



2026

POWERINGEV ENERGY STORAGE

BROCHURE

• 1kWh • 2kWh • 5kWh • 15kWh

ABOUT US

Shenzhen PoweringEV Technology Co., Ltd., established in 2018 and located in Shenzhen, is a leading developer and supplier of industrial power products. We specialize in residential energy storage products and 5G power solutions. Our product portfolio includes inverters, portable energy storage devices, high IP-rated 5G power systems, and other residential energy storage solutions.

Our core R&D team consists of experienced professionals with over a decade of expertise from top global enterprises. We are dedicated to developing advanced power electronics and communication technologies. By leveraging our extensive knowledge and cutting-edge innovations, we deliver power products with high IP levels, efficient thermal management, superior conversion efficiency, and exceptional reliability.

Guided by customer needs and market trends, PoweringEV is committed to becoming a high-tech leader in the industry, providing comprehensive solutions for all power product requirements.



Residential Energy
Storage System



Portable Energy
Storage Solution

Product



Residential Energy Storage



Outdoor Applications



Small Commercial Use

Applications



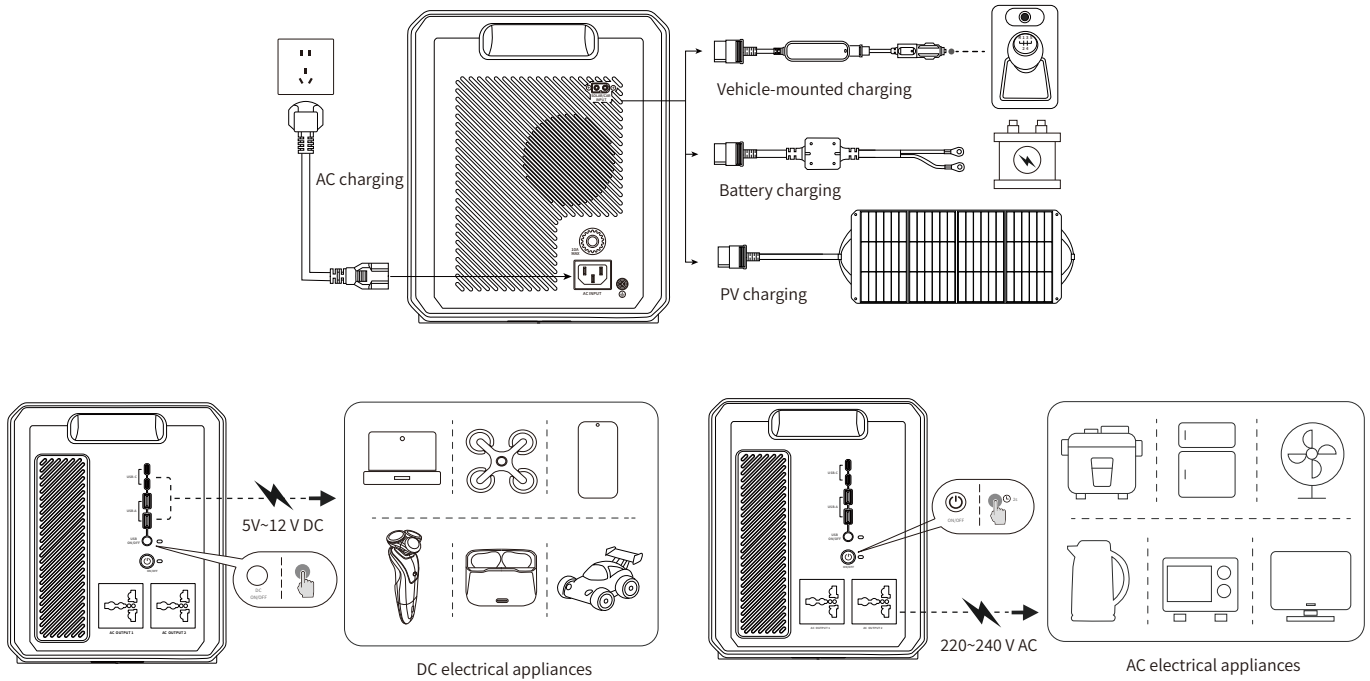
PORTABLE ENERGY STORAGE

2000Wh/3.2V

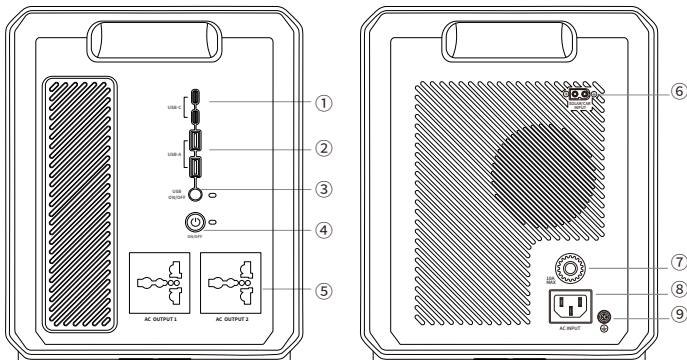
ESSLP-02F-01K

PRODUCT INTRODUCTION (ESSLP-02F-01K)

Product Usage Diagram



Panel Function Introduction



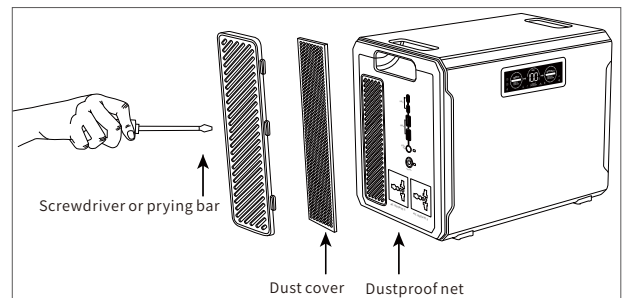
Project	Function description	Project	Function description
1	USB-C output x2	6	PV and vehicle charging input ports x1
