





R&D and sales center

ABOUT US

COMPANY PROFILE >>>>>

We have a research and development team composed of senior industry experts and professional technical personnel, and continue to invest a lot of resources in technological innovation, so far we have more than 800 patented technologies.

The company has established a modern production base, covering an area of 61,000 square meters, equipped with a number of advanced automated production lines, introducing the world's leading production equipment and testing instruments, every link strictly follows the ISO9001 quality management system standards, to ensure the reliability and consistency of product quality.

The company's products cover a variety of types and specifications of lithium batteries, battery pack all-in-one machines, widely used in household electricity, outdoor energy storage, new energy vehicles, energy storage systems, power tools, smart wearable devices, medical equipment and other fields. The products are sold well in the domestic market, and exported to Africa, Asia Pacific, the Middle East, Europe and America and other countries and regions.

In terms of service, the company has built a perfect pre-sale, sales and after-sales service system to provide customers with a full range of solutions and technical support.

Industry Experience
20⁺ yrs

Patents
800⁺ sum

Team Members
1000⁺ people

Installation Case
100⁺ countries or regions

Corporate Mission



Committed to become a global leading supplier of energy equipment and system solutions

Corporate Vision



Pursue the material and spiritual happiness of all partners

Core Values



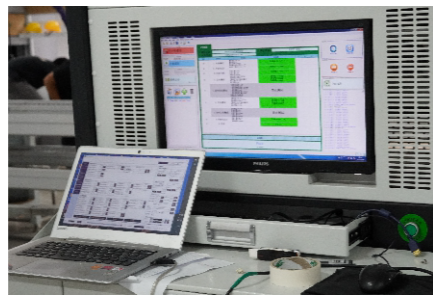
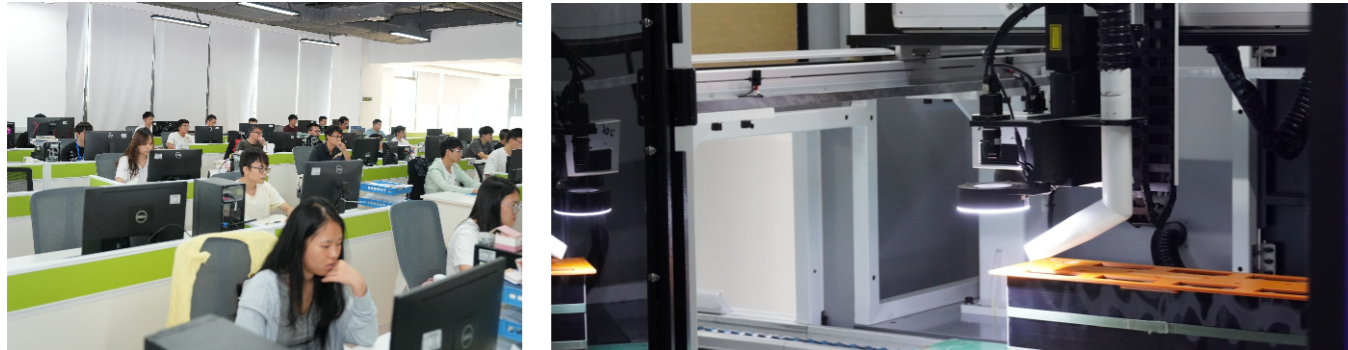
University, effort, modesty, introspection, gratitude, altruism, optimism, innovation

Enterprise Spirit



Swift and resolute, truly practical and diligent

FACTORY >>>>



CAREFULLY CRAFTED

ABUNDANT INVENTORY



EXQUISITE WORKMANSHIP



CORE ADVANTAGES >>>>

MES System

Increase product traceability and monitor product quality throughout the entire process

Complete Processing Technology

Reduce outsourcing quality risks and meet the needs of customers in the photovoltaic industry

ONE STOP SERVICE

Provide one-stop services from complete machine production to overall design solutions for customers in the photovoltaic industry

High Quality Partners

Strategic cooperation with top equipment and material suppliers both domestically and internationally

Experienced R&D Team

More than 50 professional technical talents with over 20 years of experience in the photovoltaic industry have been dedicated to R&D and manufacturing for 20 years

Intelligent Manufacturing Enterprise

Production efficiency increased by 30%
Artificial reduction of 50%
Scrap reduced by 40%



LITHIUM BATTERY

EB SERIES



25.6V 100AH

25.6V 200AH
51.2V 100AH

PAGE:11-12

EB PLUS SERIES



51.2V 200AH

51.2V 300AH

PAGE:13-14

ENERGY STORAGE SYSTEM

ESSM SERIES



1KW/1.5KW

PAGE:15-16



4.2KW/6.2KW

PAGE:17-20

ENERGY STORAGE SYSTEM

ESS SERIES



4.2KW / 6.2KW

PAGE:21-24



8.2KW / 10.2KW

PAGE:25-28

ENERGY STORAGE SYSTEM

ESS PLUS SERIES



4.2KW/6.2KW

PAGE:29-32

PORTABLE POWER STATION

ESP SERIES



300W/500W

1000W

PAGE:33-36

Wall Mounted Lithium Battery

EB SERIES

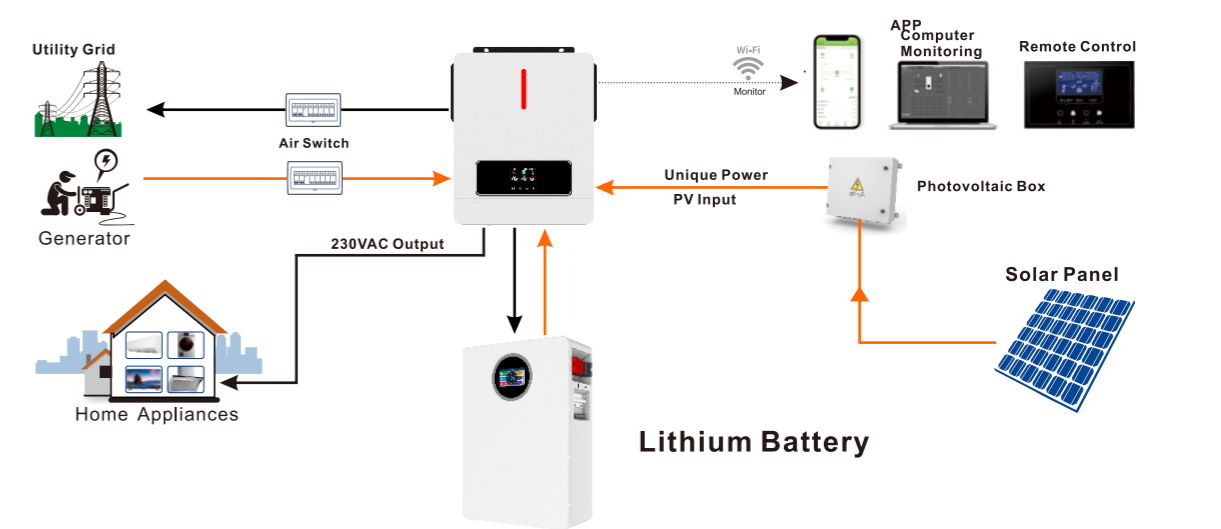
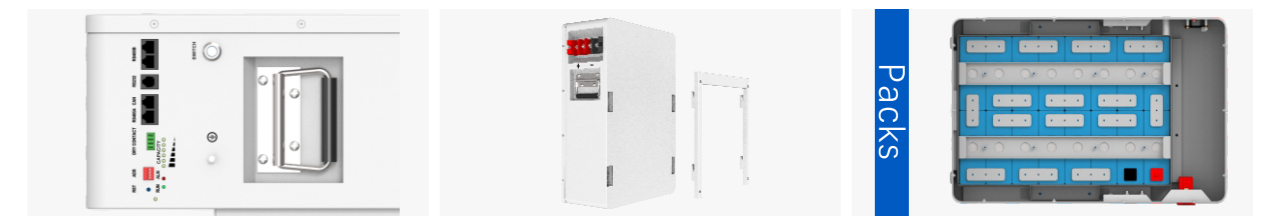
- Using safe and eco-friendly LiFePO4 battery, with MSDS, UN38.3, ROHS, IEC62619, UL
- Equipped with BMS Battery management system to intelligently manage and maintain each battery unit
- Support for up to 16 batteries in parallel
- 6000+ Cycle Life, intelligent balance
- Quality of vehicle specification, high quality battery
- Low power and no relay design, milliwatt standby loss
- The safest, environmentally friendly Lithium ion Phosphate technology
- Higher energy density and efficiency
- REPT Focusing on the layout of the whole industrial chain of advanced lithium battery key materials, batteries battery management and system integration, it has core technology intellectual property rights

- Multiple Modes Of Operation
- Customized Logo
- Multiple Shell Colors
- Customized Capacity



