



SOLAR POWER SYSTEM

10 YEARS PV EXPERIENCE, RELIABLE QUALITY, PLEASE FEEL FREE TO PURCHASE.

PV ENERGY STORAGE, OFF-GRID ENGINEERING, HYBRID INVERTERS, SOLAR SYSTEMS



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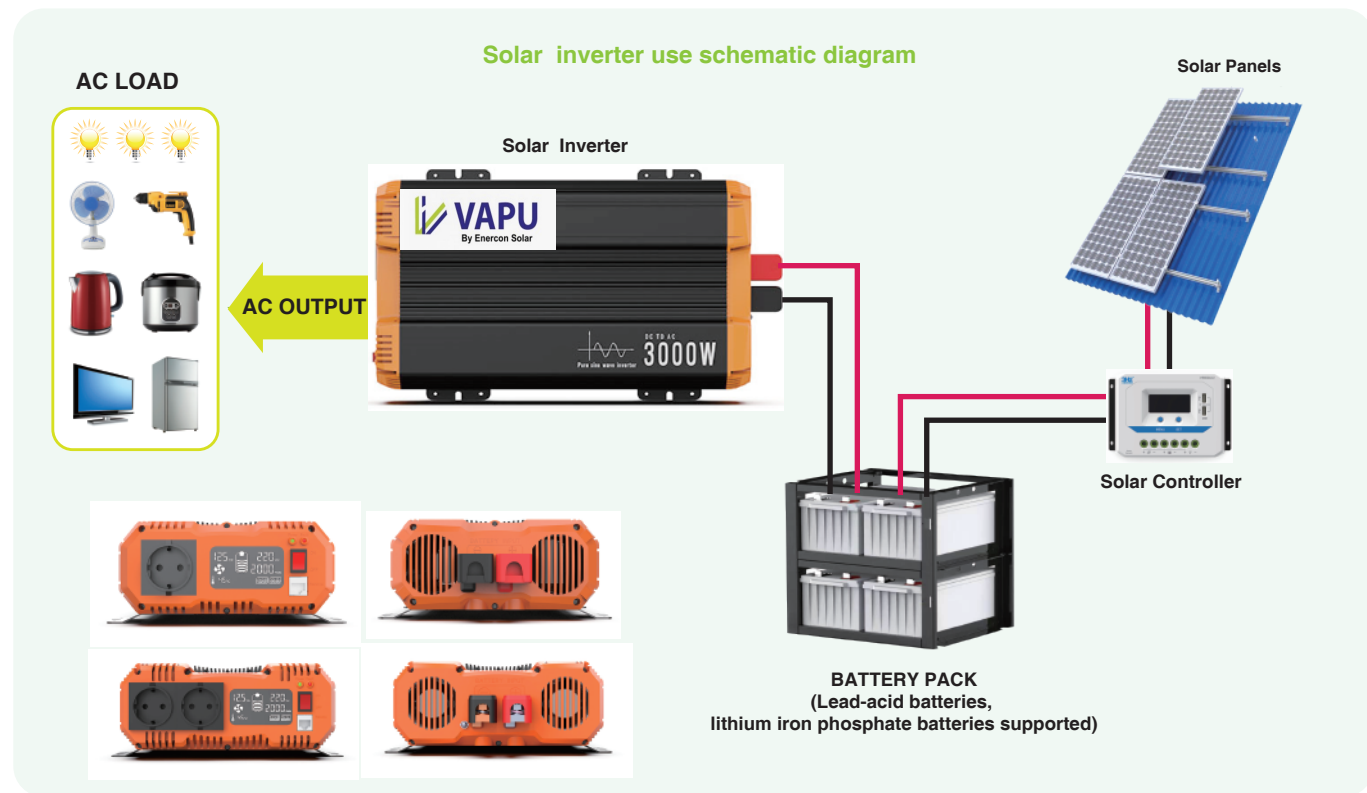
Because the products are constantly updated, please refer to the final purchased products in kind.