2	USB-A output x2	7	AC breaker
3	USB power switch	8	AC input
4	Power switch	9	Ground terminal port x1
5	AC output x2		

Cleanable Dust-proof Net (Outdoor-friendly Design)

This power station features a non-locked, quick-release dust filter, allowing users to disassemble and clean the filter without specialized tools — ideal for use in high-dust outdoor environments.

Disassembly & Cleaning Instructions:

1. Ensure the device is powered off.
2. Use a screwdriver or a pry bar to gently pry open the panel, then take out the dust cover and filter.
3. Clean the filter; if washed, air-dry thoroughly to remove all moisture before reinstallation.



PRODUCT ADVANTAGES (ESSLP-02F-01K)

Pure Sine Wave Output

The AC outlets deliver pure sine wave output with high inverter efficiency, offering stable, reliable power identical to grid electricity that will not damage sensitive electronics.



✓ Pure sine wave current

✓ Modified sine wave current

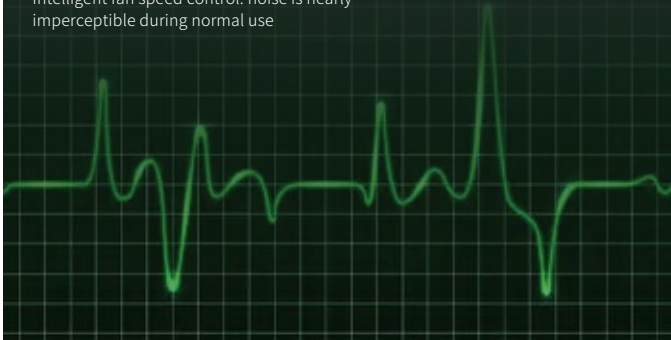


0.01-Second UPS

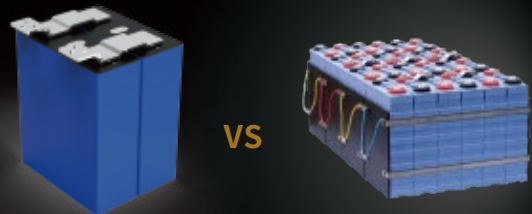
No more life or work interruptions from power cuts

Silent Black Technology

Intelligent fan speed control: noise is nearly imperceptible during normal use



Large Cells = Big Safety & Big Savings



Large-Format LiFePO4 Cells

- ✓ Fewer connections = Safer
- ✓ 8,000+ cycles = Longer life
- ✓ Lower maintenance = Better value

Small-Cell Design

- ✗ More connections = Higher risk
- ✗ 4,000+ cycles = Shorter lifespan
- ✗ Higher long-term costs

Intelligent BMS

BMS intelligent battery management system, offering 12 layers of intelligent protection