BATTERY	25.6V 100AH	25.6V 200AH	25.6V 314AH	51.2V 100AH
Rated Voltage	25.6V			51.2V
Rated Capacity	100Ah	200Ah	314Ah	100Ah
Rated Energy	2.56kWh	5.12kWh	8.03kWh	5.12kWh
Output Voltage Range	21.6V~29.2V			43.2V~58.4V
Charging Voltage	28.8~29.2V			57.6~58.4V
Cut-off Voltage	21.6V			43.2V
Max.Charging Current	100A			
Recommended Charging Current	50A			
Max.Discharging Current	100A			
Efficiency	98%			
Dimension H*W*D(mm)	410*300*185	550*370*185	550*370*235	550*370*185
Carton Dimension,H*W*D(mm)	530*395*235	630*460*235	620*440*310	630*460*235
Net Weight(kg)	25	45	62	45
Gross Weight(kg)	26.5	47	62	47
Humidity	5%~95%Relative humidity			
Charging Temperature	-20°C~65°C			
Discharging Temperature	-20°C~60°C			
Storage Temperature	-10°C~50°C			
Cycle Life	>6000 times(0.2C,@25 °C,80%DOD)			
Design Life	>10 years			
Operating Mode	Touchable Screen			

DETAILS SYSTEM DIAGRAM



Wheel-Mounted Lithium Battery

EB-PLUS SERIES

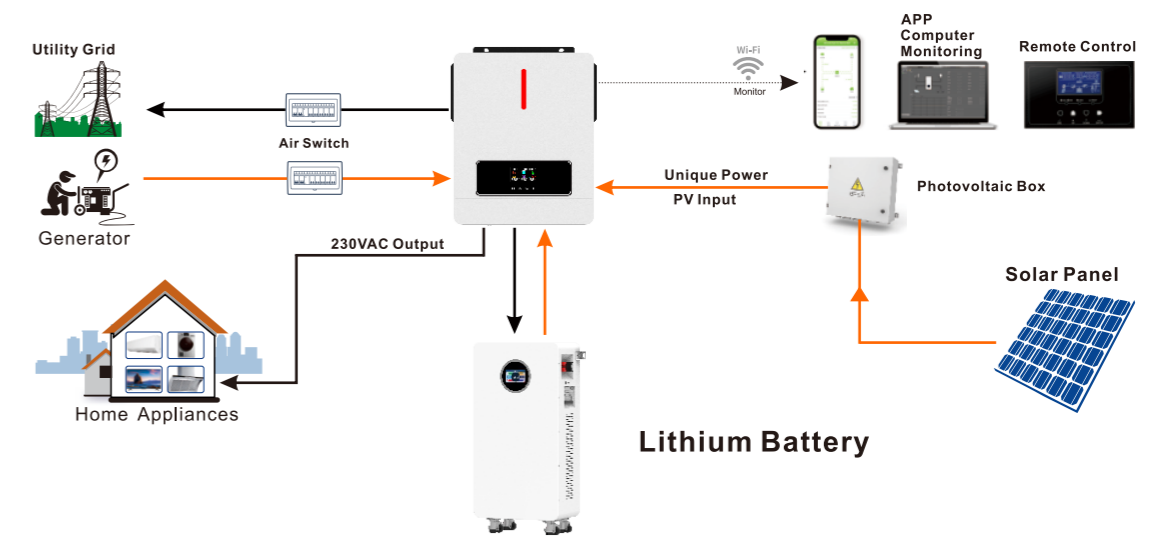
- Using safe and eco-friendly LiFePO4 battery, with MSDS, UN38.3, ROHS, IEC62619, UL
- Support for up to 16 batteries in parallel
- Quality of vehicle specification, high quality battery
- The safest, environmentally friendly Lithium ion Phosphate technology
- REPT Focusing on the layout of the whole industrial chain of advanced lithium battery key materials, batteries battery management and system integration, it has core technology intellectual property rights
- Equipped with BMS Battery management system to intelligently manage and maintain each battery unit
- 6000+ Cycle Life, intelligent balance
- Low power and no relay design, milliwatt standby loss
- Higher energy density and efficiency

- Multiple Modes Of Operation
- Customized Logo
- Multiple Shell Colors
- Customized Capacity






BATTERY				
MODEL	51.2V 200AH		51.2V 300AH	
Rated Voltage	51.2V			
Rated Capacity	200Ah	280Ah	300Ah	314Ah
Rated Energy	10.24kWh	14.34kWh	15.36kWh	16.08kWh
Output Voltage Range	43.2V~58.4V			
Charging Voltage	57.6~58.4V			
Cut-off Voltage	43.2V			
Max.Charging Current	200A			200A
Recommended Charging Current	50A			50A
Max.Discharging Current	200A			200A
Efficiency	98%			
Dimension H*W*D(mm)	750*415*235		895*415*235	
Carton Dimension,H*W*D(mm)	760*505*420		980*495*440	
Net Weight(kg)	89	115	120	125
Gross Weight(kg)	115	135	142	145
Humidity	5%~95%Relative humidity			
Charging Temperature	-20°C~65°C			
Discharging Temperature	-20°C~60°C			
Storage Temperature	-10°C~50°C			
Cycle Life	>6000 times(0.2C,@25 °C,80%DOD)			
Design Life	>10 years			
Operating Mode	Press Button		Touchable Screen	

DETAILS SYSTEM DIAGRAM



Energy Storage System

ESSM SERIES

-  Integrated design
-  Receptacle
-  Handles
-  Universal wheel
-  BMS protection
-  Pure sine wave solar inverter
-  Built-in 40A MPPT solar charger
-  Built-in Lithium battery automatic activation
-  PV input voltage range 20~150VDC (for 1000W) 30~150VDC (for 1500W)
-  Built-in anti-dust kit for harsh environment
-  Smart battery charge design to optimize battery life
-  Meet rich customized demands
-  Solar energy is provided directly to the load first
-  Constant voltage technology protects the circuit

-  Multiple Modes Of Operation
-  Customized Logo
-  Multiple Shell Colors
-  Customized Capacity



INVERTER		
MODEL	ESSM-1.0KW-100AH	ESSM-1.5KW-100AH
Rate Power	1000W/1000VA	1500W/1500VA
AC INPUT		
Voltage	230VAC	
Selectable Voltage Range	170~280VAC(For Personal Computers) 90~280VAC(For Home Appliances)	
Frequency Range	50 Hz/60Hz(Auto sensing)	
AC OUTPUT		
AC Voltage Regulation	230VAC±5%	
Surge Power	2000VA	3000VA
Efficiency(Peak)PV to INV	98%	
Efficiency(Peak)Battery to INV	94%	
Transfer Time	10ms	
BATTERY		
Battery Voltage	12VDC	24VDC
Floating Charge Voltage	13.5VDC	27VDC
Overcharge Protection	16VDC	32VDC
SOLAR CHARGER&AC CHARGER		
Solar Charger Type	MPPT	
Maximum PVArray Power	600W	1200W
MPPT Range @Operating Voltage	20~150VDC	30~150VDC
Maximum PVArray Open Circuit Voltage Solar	150VDC	
Maximum Solar Charge Current	40A	
Maximum AC Charge Current	40A	
Maximum Solar+AC Charging Current	80A	

BATTERY		
MODEL	12.8V100AH	25.6V100AH
Normal Charging Coltage	14.2V	29.2V
Maximum Charging Current	100A	100A
Discharge Termination Voltage	9.2V	20V
Recommended Discharge Termination Voltage	10V	22.4V
Maximum Discharge Current	100A	100A
Single Cell Charging Over Voltage Protection	3.75V	3.65A
Over Voltage Protection For The Whole Battery	15V	29.2V
Low Voltage Protection For Single Cell Discharge	2.3V	2.5V
Low voltage protection for whole group discharge	10V	20V
Charge Over Current Protection	110A	
Discharge Over Current Protection	110A	
BMS Features	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	
Working Temperature	-20°C~65°C	
Storage Temperature	-10°C~50°C	

PHYSICAL		
Dimension,H*W*D(mm)	491*320*140	546*360*140
Carton Dimension,H*W*D(mm)	570*390*230	625*430*230
Net Weight(kg)	17.3	32.3
Gross Weight(kg)	19.2	34.5

ENVIRONMENT	
Humidity	5%to 95%Relative Humidity(Non-condensing)

STANDARD	
Compliance Safety	CE UN38.3:MSDS

Energy Storage System

ESSM SERIES

- Integrated design
- Receptacle
- RGB light
- Universal wheel
- BMS protection
- Pure sine wave solar inverter(on/off Grid)
- Built-in 120A MPPT Solar charge max6200W(for 4.2kW);max6500W(for 6.2kW)
- Built-in Lithium battery automatic activation
- High PV input voltage range(60~500VDC)
- Built-in anti-dust kit for harsh environment
- WIFI&GPRS available for IOS and Android
- One-key restoration to factory Settings
- Dual output
- Constant voltage technology protects the circuit

- Multiple Modes Of Operation
- Customized Logo
- Multiple Shell Colors
- Customized Capacity



INVERTER

MODEL	ESSM-4.2KW-100AH/200AH	ESSM-6.2KW-100AH
Phase		
Maximum PV Input Power	6200W	6500W
Rated Output Power	4200W/4200VA	6200W/6200VA
Maximum Solar Charging Current	120A	

GRID-TIE OPERATION

PV INPUT(DC)

Nominal DC Voltage/Maximum DC Voltage	360/500VDC	
Start-up Voltage/Initial Feeding Voltage	60VDC/90VDC	
MPPT Voltage Range	60~450VDC	
Maximum Input Current	1/18A	1/22A