2025 CATALOG

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■ Pure Wave Inverter

1500W ~ 3500W

Pure Sine Wave Inverter Parameter

Model	PST-1500W	PST-2000W	KST-2500W	KST-3000W	KST-3500W
Picture References					
OUTPUT					
Rated power	1500W/1800VA	2000W/2400VA	2500W/3000VA	3000W/ 3600VA	3500W/ 4000VA
Output Voltage	AC220V / 230V / 240V				
Output frequency	50Hz or 60Hz				
Output Waveform	pure sine wave				
Display screen	LCD display				
Battery Voltage	12V or 24V or 48V				
INPUT					
Battery Type	Lead-acid batteries / Lithium batteries				
Standby power	≤7W	≤8.8W	≤8.8W	≤10W	≤10W
Conversion efficiency	88~92%				
Protection Function	Input: low power protection, over-voltage protection, reverse connection protection Output: overload protection, short circuit protection, overheating protection				
Work environment					
Operating temperature	—20℃ ~+ 70 ℃				
Packing specification					
Product Size	34*23.3*9.6cm	38*23.3*9.6cm	37.4*26.8*10.5cm	47.4*26.8*10.5cm	47.4*26.8*10.5cm
Product Weight	2.92KG	3.46KG	4.38KG	5.75KG	5.75KG
Inner Box Size	43*29*17.3cm	43*29*17.3cm	42.5*32.5*18.3cm	52*32.5*18.3cm	52*32.5*18.3cm
Outer box size	44.5*31*38.7cm	44.5*31*38.7cm	44.5*34*39.6cm	53.5*34*39.6cm	53.5*34*39.6cm
Carton Quantity	2 units/carton	2 units/carton	2 units/carton	2 units/carton	2 units/carton
Carton Weight	9.35KG	9.85KG	11.5KG	14.95KG	14.95KG

Pure Wave Inverters are widely used in boats, RVs, islands, solar energy, and other applications where DC to AC power is required for various electrical utilities.

OFF-GRID
HYBRID INVERTER



MPPT Charge



Battery-free operation
Lithium-ion activation



DC Charge



AC Charge



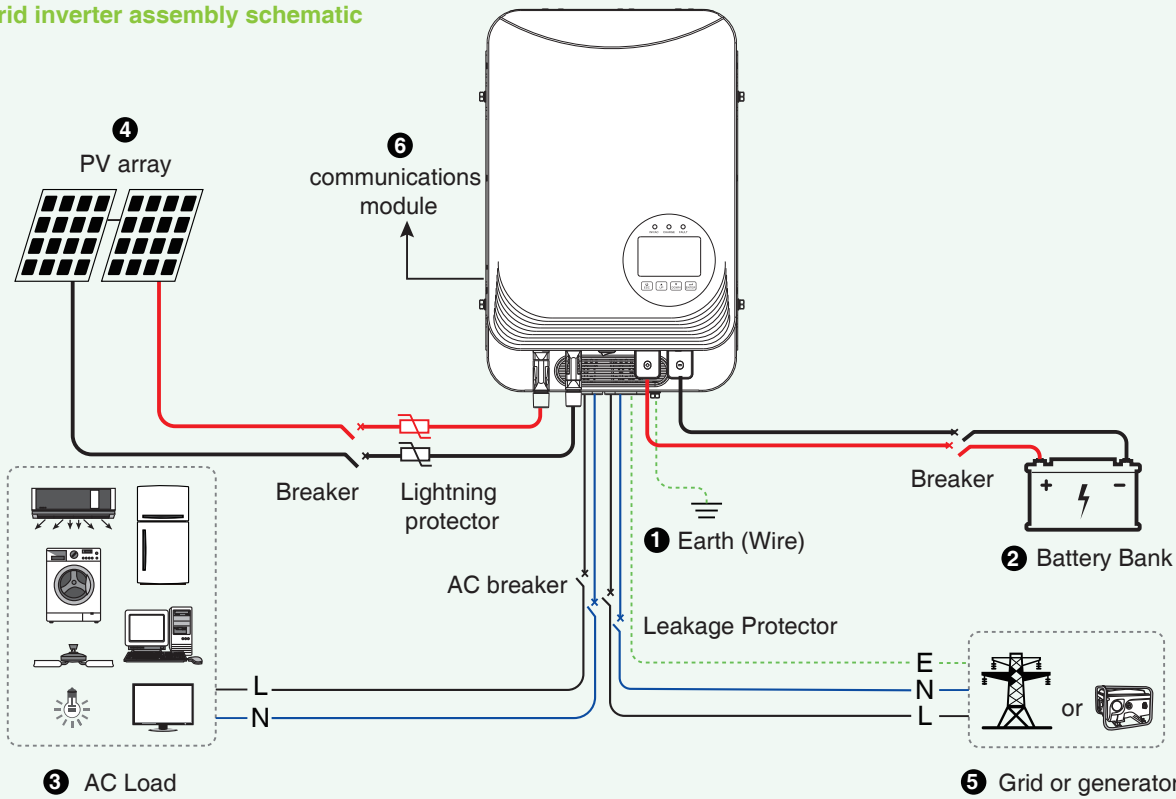
Energy-saving Mode



10Ms

Function: This device is a hybrid inverter, with AC charging and MPPT solar charging, UPS uninterruptible power supply function, can also realize battery-free operation, can be connected to a variety of types of batteries (including: lead-acid batteries, colloidal batteries, ternary lithium batteries, lithium iron phosphate batteries, etc.).