Lightest In Its Class

Lightest 2kwh power station 15kg ultra-lightweight, One-hand carry compact size, trunk-friendly



Supported Appliance Runtime & Usage Scenarios

Long-Distance Road Trip

≈ 2.3time
Kettle 850W ≈ 33h Car refrigerator 60W ≈ 2.5h Electric cooker 800W

Emergency Backup

≈ 20h Lighting 100W ≈ 6.6h Electric demolition tools 300W ≈ 10h Portable base station 200W

Content Creation

≈ 20time Battery 99W ≈ 6.6h Backlight lamp 300W ≈ 2.5h Mechanical arm 800W

Home Power Backup

≈ 25h Home ventilator 80W ≈ 10h Laptop computer 200W ≈ 20h Inflator pump 100W

EXAMPLES



TECHNICAL SPECIFICATIONS

Basic specifications

Product model	ESSLP-02F-01K
Net weight	15kg
Size	325X220X265mm
Capacity	2000Wh(3.2V)
Certification standards	ROHS

Output

AC output pure sine wave(x2)	1000W Max, 220VAC(50Hz)
Type-C output (x2)	5VDC、9VDC、12VDC、2.4A、22.5W Max
USB-A fast charging (x2)	5VDC、9VDC、12VDC、2.4A、22.5W Max

Input

AC charging input voltage (normal)	220-240VAC(50Hz/60Hz)
AC charging input power	500W Max
Solar charging input	10~60VDC 20A Max 500W Max
Solar input power	500W Max
MPPT function	Support
Vehicle charging input	13.2VDC 20A Max

Battery

Battery type	LiFePO4 battery
Discharging temperature	-4°F~140°F±5°F (-20°C~60°C±3°C)
Charging temperature	32°F~113°F±5°F (0°C~45°C±3°C)
Cycle life	After 8,000 cycles, the remaining capacity still exceeds 80%

1000Wh/3.2V

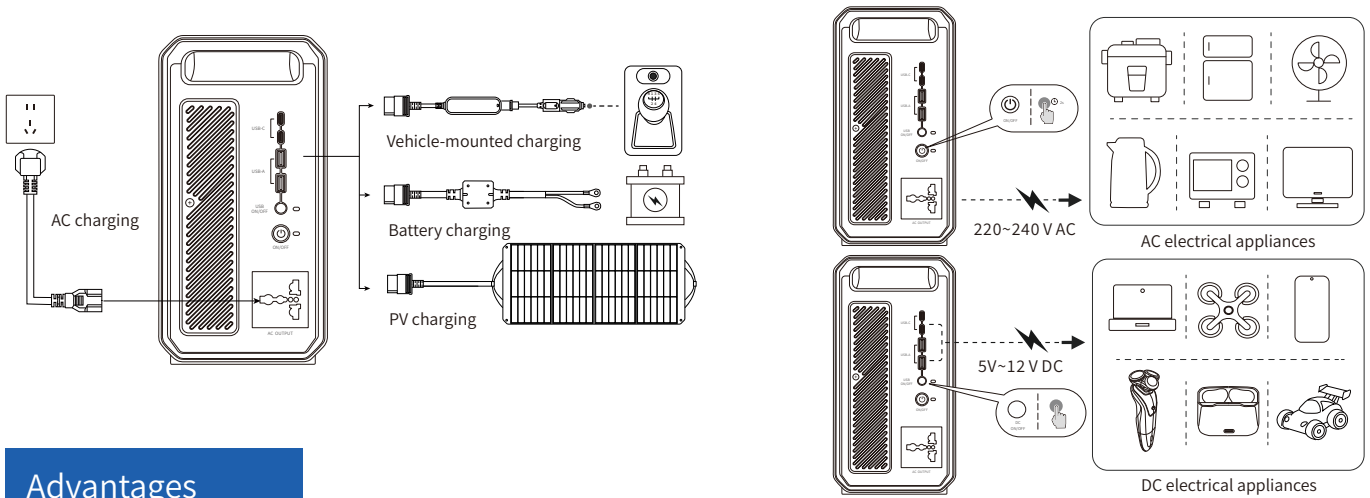
PORTABLE ENERGY STORAGE

ESSLP-01F-01K



PRODUCT INTRODUCTION (ESSLP-01F-01K)

