



HD Newenergy



Shenzhen Huada New Energy Technology Co., Ltd

Responsible - Service - Integrity - Win-win

Company Product Catalogue

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I . COMPANY PROFILE

Shenzhen HuaDa New Energy Technology Co., Ltd is a professional supplier of Solar energy application products with over 10 years of production experience. Our factory is located in Shenzhen, China. The main products are solar panel, Semi-flexible solar panel, Solar tile, customized solar panel with various encapsulation for solar application, outdoor portable solar folding pack. All products passed a 100% full loading test to ensure quality, we keep to provide high quality products with competitive price and services to customer.





II. Monocrystalline Solar Panel

Product Advantages

IP68 Junction Box, Connector

IP68 Junction Box and Connector have a high degree of waterproof. effectively resist the harsh environment

15A current

The junction box carries a current of 1EA, ensuring high current flow through the modules

Super strong frame

Glue-spilled tank has a double-layer waterproof.
Cross-section with hook-shaped aluminum frame, enhanced by 10°A of the mechanical load strength

Current division

The module refines the current division. this effectively reducing the loss of up to 2°A due to mismatch and increasing the power output of the system

Salt spray. Ammonia and PID test

Resistance Excellent salt spray. anti-ammonia and anti PID. TUV, SUD certification approved

Strong Mechanical load capacity

Passed the 2400pa wind load and 5400pa snow load test ensuring that the module has a stable mechanical life

Color Classification

Modules are packaged according to color classification. to achieve consistent appearance after installation



Product certification

IEC61215, IEC61730





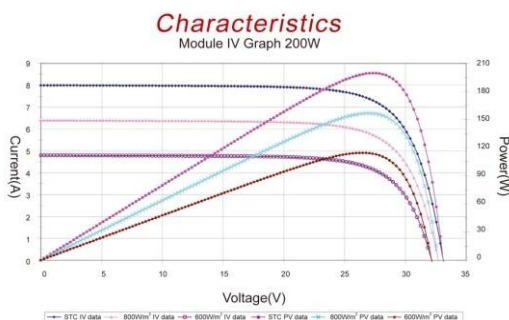
Maximum power (Pmax)	400W	405W	410W	415W	420W
Optimum operating voltage (Vmp)	37.78V	37.82V	38.31V	38.32V	38.44V
Recommended current (Imp)	10.59A	10.72A	10.71A	10.83A	10.93A
Open circuit voltage (Voc)	43.50V	43.58V	43.61A	43.66V	43.68V
Short circuit current (Isc)	11.33A	11.43A	11.44A	11.53A	11.54A
Short-circuit current temperature coefficient	(0.065±0.015) %/°C				
Open-circuit voltage temperature coefficient	- (80±10) mV/°C				
Peak power temperature coefficient	- (0.5±0.05) %/°C				
NOCT (Air 20°C; Sun 0.8kW/m wind 1m/s)	47±2°C				
Operating temperature	-40°C to 85°C				
Maximum system voltage	1000V DC				
Power tolerance	±3%				

STC: Radiation 1000W/m², component temperature 25°C, AM=1.5.

Features

- Nominal 36V DC for standard output.
- Efficiency: 20.85% (Use Solar cell with 23% Efficiency).
- Outstanding low-light performance.
- High transmission tempered glass.
- Rugged design to withstands high wind pressure and snow load, easy installation.
- Aesthetic appearance.
- Design to meet unique demand of customer.
- 25 years module output warranty.

Characteristics



Cell	Mono-crystalline silicon solar cells	
Dimension of module	1723mm×1134mm×35mm	
Weight	20.90kg	
Pallet (31Pcs):	1750*1120*1260mm	678Kgs

Note: Specifications are subject to change without prior notice.



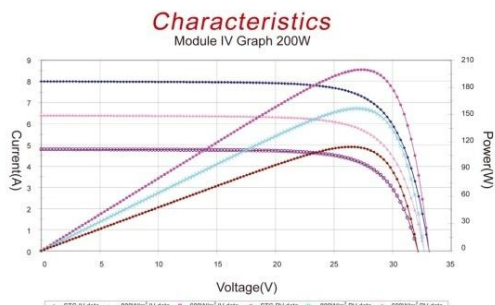
Maximum power (Pmax)	465W	470W	475W	480W
Optimum operating voltage (Vmp)	38.00V	38.02V	38.21V	38.31V
Recommended current (Imp)	12.24A	12.36A	12.50A	12.52A
Open circuit voltage (Voc)	46.40V	46.45V	46.54V	46.61V
Short circuit current (Isc)	13.10A	13.12A	13.20A	13.21A
Temperature coefficient of short circuit current	(0.065±0.015) %/°C			
Open circuit voltage temperature coefficient	- (80±10) mV/°C			
Peak power temperature coefficient	- (0.5±0.05) %/°C			
NOCT	47±2°C			
Operating temperature	-40°C to 85°C			
Maximum system voltage	1500V DC			
Output power tolerance	±3%			
Solar cell sheet	Single crystal cell sheet			
Component size	2239mmx 1042mmx35mm			
Weight	24.5kg			