Hybrid inverter assembly schematic



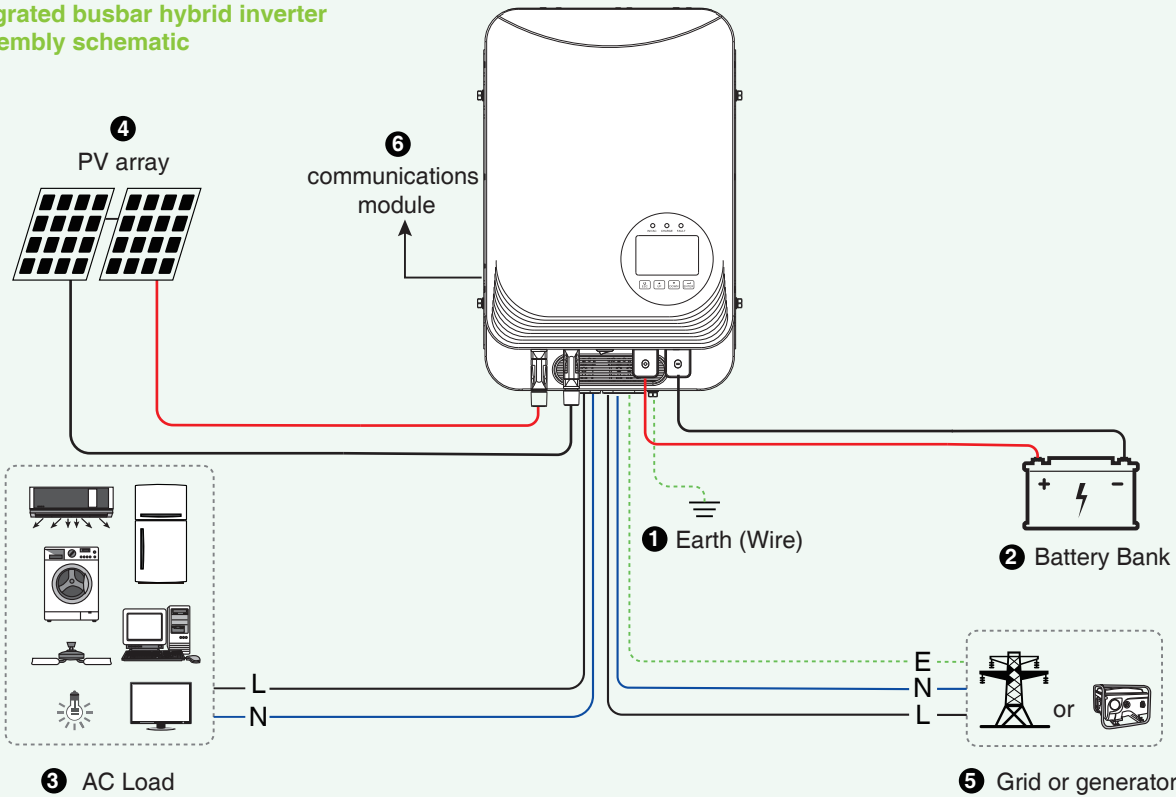
Power	4.2KW	6.2KW
Model	0918KHP4.2KW-03A	0918KHP6.2KW-03A
AC INVERTER OUTPUT		
Rated output power	4.2KW	6.2KW
Peak power	8.4KW (5s)	12.4KW (5s)
Output Waveform	pure sine wave	
Output voltage	230VAC±5%	
Output frequency	50Hz / 60Hz (Auto)	
Max. efficiency	93%	
Overload protection	5S@ ≥ 150% Load; 10S@ 110%~150% Load	
PV CHARGE INPUT		
Max. PV Input Power	7200W	
Max. MPPT controller charge current	90A	
Optimal input voltage for PV	240VDC	
MPPT PV array voltage range	45V~450VDC, Start-up voltage:65V	
Max. open-circuit voltage of the PV array	500VDC	
Hybrid max. charging current = AC charging + solar charging	100A	
AC CHARGE INPUT (UPS BYPASS)		
Max. AC Charge Input	80A (default 60A, settable)	
Input Voltage Waveform	Pure sine wave (utility grid or generator)	
Input Voltage	230VAC	
Low-loss voltage	170VAC±7V (UPS bypass); 90VAC7V (APPLIANCES)	
Low-loss return voltage	180VAC±7V (UPS bypass); 100VAC±7V (APPLIANCES)	
Input frequency	50HZ/60HZ(Outo)	
Output short-circuit protection	breaker	
Efficiency (line mode)	>95% (Rated R load, battery fully charged)	
UPS changeover time	10ms(UPS bypass); 20ms (Appliances)	
DC BATTERY INPUT		
Max. charging voltage	28.2VDC (default/settable)	56.4VDC (default/settable)
Float Charge Voltage	27.0VDC (default/settable)	54.0VDC (default/settable)
DC input voltage range	24VDC-33VDC	48VDC~63VDC
Undervoltage protection / shutoff	Load ≥ 50% 20.5VDC Load<50% 20.0VDC	Load ≥ 50% 40.0VDC Load<50% 41.0VDC
Under Voltage Recovery / Power On	Reset POWER	Reset POWER
No load power consumption	≈ 0.7A	≈ 0.6A
DISPLAY AND PROTECTION FUNCTION		
LCD display	Display: AC current and power, output voltage, input voltage, operating frequency, charging current and power, battery voltage, PV power	
Protective function	Over-voltage protection, under-voltage protection, short-circuit protection, overload protection, over-temperature protection, anti-surge protection	
OTHER PARAMETER		
Security certification	CE	
Working Temperature Range	-10° C TO 50°C	
Temperature range for storage	-15°C~60°C	
Storage humidity range	5% to 95% Relative humidity (non-condensing)	
Product Size(LxWxH)mm	460x300x120(mm)	460x300x120(mm)
Product net weight(kg)	9.5kg	12.3kg