Product Usage Diagram



Advantages



≥8000 cycles



AC (Grid) Charging
Solar Charging
12V Car Charging

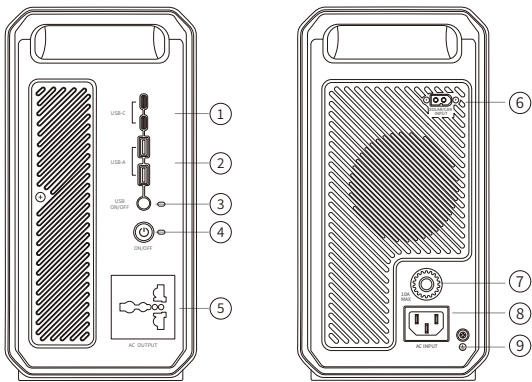


High security



Lightweight
and portable

Panel Function Introduction



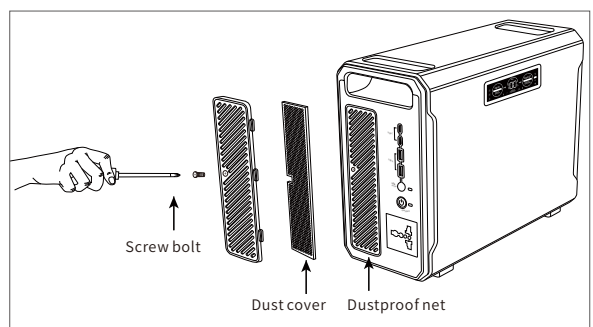
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3	USB power switch	8	AC input
4	Power switch	9	Ground terminal port x1
5	AC output x1		

Cleanable Dust-proof Net (Outdoor-friendly Design)

This power station features a non-locked, quick-release dust filter, allowing users to disassemble and clean the filter without specialized tools — ideal for use in high-dust outdoor environments.

Disassembly & Cleaning Instructions:

1. Ensure the device is powered off.
2. Remove the screw at the air outlet, then take out the dust cover and filter.
3. Clean the filter; if washed, air-dry thoroughly to remove all moisture before reinstallation.



EXAMPLES



TECHNICAL SPECIFICATIONS

Basic specifications

Product model	ESSLP-01F-01K
Net weight	8.5kg
Size	325X140X265mm
Capacity	1000Wh(3.2V)
Certification standards	ROHS

Output

AC output pure sine wave(x1)	1000W Max, 220VAC(50Hz)
Type-C output (x2)	5VDC、9VDC、12VDC、2.4A、22.5W Max
USB-A fast charging (x2)	5VDC、9VDC、12VDC、2.4A、22.5W Max

Input

AC charging input voltage (normal)	220-240VAC(50Hz/60Hz)
AC charging input power	500W Max
Solar charging input	10~60VDC 20A Max 500W Max
Solar input power	500W Max
MPPT function	Support
Vehicle charging input	13.2VDC 20A Max

Battery

Battery type	LiFePO4 battery
Discharging temperature	-4°F~140°F±5°F (-20°C~60°C±3°C)
Charging temperature	32°F~113°F±5°F (0°C~45°C±3°C)
Cycle life	After 8,000 cycles, the remaining capacity still exceeds 80%

COLOR OPTIONS



Orange



Green



Blue



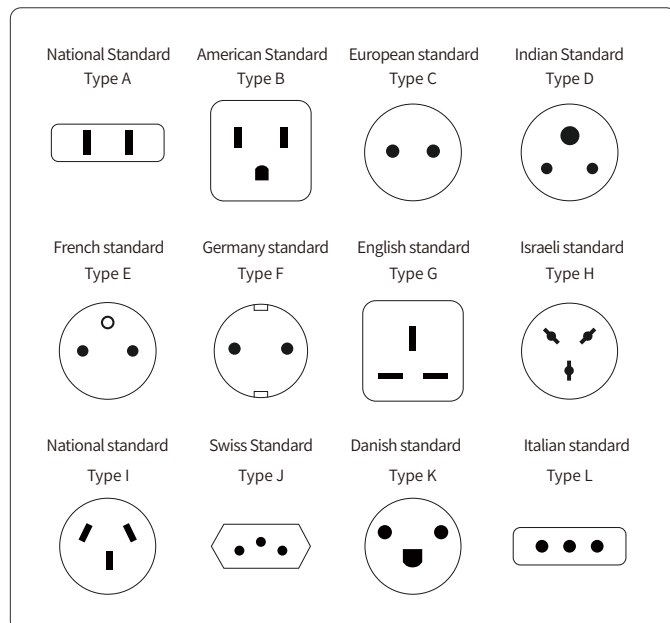
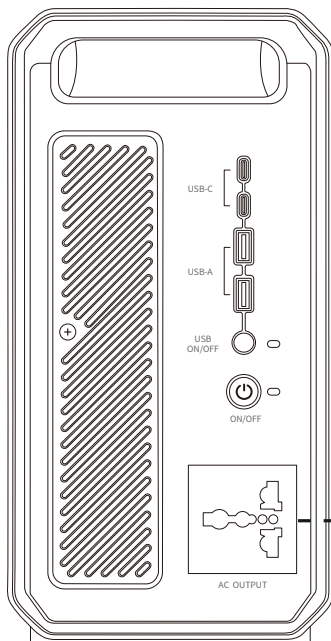
Light blue





