5kWh 51.2V100Ah LiFePO4 battery module, compact design.
- Maximum output is 5kW.
- RS485/CANbus, compatible with main brand inverters.
- Maximum 15pcs in parallel to be larger system.
- Easy to install.
- Suitable for indoor/outdoor solar energy storage.

Item	SPF48V100-SM	SPF24V200-SM
BATTERY		
Cell Chemistry	LiFePO4	
Battery Energy	5.12kWh	5.12kWh
Battery Voltage	51.2V	25.6V
Nominal Capacity	100Ah	200Ah
Operating Voltage Range	44.8~57.6V	22.4~28.8V
Dimensions (LxWxH)	482x370x175mm	482.6x432.2x220mm
Weight	42Kg	48Kg
Maximum Output Power	5kW	
Maximum Charging Current	100A	
Maximum Continuous Discharge Current	100A	
Cycle Life	6000 cycles at 80% DOD	
Parallel Quantity	Maximum 15pcs	
Designed Life-span	10 Years	
Installation	Standard 19" Power Cabinet or Rack	
Communication	RS485/CANbus/Ethernet/WiFi	
Matching with Inverters	MEGAREVO/GOODWE/GRWT/SAM/SUNGROW	
Certification	UL1973, IEC62619, CE61000, UN38.3	
Charging Temperature Range	0~50°C	
Discharge Temperature Range	-20~60°C	
Enclosure Protection	IP20	
Humidity	≤85%	
Altitude	≤2000m	
Application	Indoor / Outdoor	
Inverter Choosing	On/Off Grid Single/3 phases inverter	
Heat Management	Air Cooling	



7kWh Wall Mounted Energy Storage System

- Light weight, small size.
- Support a variety of communication protocols, such as, RS485, RS232, CAN etc.
- Cycle life up to 6000 cycles.
- Compatible with a variety of inverters.
- Built-in Intelligent battery management system.
- In the extreme performance safety test, the battery will not catch fire, explode, leak, and be safer to use.

Item	SP-ESS-6.66kWh-B1
BATTERY	
Cell Chemistry	LiFePO4
Battery Energy	6.66kWh
Battery Voltage	51.2V
Nominal Capacity	130Ah
Nominal Energy	6656
Operating Voltage Range	43.2-57.6V
Maximum Output Power	7.68kW
Maximum Charging Current	150A
Maximum Continuous Discharge Current	150A
Cycle Life	>6000 time, 25°C/77°F, 80%DOD
Dimensions (LxWxH)	1120*510*105mm
Weight	74Kg
Designed Life-span	10 years
Installation	Wall Mounted
Communication	RS485,RS232 CAN
Certification	CE/UN38.3
Charging Temperature Range	0~45°C
Discharge Temperature Range	-20~60°C
Enclosure Protection	IP54
Storage Ambient Temperature	10~30°C
Warranty Period	5 year
Application	Indoor
Inverter Choosing	Compatible with a variety of inverters



12kWh Floor Mounted Energy Storage System

- Light weight, small size.
- Support a variety of communication protocols, such as, RS485, RS232, CAN etc.
- Cycle life up to 6000 cycles.
- Compatible with a variety of inverters.
- Built-in Intelligent battery management system.
- In the extreme performance safety test, the battery will not catch fire, explode, leak, and be safer to use.

Item	SP-ESS-11.776kWh-B1
BATTERY	
Cell Chemistry	LiFePO4
Battery Energy	11.776kWh
Battery Voltage	51.2V
Nominal Capacity	230Ah
Nominal Energy	11776
Operating Voltage Range	43.2-57.6V
Maximum Output Power	7.68kW
Maximum Charging Current	100A
Maximum Continuous Discharge Current	150A
Cycle Life	>6000 time, 25°C/77°F, 80%DOD
Dimensions (LxWxH)	480x250x800mm
Weight	93Kg
Designed Life-span	10 years
Installation	Floor-Mounted Style
Communication	RS485,RS232 CAN
Certification	CE/UN38.3
Charging Temperature Range	0~45°C
Discharge Temperature Range	-20~60°C
Enclosure Protection	IP54
Storage Ambient Temperature	10~30°C
Warranty Period	5 year
Application	Indoor
Inverter Choosing	Compatible with a variety of inverters



15kWh Floor Mounted Energy Storage System

- Light weight, small size.
- Support a variety of communication protocols, such as, RS485, RS232, CAN etc.
- Cycle life up to 6000 cycles.
- Compatible with a variety of inverters.
- Built-in Intelligent battery management system.
- In the extreme performance safety test, the battery will not catch fire, explode, leak, and be safer to use.