INTEGRATED COMBINER BOX
HYBRID INVERTER



Function: This device is a hybrid inverter with AC charging and MPPT solar charging, UPS uninterruptible power supply function, can also realize battery-free operation, can be connected to a variety of types of batteries (including: lead-acid batteries, colloidal batteries, ternary lithium batteries, lithium iron phosphate batteries, etc.). The device has a perfect protection function, integrated 250A battery terminal circuit breaker, PV lightning protector, PV circuit breaker, AC input leakage protector, AC output circuit breaker and other protection functions, safer to use, easier to install.

Integrated busbar hybrid inverter
assembly schematic



Power	4.2KW	6.2KW
Model	0918KHP4.2KW-HL	0918KHP6.2KW-HL
AC INVERTER OUTPUT		
Rated output power	4.2KW	6.2KW
Peak power	8.4KW (5s)	12.4KW (5s)
Output Waveform	pure sine wave	
Output voltage	230VAC±5%	
Output frequency	50Hz / 60Hz (Auto)	
Max. efficiency	93%	
Overload protection	5S@ ≥ 150% Load; 10S@110%~150% Load	
PV CHARGE INPUT		
Max. PV Input Power	7200W	
Max. MPPT controller charge current	90A	
Optimal input voltage for PV	240VDC	
MPPT PV array voltage range	45V~450VDC, Start-up voltage:65V	
Max. open-circuit voltage of the PV array	500VDC	
Hybrid max. charging current = AC charging + solar charging	100A	
AC CHARGE INPUT (UPS BYPASS)		
Max. AC Charge Input	80A (default 60A, settable)	
Input Voltage Waveform	Pure sine wave (utility grid or generator)	
Input Voltage	230VAC	
Low-loss voltage	170VAC±7V (UPS bypass); 90VAC7V (APPLIANCES)	
Low-loss return voltage	180VAC±7V (UPS bypass); 100VAC±7V (APPLIANCES)	
Input frequency	50HZ/60HZ(Outo)	
Output short-circuit protection	breaker	
Efficiency (line mode)	>95% (Rated R load, battery fully charged)	
UPS changeover time	10ms(UPS bypass); 20ms (Appliances)	
DC BATTERY INPUT		
Max. charging voltage	28.2VDC (default/settable)	56.4VDC (default/settable)
Float Charge Voltage	27.0VDC (default/settable)	54.0VDC (default/settable)
DC input voltage range	24VDC-33VDC	48VDC~63VDC
Undervoltage protection / shutoff	Load ≥ 50% 20.5VDC Load<50% 20.0VDC	Load ≥ 50% 40.0VDC Load<50% 41.0VDC
Under Voltage Recovery / Power On	Reset POWER	Reset POWER
No load power consumption	≈ 0.7A	≈ 0.6A
DISPLAY AND PROTECTION FUNCTION		
LCD display	Display: AC current and power, output voltage, input voltage, operating frequency, charging current and power, battery voltage, PV power	
Protective function	Over-voltage protection, under-voltage protection, short-circuit protection, overload protection, over-temperature protection, anti-surge protection.	
	250A battery terminal circuit breaker, PV lightning protector, PV circuit breaker, AC input leakage protector, AC output circuit breaker and many other protection functions	
OTHER PARAMETER		
Security certification	CE	
Working Temperature Range	-10° C TO 50°C	
Temperature range for storage	-15°C~60°C	
Storage humidity range	5% to 95% Relative humidity (non-condensing)	
Product Size(LxWxH)mm	530x360x140(mm)	530x360x140(mm)
Product net weight(kg)	12.3kg	12.3kg