Black

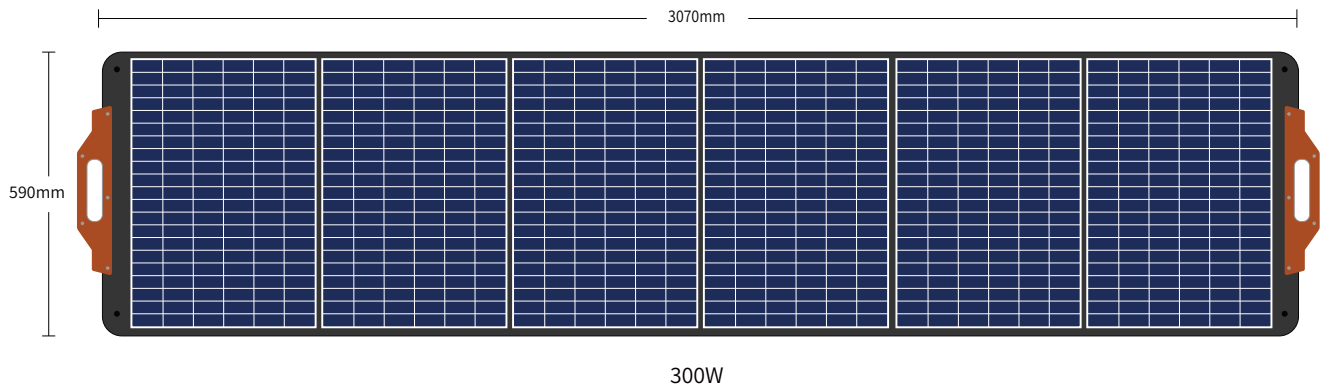
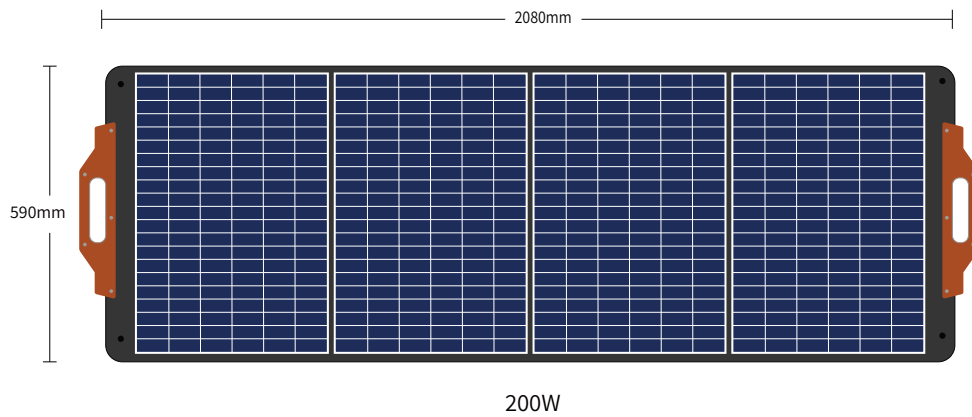


SOCKET OPTIONS



OPTIONAL FOLDING PORTABLE MONOCRYSTALLINE SOLAR PANEL

Project	Solar-1	Solar-2
Power	200W	300W
Open circuit voltage	18 VDC	18 VDC
Dimensions (W* D* H)	2080*590*30(mm)	3070*590*30(mm)
Hybrid Circuit	Quantity (Solar-1)	Quantity (Solar-2)
Series connection 	2 pcs	2 pcs
Parallel connection 	2x2 pcs	2x2 pcs