STC: Radiation 1000W/m², component temperature 25°C, AM=1.5.

Features and Advantages

- 40V DC voltage stable output
- High conversion rate, high efficiency output
- Excellent low light effect
- Adopt high transmittance high quality tempered glass
- The unique technology makes the components beautiful, strong and wind - resistant, easy to install
- Unique technology to avoid water freezing and deformation in the frame
- Can be specially designed according to customer needs, individually packaged
- 25 years output power guarantee

Characteristics



Solar cell sheet	Single crystal cell sheet
Component size	2239mmx 1042mmx35mm
Weight	24.5kg

Note: Specifications are subject to change without prior notice.



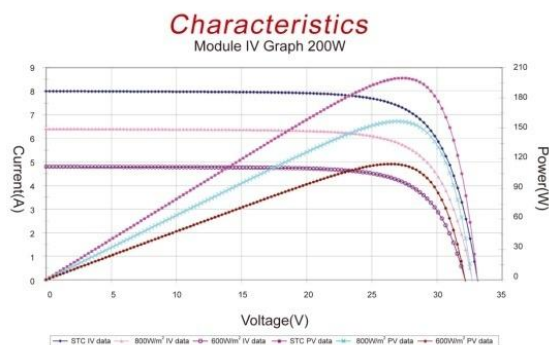
Maximum power (Pmax)	540W	545W	550W	555W
Optimum operating voltage (Vmp)	39.42V	39.450V	39.494V	39.502V
Recommended current (Imp)	13.774A	13.815A	13.942A	14.05A
Open circuit voltage (Voc)	48.08V	48.08V	48.077V	48.081V
Short circuit current (Isc)	14.543A	14.657A	14.672A	14.690A
Temperature coefficient of short circuit current	(0.065±0.015) %/°C			
Open circuit voltage temperature coefficient	- (80±10) mV/°C			
Peak power temperature coefficient	- (0.5±0.05) %/°C			
NOCT	47±2°C			
Operating temperature	-40°C to 85°C			
Maximum system voltage	1500V DC			
Output power tolerance	±3%			
Solar cell sheet	Single crystal cell sheet			
Component size	2158*1236*35mm			
Weight	27.4kg			

STC: Radiation 1000W/m2, component temperature 25°C, AM=1.5.

Features and Advantages

- 40V DC voltage stable output
- High conversion rate, high efficiency output
- Excellent low light effect
- Adopt high transmittance high quality tempered glass
- The unique technology makes the components beautiful, strong and wind - resistant, easy to install
- Unique technology to avoid water freezing and deformation in the frame
- Can be specially designed according to customer needs, individually packaged
- 25 years output power guarantee

Characteristics



Solar cell sheet	Single crystal cell sheet
Component size	2158*1236*35mm
Weight	27.4kg

Note: Specifications are subject to change without prior notice.



III.BIPV Solar Tile

The world's leading photovoltaic green building materials, One Special tile that instead of the traditional tile.
THIN FILM TECHNOLOGY SUBVERSIVE INNOVATION