Item	SP-ESS-14.336kWh-B1
BATTERY	
Cell Chemistry	LiFePO4
Battery Energy	14.336kWh
Battery Voltage	51.2V
Nominal Capacity	280Ah
Nominal Energy	14336
Operating Voltage Range	43.2-57.6V
Maximum Output Power	7.68kW
Maximum Charging Current	150A
Maximum Continuous Discharge Current	150A
Cycle Life	>6000 time, 25°C/77°F, 80%DOD
Dimensions (LxWxH)	840x500x230mm
Weight	118Kg
Designed Life-span	10 years
Installation	Floor-Mounted Style
Communication	RS485,RS232 CAN
Certification	CE/UN38.3
Charging Temperature Range	0~45°C
Discharge Temperature Range	-20~60°C
Enclosure Protection	IP54
Storage Ambient Temperature	10~30°C
Warranty Period	5 year
Application	Indoor
Inverter Choosing	Compatible with a variety of inverters



16kWh Floor Mounted Energy Storage System

- Light weight, small size.
- Support a variety of communication protocols, such as, RS485, RS232, CAN etc.
- Cycle life up to 6000 cycles.
- Compatible with a variety of inverters.
- Built-in Intelligent battery management system.
- In the extreme performance safety test, the battery will not catch fire, explode, leak, and be safer to use.

Item	SP-ESS-16kWh-B1
BATTERY	
Cell Chemistry	LiFePO4
Battery Energy	16.08kWh
Battery Voltage	51.2V
Nominal Capacity	314Ah
Nominal Energy	16076.8
Operating Voltage Range	43.2-57.6V
Maximum Output Power	7.68kW
Maximum Charging Current	150A
Maximum Continuous Discharge Current	150A
Cycle Life	>6000 time, 25°C/77°F, 80%DOD
Dimensions (LxWxH)	560x175x940mm
Weight	118Kg
Designed Life-span	10 years
Installation	Floor-Mounted Style
Communication	RS485,RS232 CAN
Certification	CE/UN38.3
Charging Temperature Range	0~45°C
Discharge Temperature Range	-20~60°C
Enclosure Protection	IP54
Storage Ambient Temperature	10~30°C
Warranty Period	5 year
Application	Indoor
Inverter Choosing	Compatible with a variety of inverters



204V High Voltage Battery System (Stacked Style)

- Maximum output is 10kW or 20kW.
- Maximum output is 5kW.
- 10KWh is suitable for 10kW and 20kWh for 20kW; Single phase or 3 phases on/off hybrid inverter.
- RS485/CANbus, compatible with main brand inverters.
- Easy to install.

Item	SPF204V50-HV	SPF204V100-HV
BATTERY		
Cell Chemistry	LiFePO4	LiFePO4
Battery Energy	10.24kWh	20.48kWh
Nominal Voltage	204.8V	204.8V
Nominal Capacity	50Ah	100Ah
Maximum Charging Current	50A	100A
Maximum Continuous Discharge Current	50A	100A
Maximum Output Power	10kW	20kW
HV Controller	1pc	1pc
Weight	108Kg	216Kg
Dimensions (LxWxH)	560x270x850mm	560x540x850mm
Operating Voltage Range	179.2 ~230.4V	
Cycle Life	6000 Cycles at 80% DOD	
Designed Life-span	10 Years	
Installation	Floor Mouned (Horizonal and Stacking)	
Communication	RS485/CANbus/Ethernet/WiFi	
Charging Temperature Range	0~50°C	
Discharge Temperature Range	-20~60°C	
Enclosure Protection	IP54	
Humidity	≤85%	
Altitude	≤2000m	
Application	Indoor	
Inverter Choosing	On/Off Grid Single/3 Phases Inverter	
Heat Management	Air Cooling	



512V High Voltage Battery System

- 10pcs 51.2V LiFePO4 battery module in series + 1pc HV controller,compact design.
- RS485/CANbus, compatible with main brand inverters.
- Easy to install.
- Suitable for 3 phases on/off grid solar energy storage.