15000Wh/51.2V

ALL-IN-ONE

Residential Energy Storage

ESSHP-2A-15K



HIGH AC VOLTAGE BATTERY MODULE (ESSHP-2A-15K)



Advantages



≥8000 cycles



Heavy load



High security



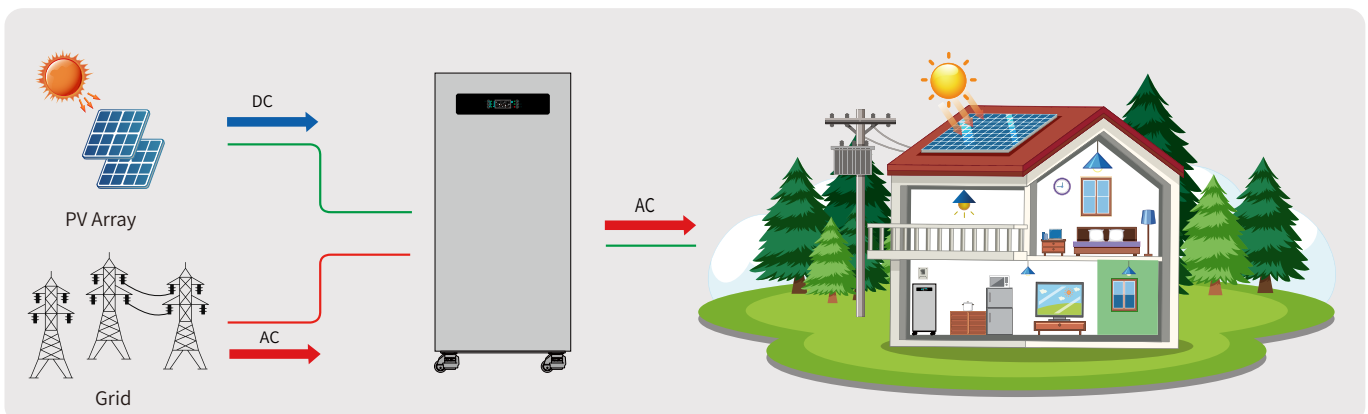
Fast charging / discharging

High-voltage AC Battery Module with 10kW Solar Inverter and 15kWh Lithium Battery



- ◆ Pure sine wave output
- ◆ Built-in Wi-Fi and BLE for mobile monitoring (Android / iOS app is available, optional components)
- ◆ Configurable AC/PV output with timer and priority settings
- ◆ Adjustable high charging current
- ◆ Wide/adjustable input voltage range (compatible with UPS & household appliances)
- ◆ Compatible with both grid and generator input
- ◆ Built-in anti-dust kit
- ◆ Lithium iron phosphate (LFP) cell battery

System Diagram



PRODUCT MODEL	ESSHP-2A-15K
INVERTER	
Rated output power	10000VA/10000W
AC voltage regulation (battery mode)	230VAC \pm 5%
Peak output power	20000VA
Efficiency (peak)	93%
Waveform	Pure sine wave
Voltage	230VAC
Optional voltage range	170-280VAC(UPS model) 90-280VAC(Home Appliance Mode)
Frequency range	50Hz/60Hz(Automatic Sensing)
Solar charger type	MPPT
Maximum PV array power	5000W x2
Maximum PV array current	18A x2
MPPT operating voltage range	120-430 VDC
Maximum PV array open circuit voltage	450VDC
Maximum solar charging current	160A
Maximum AC charging current	160A
Maximum charging current	160A
BATTERY TYPE	
Battery capacity	15000Wh
Rated voltage	51.2VDC
Fully charged charging voltage (FC)	57.6V
Fully discharged voltage (FD)	42V(Configuration)
Standard capacity	300Ah
Continuous discharge current(Max)	150A
Discharge current (Max)	400A at 1min
Charging voltage	56V
Charging current	160A
Maximum charging current	160A
Standard charge current	0.5C CC (Constant current) charge to FC. CV(Constant voltage FC) charge till charge current decline to <0.05C
Battery mode inverter power	10kW Max
Product size	500X255X1050mm
Product weight	130kg