1.THREE CURVED SOLAR TILE



Maximum power (Pmax)	30W(Black)	32W(Black)	18W(Red/green)	25W(Red/green)
Optimum operating voltage (Vmp)	8.0V	8.1V	7.2V	7.8V
Recommended current (Imp)	3.8A	4.0A	2.6A	3.2A
Open circuit voltage (Voc)	10.3V	10.5V	9.5V	10.1V
Short circuit current (Isc)	4.3A	4.4A	3.3A	4.0A
Maximum power per square meter	110W (Black) /86W (Red) (±7%) (3pcs per SQ)			
Temperature coefficient of short circuit current	(0.065±0.015) %/℃			
Open circuit voltage temperature coefficient	- (80±10) mV/℃			
Peak power temperature coefficient	- (0.5±0.05) %/℃			
Solar cell sheet	CIGS amorphous cell sheet			
Component size	721(W)*500(H)*33(T)mm/28.3(W)*19.6(H)*1.3(T)inch 721(W)*500(H)*33(T)mm/28.3(W)*19.6(H)*1.3(T)inch			
Operating temperature	-40℃ to 85℃	Maximum system voltage		1500V DC
Output power tolerance	±7%	NOCT		47±2℃
Weight	6.5kg	Waterproofing grade		IP67
Linear power guarantee	25years	Wind resistance rating		15grade
Class of loading	5400Pa	Fire rating		A grade
Hail test (hail diameter/impact velocity):	Maximum diameter 25mm, impact speed 23m/s			

STC: Radiation 1000W/m2, component temperature 25°C, AM=1.5.

* Note: Specifications are subject to change without prior notice.





2.FLAT SOLAR TILE



Maximum power (Pmax)	90W(Black)	100W(Black)	75W(Red/green)	85W(Red/green)
Optimum operating voltage (Vmp)	26.3V	26.5V	26.2V	26.3V
Recommended current (Imp)	3.5A	3.8A	2.8A	3.2A
Open circuit voltage (Voc)	31.1V	31.2V	26.2V	26.3V
Short circuit current (Isc)	4.3A	4.6A	4.2A	4.1A
Maximum power per square meter	200W (Black) /170W (Red) (±7%) (2pcs per SQ)			
Temperature coefficient of short circuit current	(0.065±0.015) %/°C			
Open circuit voltage temperature coefficient	- (80±10) mV/°C			
Peak power temperature coefficient	- (0.5±0.05) %/°C			
Solar cell sheet	Mono cell sheet			
Component size	1460(L)*437(W)*21(T)mm/57.5(W)*17.2(H)*0.83(T)inch			
Operating temperature	-40℃ to 85℃	Maximum system voltage		1500V DC
Output power tolerance	±7%	NOCT		47±2℃
Weight	12.5kg	Waterproofing grade		IP67
Linear power guarantee	25years	Wind resistance rating		15grade
Class of loading	5400Pa	Fire rating		A grade
Hail test (hail diameter/impact velocity):	Maximum diameter 25mm, impact speed 23m/s			

STC: Radiation 1000W/m², component temperature 25°C, AM=1.5.

* Note: Specifications are subject to change without prior notice.





3.C SOLR TILE



Maximum power (Pmax)	9.5W(Black)	12W(Black)	5.5W(green)	7.5W(green)
Optimum operating voltage (Vmp)	6.6V	7.5V	5.4V	6.2V
Recommended current (Imp)	1.5A	1.7A	1.1A	1.2A
Open circuit voltage (Voc)	8.1V	8.7 V	7.2V	7.5V
Short circuit current (Isc)	1.7A	1.9A	1.2A	1.5A
Maximum power per square meter	60W (Black) /48W (Red) (±7%) (5pcs per SQ)			
Temperature coefficient of short circuit current	(0.065±0.015) %/°C			
Open circuit voltage temperature coefficient	- (80±10) mV/°C			
Peak power temperature coefficient	- (0.5±0.05) %/°C			
Solar cell sheet	CIGS amorphous cell sheet			
Component size	720(L)*224(W)*66(T)mm/28.3(W)*8.8(H)*2.6(T)inch			
Operating temperature	-40℃ to 85℃	Maximum system voltage		1500V DC
Output power tolerance	±7%	NOCT		47±2℃
Weight	4.5kg	Waterproofing grade		IP67
Linear power guarantee	25years	Wind resistance rating		15grade
Class of loading	5400Pa	Fire rating		A grade
Hail test (hail diameter/impact velocity):	Maximum diameter 25mm, impact speed 23m/s			

STC: Radiation 1000W/m2, component temperature 25°C, AM=1.5.

* Note: Specifications are subject to change without prior notice.