GRID OUTPUT(AC)

Nominal Output Voltage	220/230/240VAC	
Output Voltage Range	195~253VAC	
Nominal Output Current	18.2A	27.0A
Power Factor	>0.99	

EFFICIENCY

Maximum Conversion Efficiency(DC/AC)	98%	
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TWO LOAD OUTPUT POWER

FullLoad	4200W	6200W
Maximum Main Load	4200W	6200W
Second Load Range	1400W	2067W
Maximum Load Cut OffVoltage	26VDC	52VDC
Maximum Load Return Voltage	27VDC	54VDC

OFF-GRID OPERATION

AC INPUT

AC Start-up Voltage/Auto Restart Voltage	120-140VAC/180VAC	
Acceptable Input Voltage Range	90~280VAC or 170~280VAC	
Frequency Range	49~51±1Hz	
MaximumAC Input Current	24.7A	36.4A

PV INPUT(DC)

Nominal DC Voltage/Maximum DC Voltage	360/500VDC	
MPPT Voltage Range	60~450VDC	
Maximum Input Current	1/18A	1/22A

BATTERY MODE OUTPUT(AC)

Nominal Output Voltage	220/230/240VAC	
Output Wave Form	Pure sine wave	
Efficiency(DC to AC)	94%	

BATTERY&CHARGER

Nominal DC Voltage	24VDC	48VDC
Maximum Solar Charging Current	120A	140A
MaximumAC Charging Current	100A	100A
Maximum Solar+AC Charging Current	120A	140A

HYBRID OPERATION

PV INPUT(DC)

Nominal DC Voltage/Maximum DC Voltage	360/500VDC	
Start-up Voltage/Initial Feeding Voltage	90VDC/120VDC	
MPPT Voltage Range	60~450VDC	
Maximum Input Current	1/18A	1/22A

GRID OUTPUT(AC)

Nominal Output Voltage	220/230/240VAC	
Output Voltage Range	195~253VAC	
Nominal Output Current	18.2A	27.0A

AC INPUT

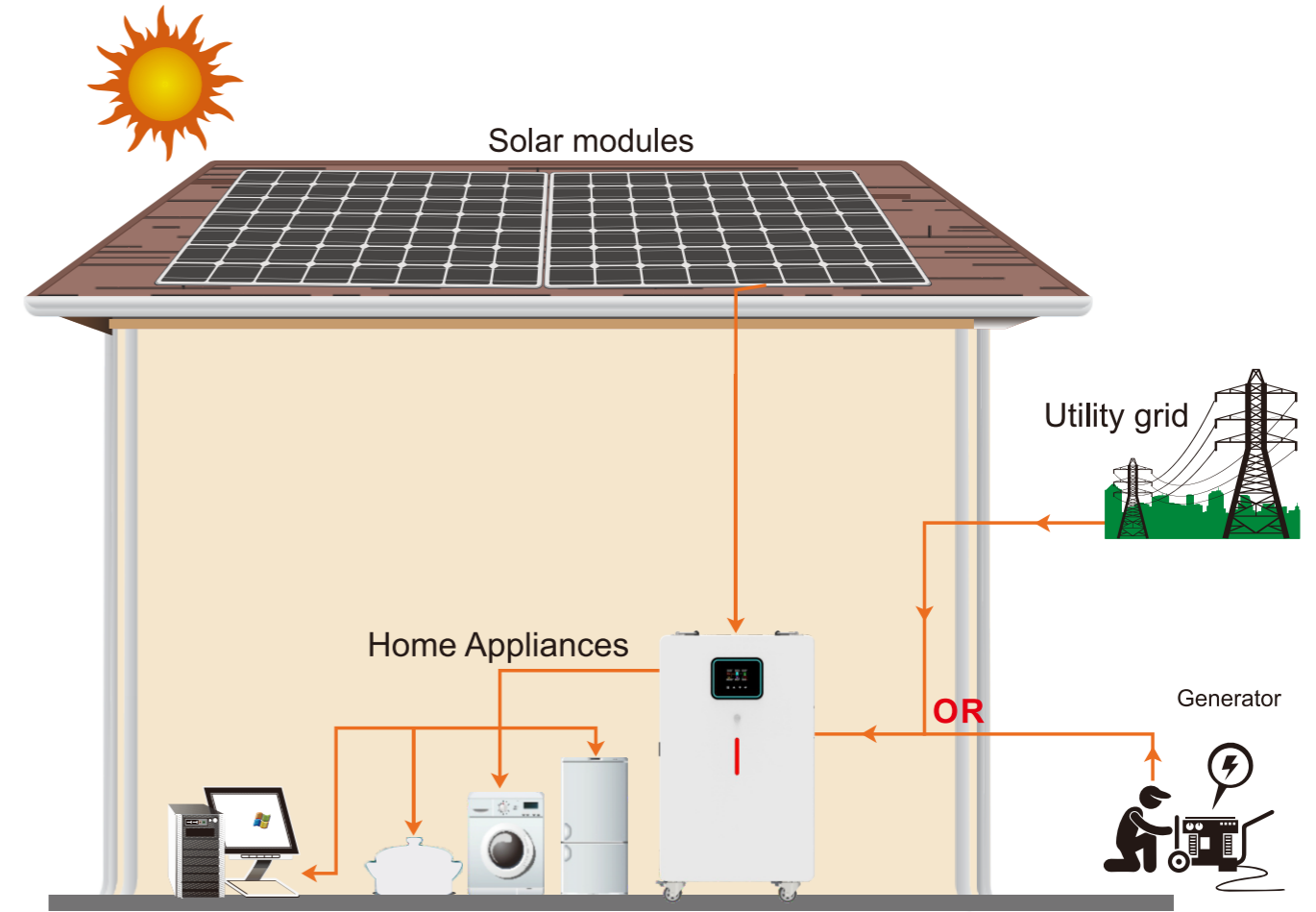
AC Start-up Voltage/Auto Restart Voltage	120-140VAC/180VAC	
Acceptable Input Voltage Range	90~280VAC or 170~280VAC	
MaximumAC Input Current	24.7A	36.4A
Maximum Charging Current	100A	

BATTERY			
MODEL	ESSM - 4.2KW-100AH/200AH		ESSM - 6.2KW-100AH
	25.6V 100AH	25.6V 200AH	51.2V100AH
Normal charging voltage	29.2V	29.2V	54.75V
Maximum charging current	100A(Recommended)	100A/200A	100A(Recommended)
Discharge termination voltage	20V	(Recommended 100A) 20V	37.5V
Recommended discharge termination voltage	22.4V	22.4V	42V
Maximum discharge current	100A	100A/200A	100A
Single cell charging over voltage protection	3.65V	3.65V	3.65V
Over voltage protection for the whole battery	29.2V	29.2V	54.75V
Low voltage protection for single cell discharge	2.5V	2.5V	2.5V
Low voltage protection for whole group discharge	20V	20V	37.5V
Charge over current protection	110A	110A/220A	110A
Discharge over current protection	110A	110A/220A	110A
BMS Features	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		
Working temperature	-20°C~65°C		
Storage temperature	-10°C~50°C		
GENERAL			
PHYSICAL			
Dimension,H*W*D(mm)	780*440*230		
Carton Dimension,H*W*D(mm)	830*500*300		
Net Weight(kg)	42	58.5	
Gross Weight(kg)	47.4	63.9	
INTERACE			
Communication Port	RS232/RS485/WIFI/GPRS		
ENVIRONMENT			
Humidity	5%to 95%Relative Humidity(Non~condensing)		
STANDARD			
Compliance Safety	CE UN38.3;MSDS		

APPLICATION



















SYSTEM DIAGRAM

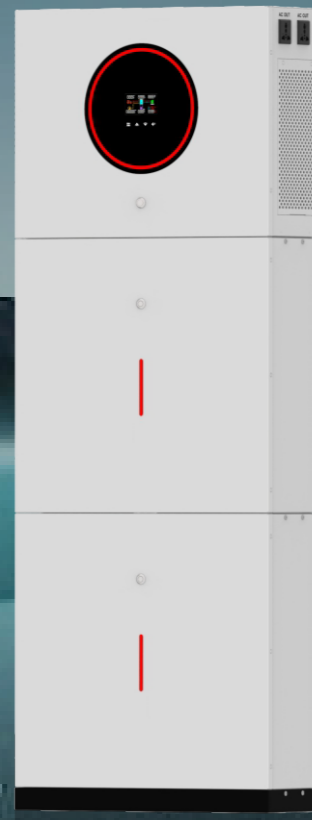


Energy Storage System

ESS SERIES

-  RGB light
-  Dual output
-  Output power factor 1.0
-  Pure sine wave solar inverter(on/off Grid)
-  Built-in 120A MPPT Solar charge max6200W(for 4.2kW);max6500W(for 6.2KW)
-  Built-in Lithium battery automatic activation
-  High PV input voltage range(60~500VDC)
-  Built-in anti-dust kit for harsh environment
-  WIFI&GPRS available for IOS and Android
-  One-key restoration to factory Settings
-  Inverter can run without battery
-  Smart battery charge design to optimize battery life