5120Wh/51.2V

ALL-IN-ONE

Residential Energy Storage

ESSHP-1A-5K



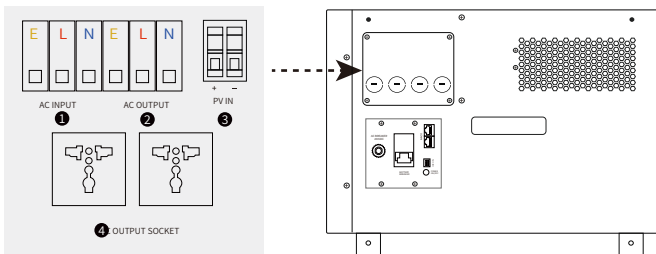
HIGH AC VOLTAGE BATTERY MODULE (ESSHP-1A-5K)



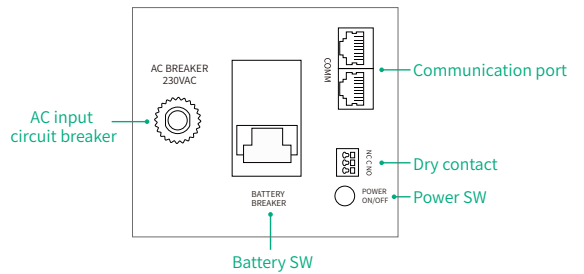
Advantages

-  ≥ 8000 cycles
-  Heavy load
-  High security
-  Parallel 3 units

I/P and O/P Connection

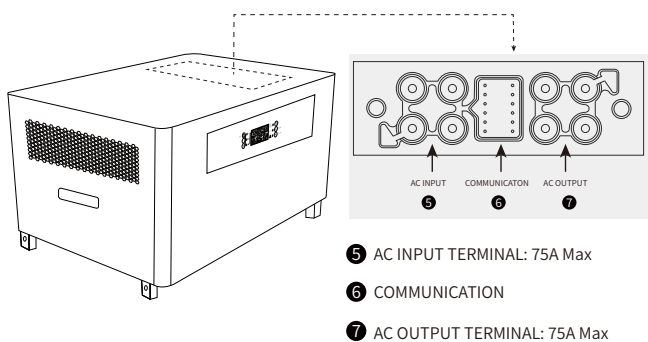


- 1 AC INPUT TERMINAL: 125A Max
- 2 AC OUTPUT TERMINAL: 125A Max
- 3 PV INPUT : 50A Max
- 4 AC OUTPUT SOCKET




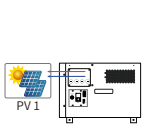
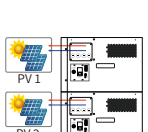
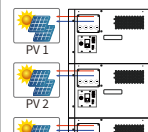


03

Parallel connection between modules





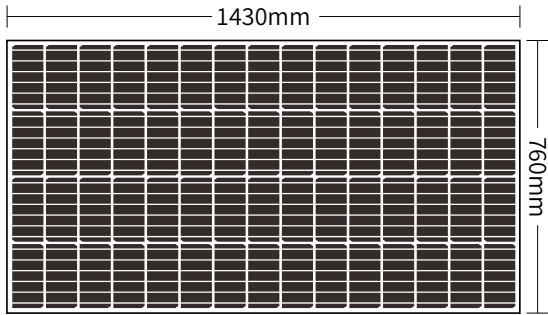
- 5 AC INPUT TERMINAL: 75A Max
- 6 COMMUNICATION
- 7 AC OUTPUT TERMINAL: 75A Max

Battery 5120wh/51.2V- stackable parallel function			
Inverter	5KW	10KW	15KW
Battery capacity	5120Wh	10240Wh	15360Wh
Product image			
PV connection method			
PV connection			