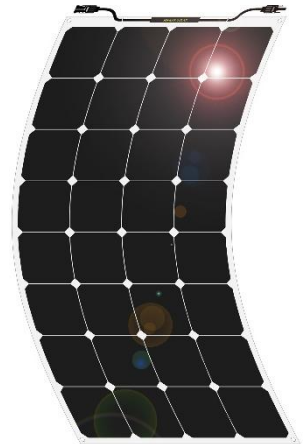




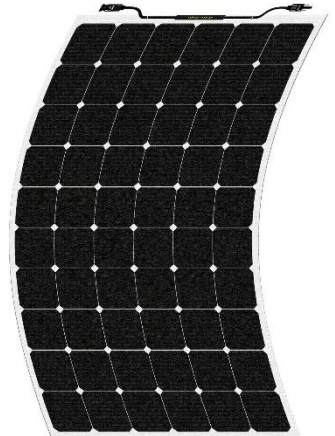
IV.Semi-Flexible Solar Panel

Semi-Flexible solar panel are the light, convenient and efficient on the market, Suitable for installation in ships, trucks, travel roofs and other harsh environments Integrated, by pass diodes to minimize output losses associated with partial shading, waterproof, salt water resistant and less than 2mm thick, Adaptable to battery: from 5 to 50voltagues, lead-acid or lithium.

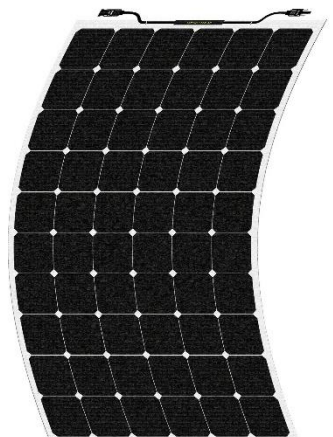
Maximum Rating Power (Pmax)	W	95	100	105	110	115
Open Circuit Voltage (Voc)	V	21.34	21.58	22.13	22.78	23.32
Maximum Power Voltage (Vmp)	V	18.32	18.47	18.60	18.72	18.9
Short Circuit Current (Isc)	A	6.42	6.59	6.76	6.85	6.94
Maximum Power Current (Imp)	A	5.18	5.41	5.65	5.87	6.08
Module Efficiency	%	19	20	21	22	23
Power Tolerance	%	0/+3	0/+3	0/+3	0/+3	0/+3
Solar Cell	32 mono 125*125mm					
Dimensions	1065*540*18mm					
Weight	2.0kg					
Packing configuration	20pcs/box,12box/pallet ,2800pcs/20ft					



Maximum Rating Power (Pmax)	W	110	115	120	125	130
Open Circuit Voltage (Voc)	V	23.96	24.21	24.48	24.79	25.12
Maximum Power Voltage (Vmp)	V	20.14	20.33	20.52	20.77	20.97
Short Circuit Current (Isc)	A	6.42	6.59	6.75	6.83	6.91
Maximum Power Current (Imp)	A	5.46	5.65	5.84	6.01	6.18
Module Efficiency	%	19.6	20.4	21.33	22.2	23.1
Power Tolerance	%	0/+3	0/+3	0/+3	0/+3	0/+3
Solar Cell	36 mono 125*125mm					
Dimensions	1200*540*18mm					
Weight	2.4kg					
Packing configuration	20pcs/box,12box/pallet ,2300pcs/20ft					

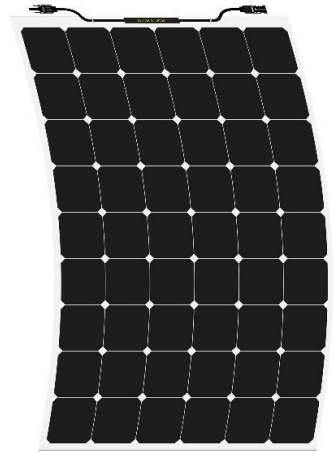


Maximum Rating Power (Pmax)	W	160	165	170	175	180	185
Open Circuit Voltage (Voc)	V	36.45	36.69	36.91	37.12	37.30	37.47
Maximum Power Voltage (Vmp)	V	30.23	30.54	30.78	31.03	31.29	31.59
Short Circuit Current (Isc)	A	6.39	6.52	6.63	6.74	6.81	6.93
Maximum Power Current (Imp)	A	5.29	5.40	5.52	5.63	5.75	5.85
Module Efficiency	%	18.96	19.55	20.15	20.74	21.33	21.90
Power Tolerance	%	0/+3	0/+3	0/+3	0/+3	0/+3	0/+3
Solar Cell	54 mono 125*125mm						
Dimensions	1200*800*18mm						
Weight	3.1 kg						
Packing configuration	20pcs/box,12box/pallet ,1680pcs/20ft						