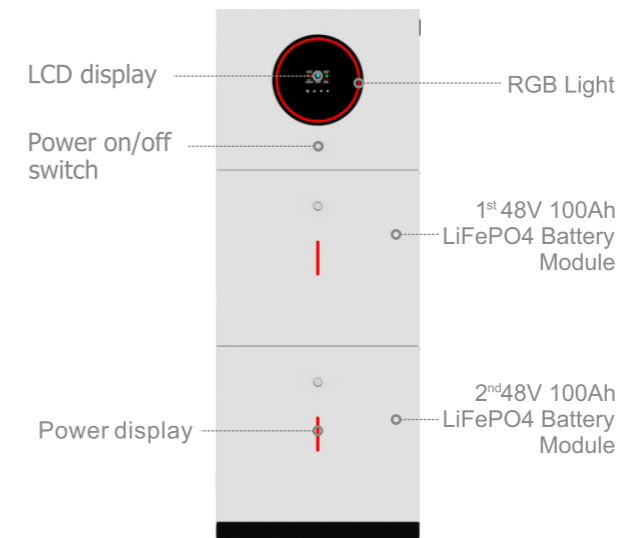
-  Touchable Screen
-  Customized Logo
-  Multiple Shell Colors
-  Customized Capacity



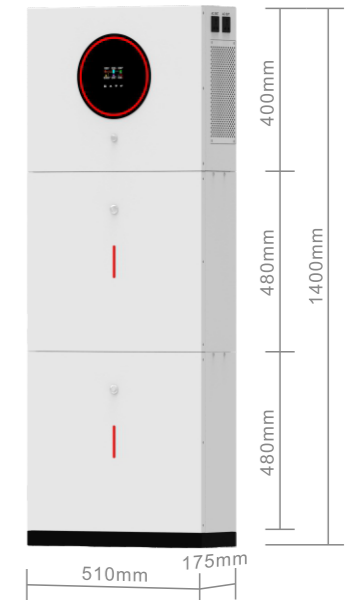
INVERTER		
MODEL	ESS-4.2KW	ESS-6.2KW
Phase	1-phase	
Maximum PV Input Power	6200W	6500W
Rated Output Power	4200W/4200VA	6200W/6200VA
Maximum Solar Charging Current	120A	
GRID-TIE OPERATION		
PV INPUT(DC)		
Nominal DC Voltage/Maximum DC Voltage	360/500VDC	
Start-up Voltage/Initial Feeding Voltage	60VDC/90VDC	
MPPT Voltage Range	60~450VDC	
Maximum Input Current	1/18A	1/22A
GRID OUTPUT(AC)		
Nominal Output Voltage	220/230/240VAC	
Output Voltage Range	195~253VAC	
Nominal Output Current	18.2A	27.0A
Power Factor	>0.99	
EFFICIENCY		
Maximum Conversion Efficiency(DC/AC)	98%	
TWO LOAD OUTPUT POWER		
Full Load	4200W	6200W
Maximum Main Load	4200W	6200W
Second Load Range	840W~2940W	1240W~4340W
Maximum Load Cut Off Voltage	26VDC	52VDC
Maximum Load Return Voltage	27VDC	54VDC
OFF-GRID OPERATION		
AC INPUT		
AC Start-up Voltage/Auto Restart Voltage	120-140VAC/180VAC	
Acceptable Input Voltage Range	90~280VAC or 170~280VAC	
Frequency Range	50±1Hz/60±1Hz	
Maximum AC input Current	24.7A	36.4A
PV INPUT(DC)		
Nominal DC Voltage/Maximum DC Voltage	360/500VDC	
MPPT Voltage Range	60~450VDC	
Maximum Input Current	1/18A	1/22A
BATTERY MODE OUTPUT(AC)		
Nominal Output Voltage	220/230/240VAC	
Output Wave Form	Pure sine wave	
Efficiency(DC toAC)	94%	
BATTERY&CHARGER		
Nominal DC Voltage	24VDC	51.2VDC
Maximum Solar Charging Current	120A	
MaximumAC Charging Current	100A	
Maximum Sotar+AC Charging Current	120A	
HYBRID OPERATION		
PV INPUT(DC)		
Nominal DC Voltage/Maximum DC Voltage	360/500VDC	
Start-up Voltage/Initial Feeding Voltage	90VDC/120VDC	
MPPT Voltage Range	60~450VDC	
Maximum Input Current	1/18A	1/22A
GRID OUTPUT(AC)		
Nominal Output Voltage	220/230/240VAC	
Output Voltage Range	195~253VAC	
Nominal Output Current	18.2A	27.0A
AC INPUT		
AC Start-up Voltage/Auto Restart Voltage	120-140VAC/180VAC	
Acceptable Input Voltage Range	90-280VAC or 170-280VAC	
Maximum AC Input Current	24.7A	36.4A
Maximum Charging Current	100A	
GENERAL		
PHYSICAL		
Dimension,H*W*D(mm)	400*510*175	
Carton Dimension,H*W*D(mm)	510*568*232	
Net Weight(kg)	16.5	18.9
Gross Weight(kg)	19.5	21.9
INTERACE		
Communication Port	RS232/RS485/WIFI/GPRS/LITHIUM BATTERY	
ENVIRONMENT		
Humidity	5%to 95%Relative Humidity(Non-condensing)	
Operating Temperature	-10℃~50℃	
STANDARD		
Compliance Safety	CE	

BATTERY				
MODEL	25.6V 100AH	25.6V 200AH	51.2V 100AH	51.2V 200AH
Normal charging voltage	29.2V	29.2V	58.4V	58.4V
Maximum charging current	100A	100A	100A	100A
Discharge termination voltage	21.6V	21.6V	40.5V	40.5V
Recommended discharge termination voltage	22.4V	22.4V	42V	42V
Maximum discharge current	100A	100A	100A	100A
Single cell charging over voltage protection	3.8V	3.8V	3.8V	3.8V
Over voltage protection for the whole battery	29.2V	29.2V	58.4V	58.4V
Low voltage protection for single cell discharge	2.7V	2.7V	2.7V	2.7V
Low voltage protection for whole group discharge	21.6V	21.6V	40.5V	40.5V
Charge over current protection	102~112A	102~112A	102~112A	102~112A
Discharge over current protection	102~122A	102~122A	102~122A	102~122A
BMS Features	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			
Working temperature	-20°C~65°C			
Storage temperature	-10°C~50°C			
Dimension,H*W*D(mm)	480*510*175			
Carton Dimension,H*W*D(mm)	600*600*260			
Net Weight(kg)	25	46.8	46.8(2PCS)	
Gross Weight(kg)	28.2	50	50(2PCS)	