OFF-GRID SOLAR
ENERGY STORAGE SYSTEM

- 

MPPT Charge
- 

Built-in lithium iron phosphate battery
- 

DC Charge
- 

AC Charge
- 

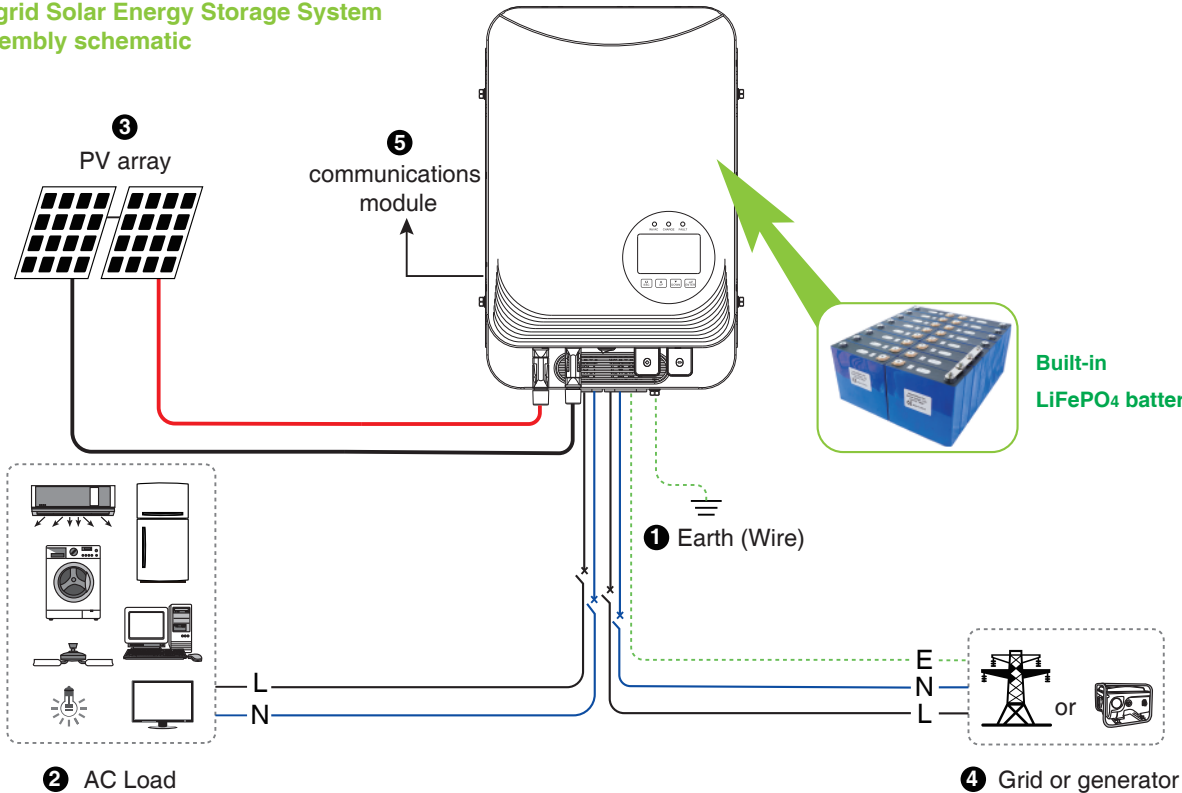
Energy-saving Mode
- 

UPS bypassed
10Ms



Function: This product is a wall-mounted energy storage power supply with built-in lithium iron phosphate battery and 220V AC output. With AC charging and MPPT solar charging, UPS uninterruptible power supply function, this equipment has a perfect protection function, integrated 250A battery terminal circuit breaker, PV lightning protector, PV circuit breaker, AC input leakage protector, AC output circuit breaker and other kinds of protection functions, simple to use, safe and convenient and stable.