Item	SPF512V50-HV	SPF512V150-HV
Cell Chemistry	LiFePO4	
Battery Module	SPF48V50Ah-3U (10pcs in series)	SPF48V150Ah (10pcs in series)
Battery Energy	25.6kWh	76.8kWh
Nominal Voltage	512V	512V
Nominal Capacity	50Ah	150Ah
Maximum Charging Current	50A	150A
Maximum Continuous Discharge Current	50A	150A
Maximum Output Power	25kW	76kW
HV Controller	1pc	1pc
Module Dimensions (LxWxH)	482x451x132mm	614x500x186mm
Module Weight	28.5 Kg (10pcs) + 9.7Kg (1pc HV DC controller) 60Kg(10pcs)+10Kg (1pc HV DC controller)	
Installation	Standard 19" Power Cabinet	Stacked Power Cabinet
Operating Voltage Range	448 ~576V	
Cycle Life	6000 Cycles at 80% DOD	
Designed Life-span	10 Years	
Communication	RS485/CANbus/Ethernet/WiFi	
Charging Temperature Range	0~50°C	
Discharge Temperature Range	-20~60°C	
Enclosure Protection	IP20	
Humidity	≤85%	
Altitude	≤2000m	
Application	Indoor/Outdoor	
Inverter Choosing	On/Off Grid Single/3 Phases Inverter	
Heat Management	Air Cooling	



Multifunctional Solar Home System

- The integrated design solution reflects the portability, aesthetics and practicality.
- The smart built-in BMS improves the product stability.
- Solar power is free of charge.
- Built-in 5V USB 12V output ports can power the mobile phones and DC appliances.
- Multiple protection included, such as over-charging, over-discharging, short circuit and reverse connecting, no need to replace the fuse.
- Multiple output ports can fully meet the various needs of users.

Item	SPF 100WB40-A1	SPF 200WB100-A1
Solar Panels	18V/100W*1PC	18V/200W*1PC
Solar Panel Size (LxWxT)	1016x670x32mm	1200x880x35mm
Solar Panel Weight	4.8Kg	7.7Kg
Power Supply Rated Battery Power	500W	1200W
Power Supply Battery Capacity	40Ah/12.8Vdc	100Ah/12.8Vdc
Rated Capacity	512Wh	1280Wh
Cell Chemistry	LiFePO4	LiFePO4
USB Output	USB (QC3.0*2); USB (5V/2.4A*2); USB QC3.0&Type-C PD	USB Ports 5V/2.1A, 5V/1A
DC Output Port	12.8V Anderson Plug (20A*4) 12.8V Terminal Ports (Pos + & Neg -; 40A)	12.8V Anderson Plug (50A*2) DC Ports12V10A*2 12.8V Terminal Ports (Pos + & Neg -; 100A)
AC Output	N/A	500W (110V/60Hz or 220V/50Hz)
Led Indicator	Solar Charging Indicator, Battery Level Indicator, Load Status Indicator	
Protective Function	Overcharge Protection, Overdischarge Protection, Overcurrent Protection, Short Circuit Protection, PV Reverse Polarity Protection	
DC Input Port	14.4V Anderson Plug (20A*1) 14.4V Terminal Ports (Pos + & Neg -; 40A)	14.4V Anderson Plug (50A*2) 14.4V Terminal Ports (Pos + & Neg -; 100A)
Circuit Breaker Switch On/Off	N/A	16A Breaker
Limited Charger Voltage(Vdc)	14.4±0.2	14.4±0.2
Over Discharge Protection Voltage (Vdc)	10.0±0.2	10.0±0.2
Over Discharge Recovery Voltage (Vdc)	11.2±0.2	11.2±0.2
Overvoltage Protection (Vdc)	15.6±0.2	15.6±0.2
Overvoltage Recovery (Vdc)	14.4±0.2	14.4±0.2
Dimensions (LxWxH)	350x180x250mm	330x190x230mm
Power Supply Net Weight	5.3Kg	12Kg
Power Supply Gross Weight	6.8Kg	13.5Kg
Power Supply Work Time	LED Bulb 3W*4+5W*1 25H	LED Bulb 3W*4 +5W*1 64H
Attachment Details	● 8m PV Panel Cable*1, ● LED Bulb 5W/480lm*1, ● LED Bulb 3W/310lm*4, ● LED Bulb Cable 8m*5, ● 5-in-1 USB Charging Cable*1	● 8m PV Panel Cable*1, ● LED Bulb 5W/480lm*1, ● LED Bulb 3W/310lm*4, ● LED Bulb Cable 8m*5, ● 5-in-1 USB Charging Cable*1
Optional Accessories	Desk Fan, Floor Fan,19-Inch TV, 22-Inch TV	
Certificate	CQC, MSDS UN38.3, CE, RoHS, Lighting Global	