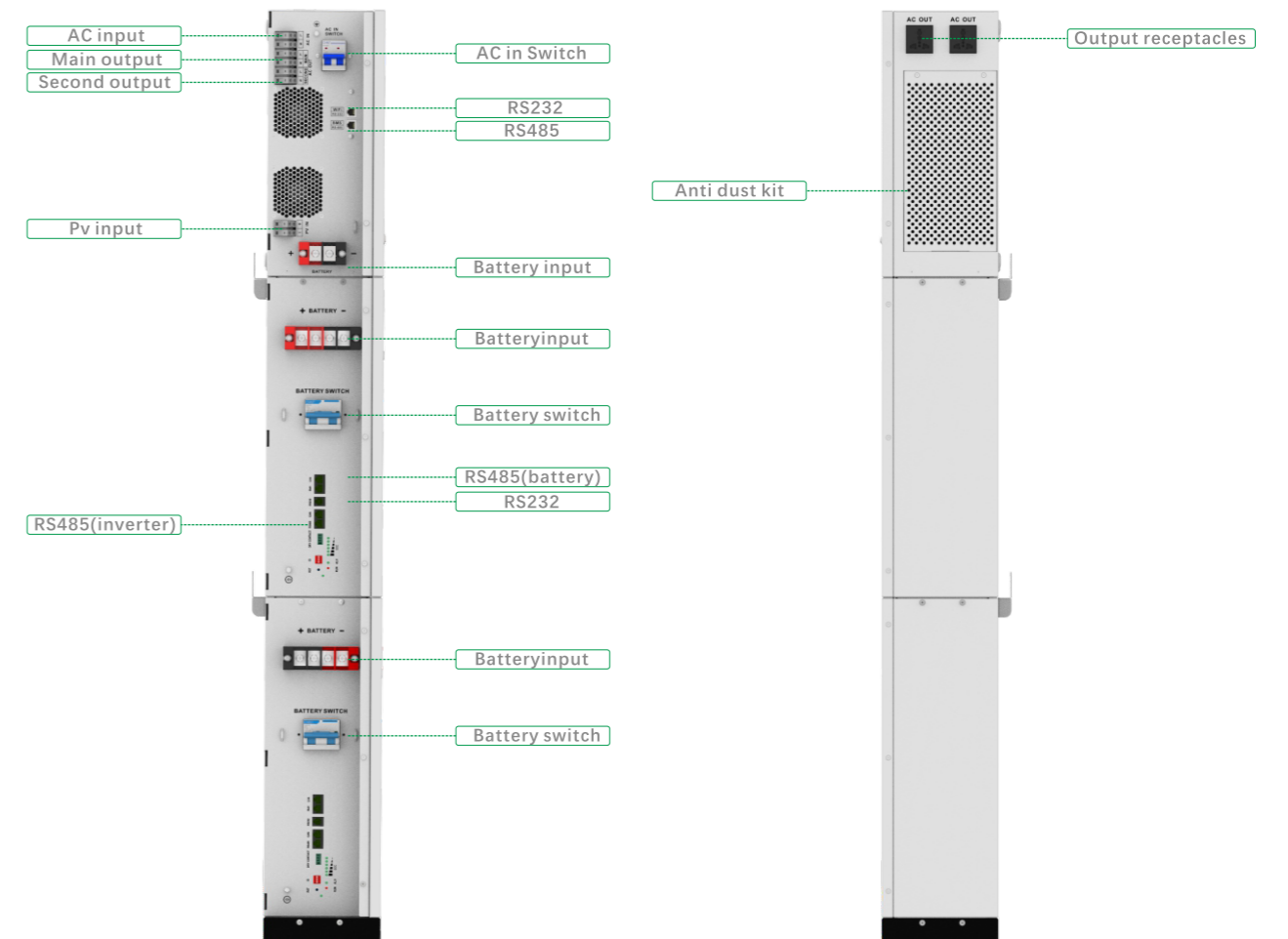
FUNCTION



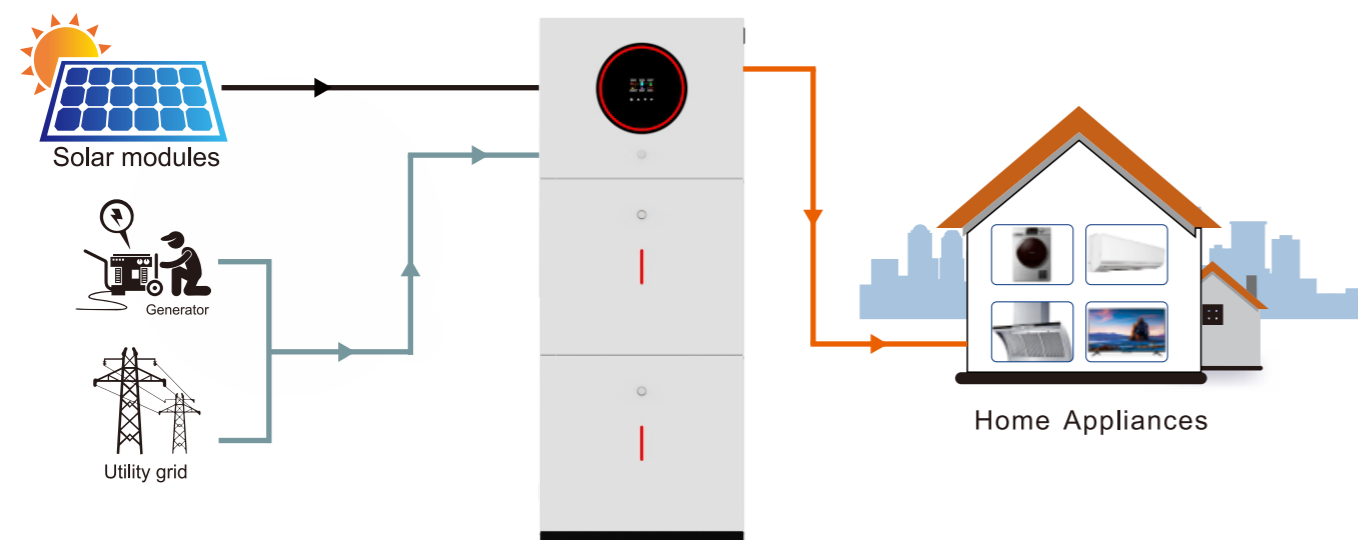
DIMENSION



BACK PANEL DESCRIPTION






SYSTEM DIAGRAM



Energy Storage System

ESS SERIES

-  RGB light
-  Dual Pv input
-  Dual communication ports for Battery communication and Wifi communication
-  Dual output
-  Output power factor 1.0
-  Pure sine wave solar inverter(on/off Grid)
-  Built-in 160A MPPT solar charger (for 8.2kw,10.2kw)
-  Built-in Lithium battery automatic activation
-  High PV input voltage range(90~500VDC)
-  Built-in anti-dust kit for harsh environment
-  WIFI&GPRS available for IOS and Android
-  One-key restoration to factory Settings
-  Inverter can run without battery
-  Smart battery charge design to optimize battery life

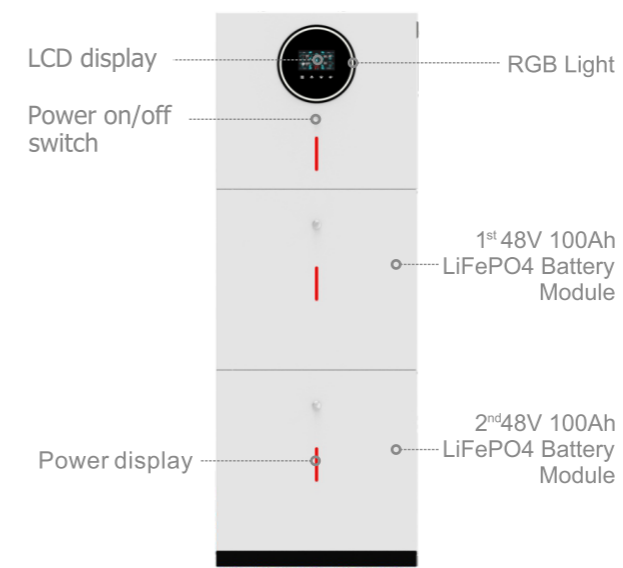
-  Touchable Screen
-  Customized Logo
-  Multiple Shell Colors
-  Customized Capacity



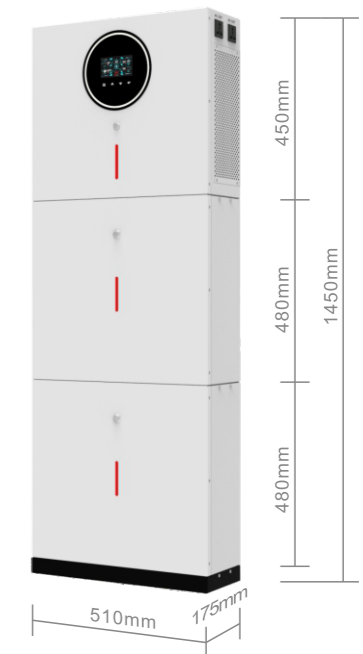
INVERTER		
MODEL	ESS-8.2KW	ESS-10.2KW
Phase	1-phase	
Maximum PV Input Power	5400W+5400W	
Rated Output Power	8200W/8200VA	10200W/10200VA
Maximum Solar Charging Current	160A	
GRID-TIE OPERATION		
PV INPUT(DC)		
Nominal DC Voltage/Maximum DC Voltage	360/500VDC	
Start-up Voltage/Initial Feeding Voltage	90VDC/120VDC	
MPPT Voltage Range	90~450VDC	
Maximum Input Current	2/18A	
GRID OUTPUT(AC)		
Nominal Output Voltage	220/230/240VAC	
Output Voltage Range	195~253VAC	
Nominal Output Current	35.6A	44.3A
Power Factor	>0.99	
EFFICIENCY		
Maximum Conversion Efficiency(DC/AC)	98%	
TWO LOAD OUTPUT POWER		
Full Load	8200W	10200W
Maximum Main Load	8200W	10200W
Second Load Range	1640W~5740W	2040W~7140W
Maximum Load Cut Off Voltage	52VDC	
Maximum Load Return Voltage	54VDC	
OFF-GRID OPERATION		
AC INPUT		
AC Start-up Voltage/Auto Restart Voltage	120-140VAC/180VAC	
Acceptable Input Voltage Range	90~280VAC or 170~280VAC	
Frequency Range	50±1Hz/60±1Hz	
Maximum AC input Current	48.2A	60A
PV INPUT(DC)		
Nominal DC Voltage/Maximum DC Voltage	360/500VDC	
MPPT Voltage Range	90~450VDC	
Maximum Input Current	2/18A	
BATTERY MODE OUTPUT(AC)		
Nominal Output Voltage	220/230/240VAC	
Output Wave Form	Pure sine wave	
Efficiency(DC to AC)	94%	
BATTERY&CHARGER		
Nominal DC Voltage	48VDC	
Maximum Solar Charging Current	160A	
Maximum AC Charging Current	140A	
Maximum Sotar+AC Charging Current	160A	
HYBRID OPERATION		
PV INPUT(DC)		
Nominal DC Voltage/Maximum DC Voltage	360/500VDC	
Start-up Voltage/Initial Feeding Voltage	90VDC/120VDC	
MPPT Voltage Range	90~450VDC	
Maximum Input Current	2/18A	
GRID OUTPUT(AC)		
Nominal Output Voltage	220/230/240VAC	
Output Voltage Range	195~253VAC	
Nominal Output Current	35.6A	44.3A
AC INPUT		
AC Start-up Voltage/Auto Restart Voltage	120-140VAC/180VAC	
Acceptable Input Voltage Range	90~280VAC or 170~280VAC	
Maximum AC Input Current	48.2A	60A
Maximum Charging Current	140A	
GENERAL		
PHYSICAL		
Dimension,H*W*D(mm)	450*510*175	
Carton Dimension,H*W*D(mm)	520*580*250	
Net Weight(kg)	25.8	26
Gross Weight(kg)	28.8	29
INTERACE		
Communication Port	RS232/RS485/WIFI/GPRS/LITHIUMBATTERY	
ENVIRONMENT		
Humidity	5%to 95%Relative Humidity(Non-condensing)	
Operating Temperature	-10°C~50°C	
STANDARD		
Compliance Safety	CE	