Off-grid Solar Energy Storage System
assembly schematic



Power	4.2KW-2.65KWH	6.2KW-5.12KWH
Model	0918KHP4.2KW-BG	0918KHP6.2KW-BG
AC INVERTER OUTPUT		
Rated output power	4.2KW	6.2KW
Peak power	8.4KW (5s)	12.4KW (5s)
Output Waveform	pure sine wave	
Output voltage	230VAC±5%	
Output frequency	50Hz / 60Hz (Auto)	
Max. efficiency	93%	
Overload protection	5S@ ≥ 150% Load; 10S@ 110%~150% Load	
PV CHARGE INPUT		
Max. PV Input Power	7200W	
Max. MPPT controller charge current	90A	
Optimal input voltage for PV	240VDC	
MPPT PV array voltage range	45V~450VDC, Start-up voltage:65V	
Max. open-circuit voltage of the PV array	500VDC	
Hybrid max. charging current = AC charging + solar charging	100A	
AC CHARGE INPUT (UPS BYPASS)		
Max. AC Charge Input	80A (default 60A, settable)	
Input Voltage Waveform	Pure sine wave (utility grid or generator)	
Input Voltage	230VAC	
Low-loss voltage	170VAC±7V (UPS bypass); 90VAC7V (APPLIANCES)	
Low-loss return voltage	180VAC±7V (UPS bypass); 100VAC±7V (APPLIANCES)	
Input frequency	50HZ/60HZ(Outo)	
Output short-circuit protection	breaker	
Efficiency (line mode)	>95% (Rated R load, battery fully charged)	
UPS changeover time	10ms(UPS bypass); 20ms (Appliances)	
BUILT-IN BATTERY PARAMETER		
Type of battery	LiFePO4 battery	
Battery power	2560WH	5120WH
Battery rated voltage	25.2V	51.2V
Battery capacity	100AH	100AH
Cycle life of batter	4000 times	
DISPLAY AND PROTECTION FUNCTION		
LCD display	Display: AC current and power, output voltage, input voltage, operating frequency, charging current and power, battery voltage, PV power	
Protective function	Over-voltage protection, under-voltage protection, short-circuit protection, overload protection, over-temperature protection, anti-surge protection.	
	250A battery terminal circuit breaker, PV lightning protector, PV circuit breaker, AC input leakage protector, AC output circuit breaker and many other protection functions	
OTHER PARAMETER		
Security certification	CE	
Working Temperature Range	-10° C TO 50°C	
Temperature range for storage	-15°C~60°C	
Storage humidity range	5% to 95% Relative humidity (non-condensing)	
Product Size(LxWxH)mm	500x180x680mm	580x180x800mm
Product net weight(kg)		



15360WH LIFEPO₄ LITHIUM BATTERY



Normal Charging Voltage: 58.4V
Battery Energy: 15360Wh (58.4V/300AH)
Continuous charging current: 0~150A
Continuous discharge current: 200A
Charge end voltage: 58.4V
Discharge end voltage: 44.8-46.5V
Interface: RS232 RS485 CAN
Working Temperature: -15~55°C
Cycle life: >6000
Protection function: high accuracy cell level voltage,current measuring over-charge,over-discharge protection short-circuit protection self-learning intelligent SOC calculation cell level active equalization multiple communication type parallel connect function
Weight: about 103kg
Size: 960X480X255mm

8192WH LIFEPO₄ LITHIUM BATTERY



Normal Charging Voltage: 51.2V
Battery Energy: 8192Wh (51.2V/160AH)
Continuous charging current: 0~150A
Continuous discharge current: 200A
Charge end voltage: 58.4V
Discharge end voltage: 44.8-46.5V
Interface: RS232 RS485 CAN
Working Temperature: -20-60°C
Cycle life: >6000
Protection function: Overshoot / Overdischarge / Short circuit / Overload / Over temperature
Weight: about 60KG
Size: 1100*425*145mm





Battery Type: LiFePO4 Battery



2560Wh
Off-Grid Split-type
Solar Power System

- Solar Panel: 2200W
- AC Output : 220V/4.2kW
- LiFePO4 battery capacity: 2560Wh
- Battery installation: external
- Installation area: about 12m²
- Package Volume: about 1.5m³

MAIN ACCESSORIES

Mono solar panel	41V/550W	4pcs
Inverter	24V/4.2KW	1set
LiFePO4 battery	25.6V/100AH	1set
PV Cables	4m ²	30m
Solar Panel Racking	2200W	1set

Solar panel size: 2279*1134*35mm/pcs



Battery Type: Maintenance-free gel battery



4800Wh
Off-Grid Split-type
Solar Power System

- Solar Panel: 2200W
- AC Output : 220V/4.2kW
- Maintenance-free Gel Battery: 4800Wh
- Battery installation: external
- Installation area: about 12m²
- Package Volume: about 1.6m³