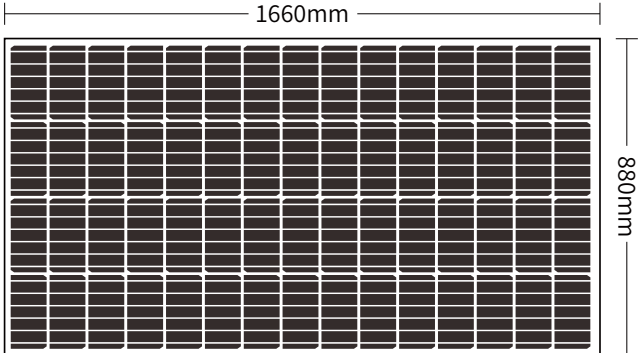
PRODUCT MODEL	ESSHP-1A-5K
INVERTER	
Rated output power	5000VA/5000W
AC voltage regulation (battery mode)	230VAC \pm 5%
Peak output power	10000VA
Efficiency (peak)	93%
Waveform	Pure sine wave
Voltage	230VAC
Optional voltage range	170-280VAC(UPS model) 90-280VAC(home appliance mode)
Frequency range	50Hz/60Hz(automatic sensing)
Solar charger type	MPPT
Maximum PV array power	5000W
Maximum PV array current	18A
MPPT operating voltage range	120-430 VDC
Maximum PV array open circuit voltage	450VDC
Maximum solar charging current	80A
Maximum AC charging current	100A
Maximum charging current	80A
BATTERY TYPE	
Battery capacity	5120Wh
Rated voltage	51.2VDC
Fully charged charging voltage (FC)	57.6V
Fully discharged voltage (FD)	42V(Configuration)
Standard capacity	100Ah
Continuous discharge current(Max)	150A
Discharge current (Max)	200A at 1min
Charging voltage	56V
Charging current	50A
Maximum charging current	100A
Standard charge current	0.5C CC (Constant current) charge to FC. CV(Constant voltage FC) charge till charge current decline to <0.05C
Battery mode inverter power	3.5kW
Product size	525x365x260mm
Product weight	55kg

SOLAR PANELS ARE OPTIONAL

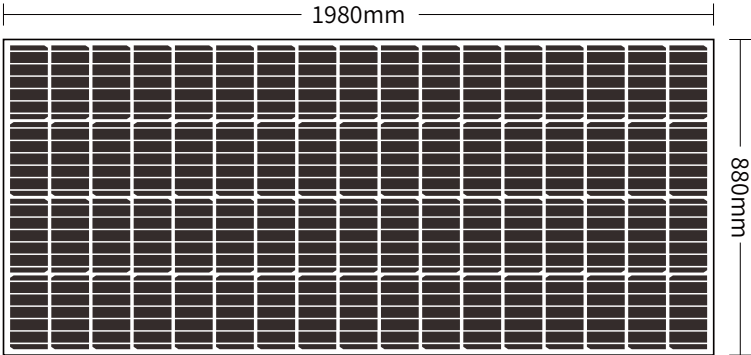
Project	Solar-1	Solar-2	Solar-3
Power	245W	330W	390W
Open circuit voltage	34.8 VDC	34.8 VDC	41.76 VDC
Dimensions (W* D* H)	1430*760*3025(mm)	1660*880*3025(mm)	1980*880*3025(mm)
Hybrid Circuit	Quantity (Solar-1)	Quantity (Solar-2)	Quantity (Solar-3)
Series connection 	12 pcs	12 pcs	12 pcs
Parallel connection 	2x10 pcs	2x7 pcs	2x6 pcs



Solar-1

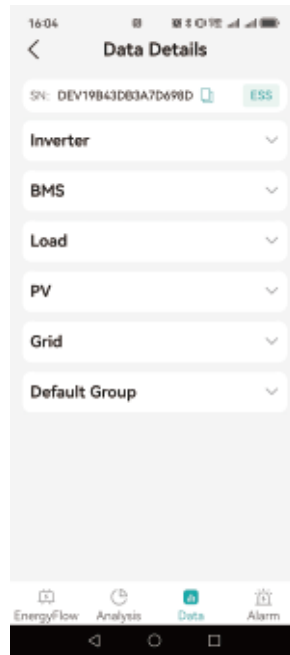
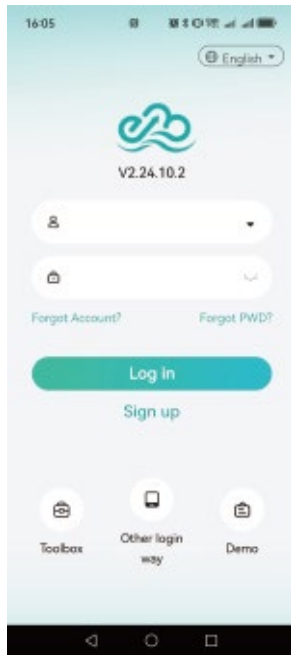


Solar-2



Solar-3

EMS APP



iOS APP



Android APP

EXAMPLES





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