BATTERY			
MODEL	51.2V 100AH	51.2V 200AH	51.2V 300AH
Normal charging voltage	58.4V	58.4V	58.4V
Maximum charging current	100A	100A	100A
Discharge termination voltage	40.5V	40.5V	40.5V
Recommended discharge termination voltage	42V	42V	42V
Maximum discharge current	100A	100A	100A
Single cell charging over voltage protection	3.8V	3.8V	3.8V
Over voltage protection for the whole battery	58.4V	58.4V	58.4V
Low voltage protection for single cell discharge	2.7V	2.7V	2.7V
Low voltage protection for whole group discharge	40.5V	40.5V	40.5V
Charge over current protection	102~112A	102~112A	102~112A
Discharge over current protection	102~122A	102~122A	102~122A
BMS Features	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		
Working temperature	-20°C~65°C		
Storage temperature	-10°C~50°C		
Dimension,H*W*D(mm)	510*450*175		
Carton Dimension,H*W*D(mm)	600*600*260		
Net Weight(kg)	46.8	46.8(2PCS)	46.8(3PCS)
Gross Weight(kg)	50	50(2PCS)	50(3PCS)

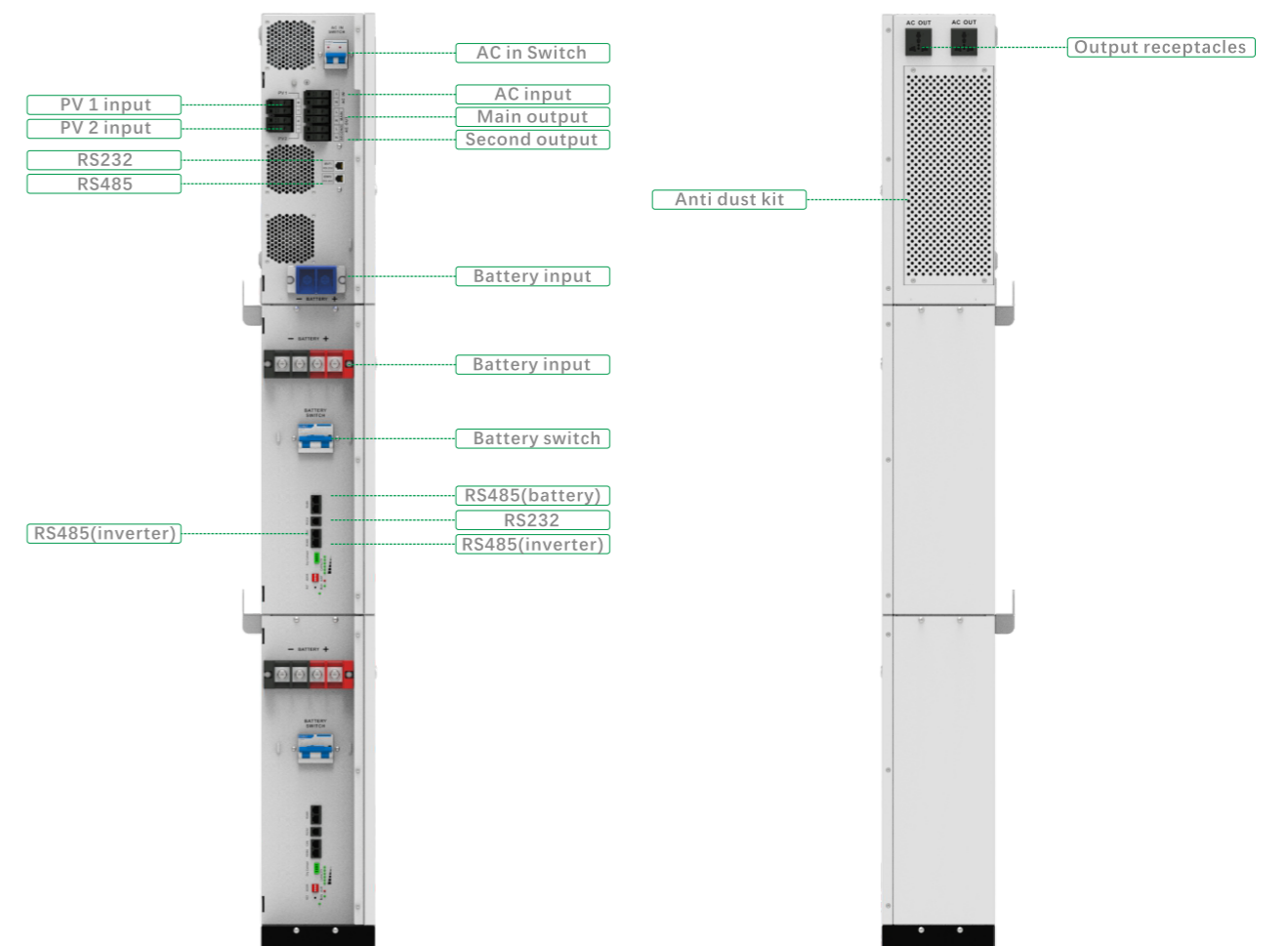
FUNCTION



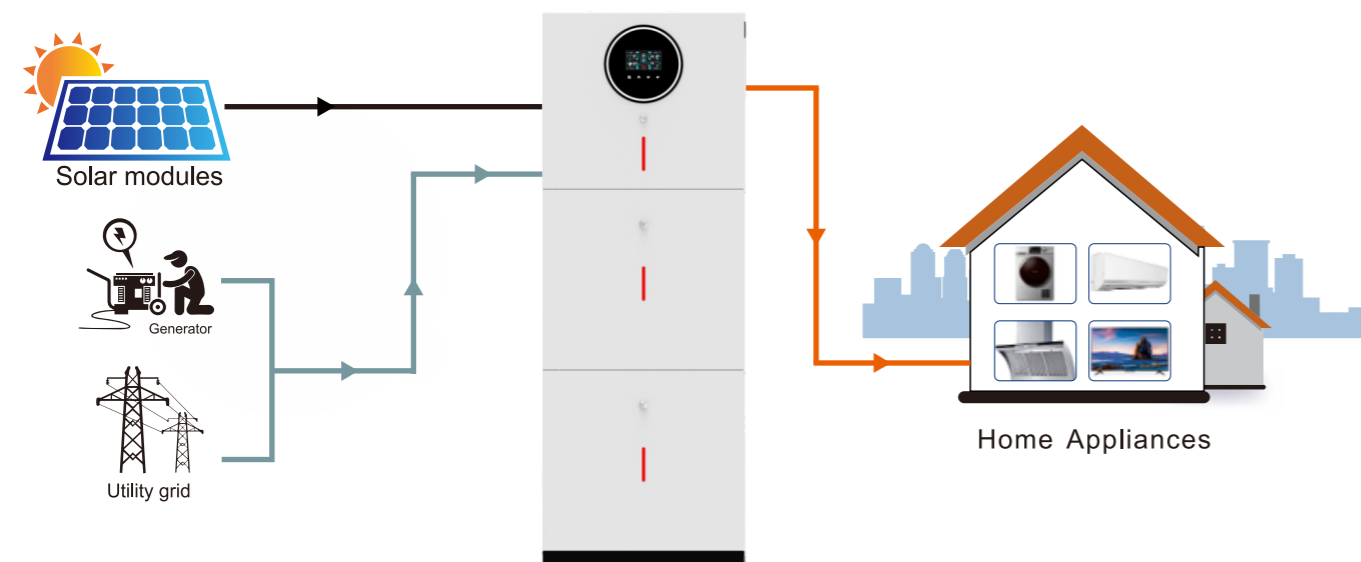
DIMENSION



BACK PANEL DESCRIPTION



SYSTEM DIAGRAM



Energy Storage System

ESS PLUS SERIES

- Dual communication ports for Battery communication and Wifi communication
- Output power factor 1.0
- Built-in 120A MPPT Solar charge: max 6200W (for 4.2Kw), max 6500W (for 6.2KW)
- High PV input voltage range (90~500VDC)
- WIFI & GPRS available for IOS and Android
- Inverter can run without battery
- Dual output
- Pure sine wave solar inverter (on/off Grid)
- Built-in Lithium battery automatic activation
- Built-in anti-dust kit for harsh environment
- One-key restoration to factory Settings
- Smart battery charge design to optimize battery life