MAIN ACCESSORIES

Mono solar panel	41V/550W	4pcs
Hybrid Inverter	24V/4.2KW	1set
Gel battery	12V/200AH	2pcs
PV Cables	4m ²	30m
Solar Panel Racking	2200W	1set

Solar panel size: 2279*1134*35mm/pcs



Battery Type: LiFePO4 Battery



5120Wh
Off-Grid Split-type
Solar Power System

- Solar Panel: 3300W
- AC Output : 220V/6.2kW
- LiFePO4 battery capacity: 5120Wh
- Battery installation: external
- Installation area: about 16m²
- Package Volume: about 1.6m³

MAIN ACCESSORIES

Mono solar panel	41V/550W	6pcs
Inverter	48V/6.2KW	1set
LiFePO4 battery	51.2V/100AH	1set
PV Cables	4m ²	40m
Solar Panel Racking	3300W	1set

Solar panel size: 2279*1134*35mm/pcs



Battery Type: Maintenance-free gel battery



7200Wh
Off-Grid Split-type
Solar Power System

- Solar Panel: 3300W
- AC Output : 220V/6.2kW
- Maintenance-free Gel Battery: 7200Wh
- Battery installation: external
- Installation area: about 16m²
- Package Volume: about 1.5m³

MAIN ACCESSORIES

Mono solar panel	41V/550W	6pcs
Hybrid Inverter	48V/6.2KW	1set
Gel battery	12V/150AH	4pcs
PV Cables	4m ²	40m
Solar Panel Racking	3300W	1set

Solar panel size: 2279*1134*35mm/pcs



Battery Type: LiFePO4 Battery

10240Wh
Off-Grid Split-type
Solar Power System

- Solar Panel: 4400W
- AC Output : 220V/6.2kW
- LiFePO4 battery capacity: 10240Wh
- Battery installation: external
- Installation area: about 21m²
- Package Volume: about 2.5m³

MAIN ACCESSORIES

Mono solar panel	41V/550W	8pcs
Inverter	48V/6.2KW	1set
LiFePO4 battery	51.2V/200AH	1set
PV Cables	4m ²	50m
Solar Panel Racking	4400W	1set

Solar panel size: 2279*1134*35mm/pcs



Battery Type: Maintenance-free gel battery

9600Wh
Off-Grid Split-type
Solar Power System

- Solar Panel: 4400W
- AC Output : 220V/6.2kW
- Maintenance-free Gel Battery: 9600Wh
- Battery installation: external
- Installation area: about 21m²
- Package Volume: about 3m³

MAIN ACCESSORIES

Mono solar panel	41V/550W	8pcs
Hybrid Inverter	48V/6.2KW	1set
Gel battery	12V/200AH	4pcs
PV Cables	4m ²	50m
Solar Panel Racking	4400W	1set

Solar panel size: 2279*1134*35mm/pcs



Battery Type: LiFePO4 Battery

14336Wh
Off-Grid Split-type
Solar Power System

- Solar Panel: 4950W
- AC Output : 220V/6.2kW
- LiFePO4 battery capacity: 14336Wh
- Battery installation: external
- Installation area: about 26m²
- Package Volume: about 3.5m³

MAIN ACCESSORIES

Mono solar panel	41V/550W	9pcs
Inverter	48V/6.2KW	1set
LiFePO4 battery	51.2V/280AH	1set
PV Cables	4m ²	60m
Solar Panel Racking	4950W	1set

Solar panel size: 2279*1134*35mm/pcs



Battery Type: Maintenance-free gel battery

14400Wh
Off-Grid Split-type
Solar Power System

- Solar Panel: 4950W
- AC Output : 220V/6.2kW
- Maintenance-free Gel Battery: 14400Wh
- Battery installation: external
- Installation area: about 26m²
- Package Volume: about 4m³

MAIN ACCESSORIES

Mono solar panel	41V/550W	9pcs
Hybrid Inverter	48V/6.2KW	1set
Gel battery	12V/150AH	8pcs
PV Cables	4m ²	60m
Solar Panel Racking	4950W	1set

Solar panel size: 2279*1134*35mm/pcs



9600Wh
Off-Grid All-in-One
Solar Power System

- Solar Panel: 4400W
- AC Output : 220V/6200W
- Gel battery capacity: 9600Wh
- Installation area: about 22m²
- Installation: Roof or ground
- Package Volume: about 2m³