All-in-one Portable Power Station

- High quality single cells.
- Intelligent BMS management system.
- High capacity lithium iron phosphate cell.
- Bidirectional inverter output.
- Supports UPS (Uninterruptible Power Supply) settings.
- Intelligent Off Network Control System.
- With USB charging ports.
- Support photovoltaic power generation.

Item	SP-ESS-6kWh-3kW	SP-ESS-15kWh-11kW
Electrical Characteristics		
Cell Chemistry	LiFePO4	LiFePO4
Nominal Voltage	25.6V	51.2V
Battery Energy	6kWh	14.3kWh
Cycle Life	>4000 Cycle @80%DOD @25°C	>4000 Cycle @80%DOD @25°C
Communication	RS485/RS232/CAN	RS485/RS232/CAN
Standard Charge		
Charge Voltage	29.2V	58.4V
Standard Charge Current	100A	100A
Rapid Charge Current	150A	200A
Max. Charge Current	150A	200A
Standard Discharge		
Discharge Cut-off Voltage	20V	40V
Standard Discharge Current	100A	200A
Max. Continuous Discharge Current	150A	200A
Inverter		
AC Input	170-280Vac; 50/60Hz	170-280Vac; 50/60Hz
AC Output	230Vac; 50/60Hz	230Vac; 50/60Hz
Rated Power	3kW	11kW
MPPT		
MAX.PV Array Power	3000W	5500W/5500W
MPPT Operating Voltage	90-450Vdc	90-450Vdc
MPPT Max Charge Current	80A	22A/22A
USB Port		
Specification	5V3.6A	-
Temperature		
Charge Temperature	0~55°C	0~55°C
Discharge Temperature	-20~65°C	-20~65°C
Mechanical		
Dimensions (LxWxH)	610x560x270mm	610x260x848mm
Weight	86.5±0.5Kg	150±0.5Kg



Balcony Solar Portable Power Station

- 1.38kWh/2.4kW - High power & capacity.
- Parallel x6 for 22.8kWh/14.4kW.
- 3H full charge, fast discharge.
- LiFePO4 battery (4000+ cycles).
- Pure sine wave (50Hz/60Hz universal).
- UPS ≤20mS switching.

Item	SPE3800-2400W
Batory Input Data	
Rated Energy	3686Wh
Practical Capacity	3800Wh
Configuration	16S1P
Rated Capacity	72Ah
Nominal Voltage	51.2V
Standard Cycle	>4000 Cycles
Operating Temperature Range	Charge: -20~55°C; Discharge: -20~55°C
AC Input	
Rated AC Input Voltage	220/230/240V AC
AC Input Voltage Range	90-280V AC+3V (APL Mode) 170-280V AC+3V (UPS Mode)
Frequency Range	50Hz / 60Hz
Input Sources	L+N+PE
AC Output	
Rated Output Power	2400W
AC Output Voltage Range	220/230/240V AC+5%
Surge Power	4800AV
Output Frequency	50Hz/60Hz
Waveform	Pure Sine Wave
Overload Protection	5M @102%-120% rated load 10S @120%~150% rated load 5S @>150% rated load
PV String Input Data	
Maximum Power	2*800W
Solar Voltage Range	10V~100V DC
Maximum Open Circuit Voltage	100V DC
Maximum Current	16A
MPPT Quantity	2pcs
Mechanical	
Dimensions (LxWxH)	510x340x315mm
Weight	45±1Kg



50/70kWh Commercial Energy Storage System

- 10/14pcs 51.2V LiFePO4 battery module in series + 1pc HV controller, compact design.
- RS485/CANbus, compatible with main brand inverters.
- Easy to install.
- Suitable for 3 phases on/off grid solar energy storage.
- Work with 25kW hybrid inverter.