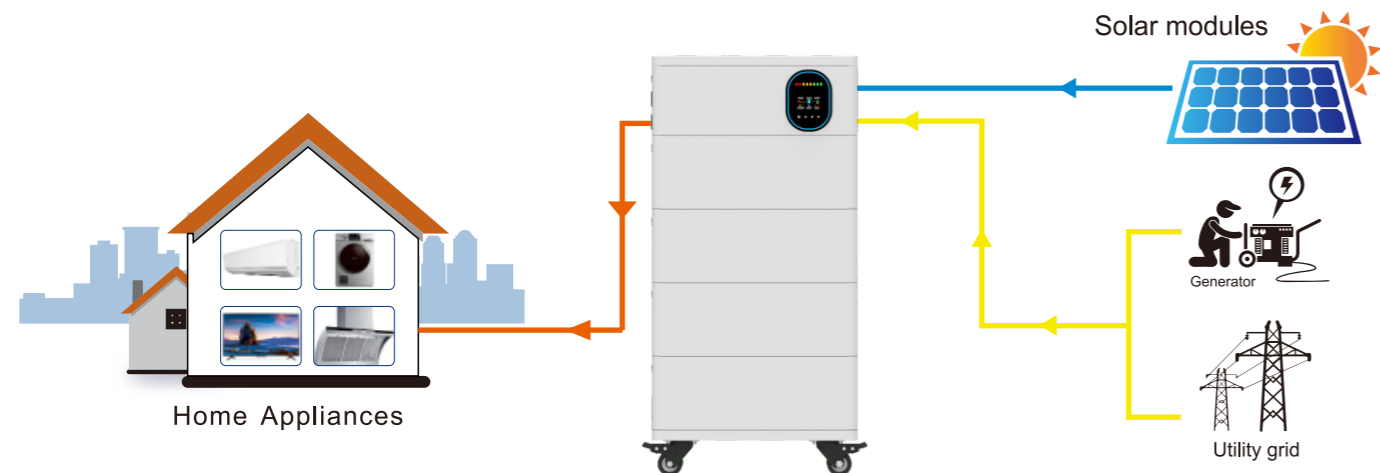
- Independent Module
- Customized Logo
- Multiple Shell Colors
- Customized Capacity



INVERTER		
MODEL	ESS PLUS-4.2KW	ESS PLUS-6.2KW
Phase	1-phase	
Maximum PV Input Power	6200W	6500W
Rated Output Power	4200W/4200VA	6200W/6200VA
Maximum Solar Charging Current	120A	
GRID-TIE OPERATION		
PV INPUT(DC)		
Nominal DC Voltage/Maximum DC Voltage	360/500VDC	
Start-up Voltage/Initial Feeding Voltage	60VDC/90VDC	
MPPT Voltage Range	60~450VDC	
Maximum Input Current	1/18A	1/22A
GRID OUTPUT(AC)		
Nominal Output Voltage	220/230/240VAC	
Output Voltage Range	195~253VAC	
Nominal Output Current	18.2A	27.0A
Power Factor	>0.99	
EFFICIENCY		
Maximum Conversion Efficiency(DC/AC)	98%	
TWO LOAD OUTPUT POWER		
Full Load	4200W	6200W
Maximum Main Load	4200W	6200W
Second Load Range	840W~2940W	1240W~4340W
Maximum Load Cut Off Voltage	26VDC	52VDC
Maximum Load Return Voltage	27VDC	54VDC
OFF-GRID OPERATION		
AC INPUT		
AC Start-up Voltage/Auto Restart Voltage	120-140VAC/180VAC	
Acceptable Input Voltage Range	90-280VAC or 170-280VAC	
Frequency Range	50±1Hz/60±1Hz	
Maximum AC input Current	24.7A	36.4A
PV INPUT(DC)		
Nominal DC Voltage/Maximum DC Voltage	360/500VDC	
MPPT Voltage Range	60~450VDC	
Maximum Input Current	1/18A	1/22A
BATTERY MODE OUTPUT(AC)		
Nominal Output Voltage	220/230/240VAC	
Output Wave Form	Pure sine wave	
Efficiency(DC to AC)	94%	
BATTERY&CHARGER		
Nominal DC Voltage	24VDC	48VDC
Maximum Solar Charging Current	120A	120A
Maximum AC Charging Current	100A	100A
Maximum Solar+AC Charging Current	120A	120A
HYBRID OPERATION		
PV INPUT(DC)		
Nominal DC Voltage/Maximum DC Voltage	360/500VDC	
Start-up Voltage/Initial Feeding Voltage	90VDC/120VDC	
MPPT Voltage Range	60~450VDC	
Maximum Input Current	1/18A	1/22A
GRID OUTPUT(AC)		
Nominal Output Voltage	220/230/240VAC	
Output Voltage Range	195~253VAC	
Nominal Output Current	18.2A	27.0A
AC INPUT		
AC Start-up Voltage/Auto Restart Voltage	120-140VAC/180VAC	
Acceptable Input Voltage Range	90-280VAC or 170-280VAC	
Maximum AC Input Current	24.7A	36.4A
Maximum Charging Current	100A	
GENERAL		
PHYSICAL		
Dimension,H*W*D(mm)	205*530*400	
Carton Dimension,H*W*D(mm)	280*600*470	
Net Weight(kg)	16	16.9
Gross Weight(kg)	17.5	18.4
INTERACE		
Communication Port	RS232/RS485/WIFI/GPRS/LITHIUM BATTERY	
ENVIRONMENT		
Humidity	5%to 95%Relative Humidity(Non~condensing)	
Operating Temperature	-10°C~50°C	
STANDARD		
Compliance Safety	CE	

BATTERY							
MODEL	ESS PLUS 4.2KW			ESS PLUS 6.2KW			
System schematic							
Nominal voltage	25.6V			51.2V			
Number of module	1	2	3	1	2	3	4
Nominal capacity	200AH	400AH	600AH	100AH	200AH	300AH	400AH
Normal charging voltage	29.2V	29.2V	29.2V	58.4V	58.4V	58.4V	58.4V
Maximum charging current	100A	100A	100A	100A	100A	100A	100A
Discharge termination voltage	21.6V	21.6V	21.6V	40.5V	40.5V	40.5V	40.5V
Recommended discharge termination voltage	22.4V	22.4V	22.4V	42V	42V	42V	42V
Maximum discharge current	100A	100A	100A	100A	100A	100A	100A
Single cell charging over voltage protection	3.8V	3.8V	3.8V	3.8V	3.8V	3.8V	3.8V
Over voltage protection for the whole battery	29.2V	29.2V	29.2V	58.4V	58.4V	58.4V	58.4V
Low voltage protection for single cell discharge	2.7V	2.7V	2.7V	2.7V	2.7V	2.7V	2.7V
Low voltage protection for whole group discharge	21.6V	21.6V	21.6V	40.5V	40.5V	40.5V	40.5V
Charge over current protection	102~112A	102~112A	102~112A	102~112A	102~112A	102~112A	102~112A
Discharge over current protection	102~122A	102~122A	102~122A	102~122A	102~122A	102~122A	102~122A
BMS Features	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 Paralel connect function						
Working temperature	-20°C ~65°C						
Storage temperature	-10°C ~50°C						
Dimension,H*W*D(mm)	190*530*400						
Carton Dimension,H*W*D(mm)	265*600*470						
Net Weight(kg)	46.8	46.8(2PCS)	46.8(3PCS)	46.8	46.8(2PCS)	46.8(3PCS)	46.8(4PCS)
Gross Weight(kg)	50	50(2PCS)	50(3PCS)	50	50(2PCS)	50(3PCS)	50(4PCS)