MAIN ACCESSORIES		
Mono solar panel	41V/550W	8pcs
Inverter	48V/5.6KW	1set
Gel battery	12V/200AH	4pcs
PV Cables	6m ²	60m
Solar Panel Racking	4400W	1set
Solar panel size: 2279*1134*35mm/pcs		
Main unit size: 720x500x1050mm Weight:312kg		



28800Wh
Off-Grid All-in-One
Solar Power System

- Solar Panel: 9.9kW
- AC Output : 220V/8kW
- Gel battery capacity: 28800Wh
- Installation area: about 50m²
- Installation: Roof or ground
- Package Volume: about 4m³

MAIN ACCESSORIES		
Mono solar panel	41V/550W	18pcs
Inverter	48V/8KW	1set
Gel battery	12V/200AH	12pcs
PV Cables	6m ²	120m
Solar Panel Racking	9.9kW	1set
Solar panel size: 2279*1134*35mm/pcs		
Main unit size: 1250x670x1700mm Weight:899kg		



19200Wh
Off-Grid All-in-One
Solar Power System

- Solar Panel: 6600W
- AC Output : 220V/6KW
- Gel battery capacity: 19200Wh
- Installation area: about 35m²
- Installation: Roof or ground
- Package Volume: about 3m³

MAIN ACCESSORIES		
Mono solar panel	41V/550W	12pcs
Inverter	48V/8KW	1set
Gel battery	12V/200AH	8pcs
PV Cables	6m ²	100m
Solar Panel Racking	6600W	1set
Solar panel size: 2279*1134*35mm/pcs		
Main unit size: 705x667x1800mm Weight:593kg		



38400Wh
Off-Grid All-in-One
Solar Power System

- Solar Panel: 13.2kW
- AC Output : 220V/10KW
- Gel battery capacity: 38400Wh
- Installation area: about 45m²
- Installation: Roof or ground
- Package Volume: about 4m³

MAIN ACCESSORIES		
Mono solar panel	41V/550W	24pcs
Inverter	48V/10KW	1set
Gel battery	12V/200AH	16pcs
PV Cables	6m ²	100m
Solar Panel Racking	13.2kW	1set
Solar panel size: 2279*1134*35mm/pcs		
Main unit size: 1250x670x2020mm Weight:1208kg		



**57600Wh
Off-Grid All-in-One
Solar Power System**

- Solar Panel: 19.8kW
- AC Output : 220V/12kW
- Gel battery capacity: 57600Wh
- Installation area: about 100m²
- Installation: Roof or ground
- Package Volume: about 7m³

MAIN ACCESSORIES

Mono solar panel	41V/550W	36pcs
Inverter	48V/12KW	1set
Gel battery	12V/200AH	24pcs
PV Cables	6m ²	200m
Solar Panel Racking	19.8kW	1set

Solar panel size: 2279*1134*35mm/pcs
Main unit size: 2100x670x1700mm Weight:1666kg



**160000Wh
Off-Grid All-in-One
Solar Power System**

- Solar Panel: 57.75kW
- AC Output : 380V/30kW
- Gel battery capacity: 160KWh
- Installation area: about 300m²
- Installation: Roof or ground
- Package Volume: about 25m³

MAIN ACCESSORIES

Mono solar panel	41V/550W	105pcs
Inverter	380V/50KW	1set
Gel battery	2V/400AH	200pcs
PV Cables	6m ²	800m
Solar Panel Racking	57.75kW	1set

Solar panel size: 2279*1134*35mm/pcs



**76800Wh
Off-Grid All-in-One
Solar Power System**

- Solar Panel: 26.4kW
- AC Output : 220V/20KW
- Gel battery capacity: 76800Wh
- Installation area: about 150m²
- Installation: Roof or ground
- Package Volume: about 10m³

MAIN ACCESSORIES

Mono solar panel	41V/550W	48pcs
Inverter	48V/20KW	1set
Gel battery	12V/200AH	32pcs
PV Cables	6m ²	300m
Solar Panel Racking	26.4kW	1set

Solar panel size: 2279*1134*35mm/pcs
Main unit size: 2100x670x2020mm Weight:2197kg



**240000Wh
Off-Grid All-in-One
Solar Power System**

- Solar Panel: 115.5kW
- AC Output : 380V/50kW
- Gel battery capacity: 240KWh
- Installation area: about 600m²
- Installation: Roof or ground
- Package Volume: about 50m³

MAIN ACCESSORIES

Mono solar panel	41V/550W	210pcs
Inverter	380V/50KW	1set
Gel battery	2V/600AH	200pcs
PV Cables	6m ²	1600m
Solar Panel Racking	115.5kW	1set

Solar panel size: 2279*1134*35mm/pcs