Item	SPF512V100-HV	SPF716V100-HV
Cell Chemistry	LiFePO4	LiFePO4
Battery Module	SPF48V100Ah-3U (10pcs in series)	SPF48V150Ah (14pcs in series)
Battery Energy	51.2kWh	71.6kWh
Nominal Voltage	512V	716.8V
Nominal Capacity	100Ah	100Ah
Maximum Charging Current	100A	100A
Maximum Continuous Discharge Current	100A	100A
Maximum Output Power	50kW	70kW
HV Controller	1set	1set
Module Dimensions (LxWxH)	600x600x1750mm	600x600x2335mm
Module Weight	42Kg (10pcs) + 9.7Kg (1pc HV DC Controller) 42Kg(14pcs)+10Kg (1pc HV DC Controller)	
Installation	Standard 19" Power Cabinet	Stacking Mounted Power Cabinet
Operating Voltage Range	448 ~576V	627 ~806V
Cycle Life	6000 Cycles at 80% DOD	
Designed Life-span	10 Years	
Communication	RS485/CANbus/Ethernet/WiFi	
Charging Temperature Range	0~50°C	
Discharge Temperature Range	-20~60°C	
Enclosure Protection	IP20	
Humidity	≤85%	
Altitude	≤2000m	
Application	Indoor/Outdoor	
Inverter Choosing	On/Off Grid 3 Phases Hybrid Vinverter	
Heat Management	Air Cooling	



100kWh Commercial Energy Storage System

- 10pcs 51.2V LiFePO4 battery module in series + 1pc HV controller, compact design.
- RS485/CANbus, compatible with main brand inverters.
- Easy to install.
- Suitable for 3 phases on/off grid solar energy storage.
- Work with 50kW hybrid inverter.

Item	SPF512V200-HV
Cell Chemistry	LiFePO4
Battery Module	SPF48V100Ah-4U (10pcs in Series 2Strings in Parallel)
Battery Energy	102.4kWh
Nominal Voltage	512V
Nominal Capacity	200Ah
Maximum Charging Current	100A
Maximum Continuous Discharge Current	100A
Maximum Output Power	100kW
HV Controller	2sets
Module Dimensions (LxWxH)	1500x750x1950mm
Module Weight	42Kg (20pcs) + 9.7Kg (2pcs HV DC Controller)
Installation	Standard 19" Power Cabinet
Operating Voltage Range	448 ~576V
Cycle Life	6000 Cycles at 80% DOD
Designed Life-span	10 Years
Communication	RS485/CANbus/Ethernet/WiFi
Charging Temperature Range	0~50℃
Discharge Temperature Range	-20~60℃
Enclosure Protection	IP20
Humidity	≤85%
Altitude	≤2000m
Application	Indoor/Outdoor
Inverter Choosing	On/Off Grid 3 Phases Hybrid Inverter
Heat Management	Air Cooling



Battery Solution for More Applications



Medical Cart Battery



Portable Power Station



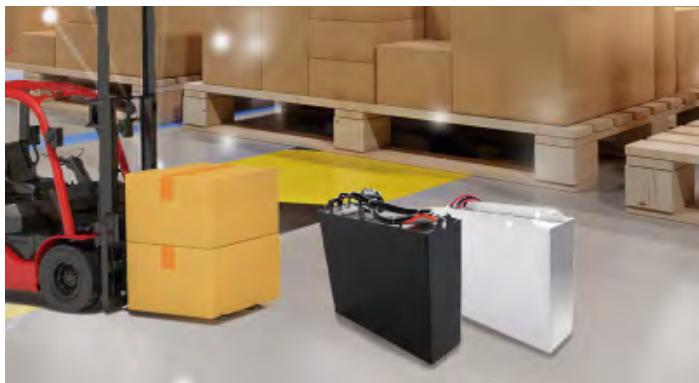
RV Battery



Marine Battery



AGV Battery



Forklift Battery



Trolling Motor Battery



Golf Cart GC2 Battery