SYSTEM DIAGRAM



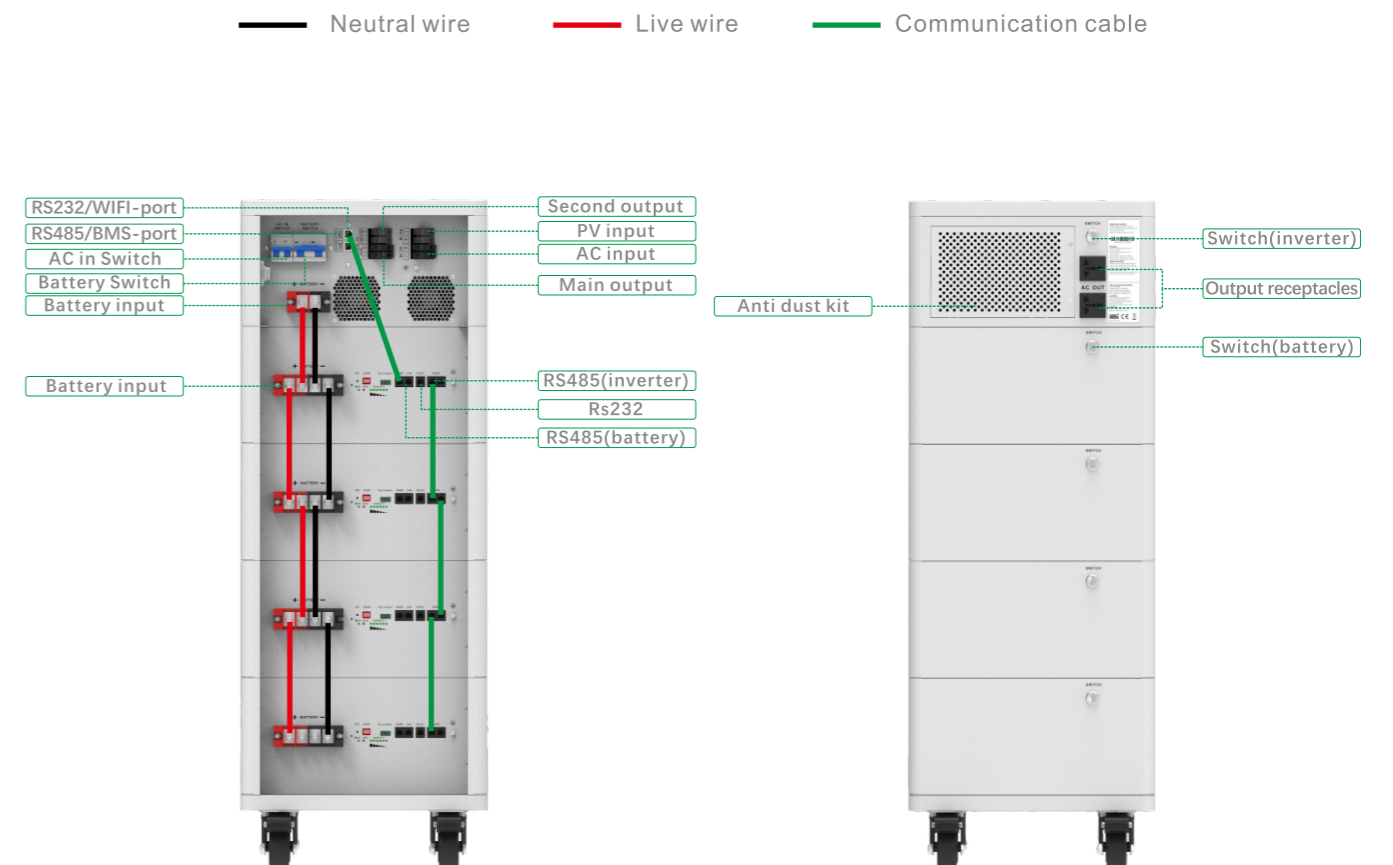
FUNCTION



DIMENSION



BACK PANEL DESCRIPTION



Portable Power Station

ESP SERIES

Support fast charging technology

Environmentally friendly and clean energy

Long battery life: Equipped with a built-in 314Ah high-capacity battery, providing long-term power supply, suitable for long-term outdoor activities or travel.

The portable power supply supports continuous discharge at minus 20 degrees Celsius and can be used normally in cold regions.

Safe and reliable: It has multiple protection functions such as overcharging, overdischarging, short circuit, and overheating to ensure safe use.

No noise: Compared with fuel generators, portable power sources have very low noise during operation and are suitable for use in quiet environments.

Supports simultaneous charging of photovoltaic input and discharge of load, and supports AC bypass output.

Portable design: small size, light weight, easy to carry, suitable for outdoor activities, travel, and mobile office.

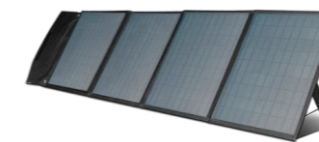


MODEL	EPS-300W	EPS-500W
Rate Output Power	300W	500W
PHASE	Single Phase	
Output Voltage Waveform	Pure Sine Wave	
PV INPUT(DC)		
Maximum DC Voltage	55V	
MPP Voltage Range	11-55V	
GRID OUTPUT(AC)		
Nominal Output Voltage	220VAC/230VAC	
AC INPUT		
AC Charging Power	MAX 300W	
AC Input Voltage Range	150VAC-264VAC	
AC Input Frequency Range	45Hz-65Hz	
BATTERY		
Cell Type	LiFePo4	
Battery Capacity	314Ah	
Rate Energy	1000Wh	
GENERAL		
PHYSICAL		
Dimension, D*W*H(mm)	257*230*139.5	
ENVIRONMENT		
Operating Temperature	0 ~ 45 °C	
Operating Humidity	< 95%	
STANDARD		
Protection Grade	IP21	
DC5521 Output Characteristics		
Rated output voltage	12V ±3%	
Protection Grade	4A max	
USB Output Characteristics		
Connection Type	USB TYPE-A	
Supporting Protocol	QC2.0/QC3.0/SCP /AFC/Apple 2.4A	
Rate Energy	20W max	

PRODUCT OPTIONAL ACCESSORIES



AC input line



Solar panels



Solar charging cable



Car charging cable



Expansion socket

Portable Power Station

ESP SERIES

Support fast charging technology

Environmentally friendly and clean energy

Long battery life: Equipped with a built-in 314Ah high-capacity battery, providing long-term power supply, suitable for long-term outdoor activities or travel.

The portable power supply supports continuous discharge at minus 20 degrees Celsius and can be used normally in cold regions.

Safe and reliable: It has multiple protection functions such as overcharging, overdischarge, short circuit, and overheating to ensure safe use.

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Supports simultaneous charging of photovoltaic input and discharge of load, and supports AC bypass output.

Portable design: small size, light weight, easy to carry, suitable for outdoor activities, travel, and mobile office.

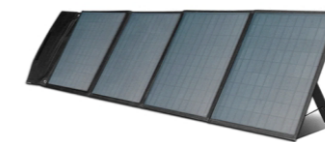


MODEL	EPS-1000W
Rate Output Power	1000W
PHASE	Single Phase
Output Voltage Waveform	Pure Sine Wave
PV INPUT(DC)	
Maximum DC Voltage	55V
MPP Voltage Range	11-55V
GRID OUTPUT(AC)	
Nominal Output Voltage	230VAC
AC INPUT	
AC Charging Power	MAX 800W
AC Input Voltage Range	150VAC-264VAC
AC Input Frequency Range	45Hz-65Hz
BATTERY	
Cell Type	LiFePo4
Battery Capacity	314Ah*2
Rate Energy	2009.6Wh
GENERAL	
PHYSICAL	
Dimension, D*W*H(mm)	400*257*139.5
ENVIRONMENT	
Operating Temperature	0 ~ 45°C
Operating Humidity	<95%
STANDARD	
Protection Grade	IP21
DC5521 Output Characteristics	
Rated output voltage	12+ -3%
Protection Grade	4A max
USB Output Characteristics	
Connection Type	USB TYPE-A
Supporting Protocol	QC2.0/QC3.0/SCP /AFC/Apple 2.4A
Rate Energy	20W max

PRODUCT OPTIONAL ACCESSORIES



AC input line



Solar panels



Solar charging cable



Car charging cable



Expansion socket

OEM/ODM SERIES

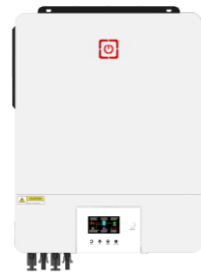
ON/OFF GRID SOLAR INVERTER

MAX SERIES



8200W/8200VA
10200W/10200VA

MAX PRO SERIES



8200W/8200VA
10200W/10200VA

MAX-BL SERIES



8200W/8200VA
10200W/10200VA

NM-ECO SERIES



4200W/4200VA
6200W/6200VA

NM-ECO-II SERIES



4200W/4200VA
6200W/6200VA

NM-ECO-LV SERIES



3600W/3600VA
(3000/3150/3300)
6200W/6200VA
(5300/5500/5700)

NM-ECO PRO SERIES



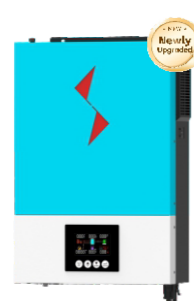
3600W/3600VA
4200W/4200VA
6200W/6200VA

ECO-BL SERIES



4200W/4200VA
6200W/6200VA

NM-V plus SERIES



4500W/4500VA
6500W/6500VA

MPS-VX SERIES



4500W
6500W

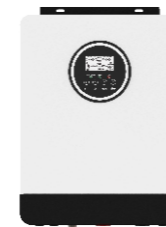
SCE SERIES



4.5KW/4.5KVA
6.5KW/6.5KVA
10KW/10KVA

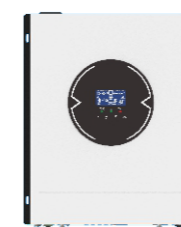
OFF GRID SOLAR INVERTER

EP 2400L



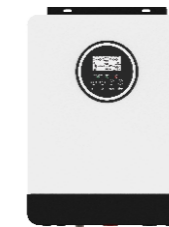
1200VA/1200W
2400VA/2400W

EP 4000L



2000VA/2000W
3500VA/3500W

EP 4200H



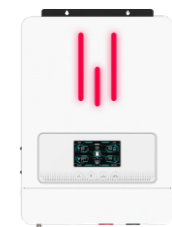
2300VA/2300W
4200VA/4200W

SP SERIES



2200VA/1800W
3200VA/3000W
4200VA/3800W
7000VA/6200W

RS SERIES



2200VA/1800W
3200VA/3000W
4200VA/3800W
7000VA/6200W

LS SERIES



2000W/2000VA
3200W/3200VA

NML SERIES



2000VA/1600W
3200VA/3000W

NMS SERIES



1000W/1000VA
1500W/1500VA

POWER INVERTER

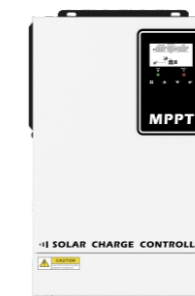
TITAN SERIES



3000W
5000W

MPPT CHARGER

XMC SERIES



140A
80A