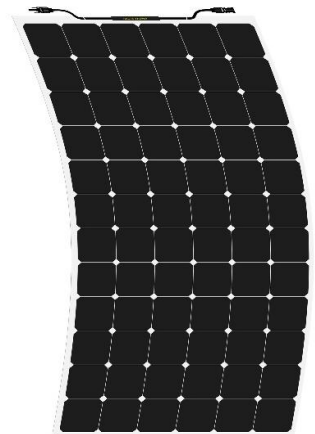




Maximum Rating Power (Pmax)	W	190	195	200	205	210	215
Open Circuit Voltage (Voc)	V	40.5	40.65	40.88	41.27	41.62	41.94
Maximum Power Voltage (Vmp)	V	3.82	34.01	34.2	34.53	34.75	34.95
Short Circuit Current (Isc)	A	6.17	6.2	6.22	6.34	6.38	6.43
Maximum Power Current (Imp)	A	5.61	5.73	5.84	5.93	6.04	6.15
Module Efficiency	%	20.26	20.8	21.33	21.86	22.4	22.9
Power Tolerance	%	0/+3	0/+3	0/+3	0/+3	0/+3	0/+3
Solar Cell	60 mono 125*125mm						
Dimensions	1320*800*18mm						
Weight	3.55kg						
Packing configuration	20pcs/box, 12box/pallet, 1680pcs/20ft						



Maximum Rating Power (Pmax)	W	230	235	240	245	250	255	260
Open Circuit Voltage (Voc)	V	48.6	48.8	48.9	49.1	49.2	49.3	49.4
Maximum Power Voltage (Vmp)	V	40.6	40.8	41.0	41.1	41.3	41.5	41.7
Short Circuit Current (Isc)	A	6.1	6.2	6.24	6.2	6.3	6.3	6.4
Maximum Power Current (Imp)	A	5.6	5.7	5.8	5.9	6.0	6.1	6.2
Module Efficiency	%	20.4	20.88	21.3	21.78	22.2	22.67	23.1
Power Tolerance	%	0/+3	0/+3	0/+3	0/+3	0/+3	0/+3	0/+3
Solar Cell	72 mono 125*125mm							
Dimensions	1580*800*18mm							
Weight	4.5 kg							
Packing configuration	20pcs/box, 12box/pallet, 1320pcs/20ft							



Temperature Characteristics			
Nominal Module Operating Temp	45±2℃	Mechanical Load	Win: 1.2KPa; Snow:2.7KPa
Temperature Coefficient of Isc	0.065%/℃	Front Materials	Epoxy fiberglass board
Temperature Coefficient of Voc	-0.346%/℃	Cell Encapsulation	EVA (Ethylene-Vinyl-Acetate)
Temperature Coefficient of Pmax	-0.46%/℃	Back Cover	PET/ETFE/composite material
Operating Temperature	-40 to 85℃	Junction Box	IP 67 rated
Maximum System Voltage	500VDC	Connector	MC4
Series Fuse Rating	15A	Cable	UV resistant PV cable 4mm2

STC: Radiation 1000W/m2, component temperature 25℃, AM=1.5. Note: Specifications are subject to change without prior notice.





2. Monocrystalline silicon semi-flexible solar panel Electrical Data (STC)

Model No.	ST-40W	ST-50W	ST-80W	ST-100W	ST-110W	ST-150W	ST-180W	ST-200W	ST-250W	ST-320W	ST-350W	ST-380W
Max power	40W	50W	80W	100W	110W	150W	180W	200W	250W	320W	350W	380W
Componet	ETFE / EVA / Cell / EVA / PET											
Open Circuit Voltage(VOC)	22.5V	22.5V	22.5V	19.2V	22.5V	19.2V	22.5V	22.5V	28.8V	33V	36.3V	39.6V
Short Circuit Current(ISC)	2.44A	2.96A	4.88A	6.87A	6.72A	10.3A	10.7A	12. 2A	11. 45A	11. 7A	11. 6A	11. 6A
Max. Power Voltage(Vmp)	18V	18V	18V	16V	18V	16V	18V	18V	24V	30V	33V	36V
Max. Power Current(Imp)	2.22A	2.78V	4.44A	6.25A	6.11A	9.37A	10A	11. 1A	10. 4A	10. 6A	10. 6A	10. 5A
Maximum System Voltage	1000V	1000V	1000V	1000V	1000V	1000V	1000V	1000V	1000V	1000V	1000V	1000V
Power Tolerance	±3%	±3%	±3%	±3%	±3%	±3%	±3%	±3%	±3%	±3%	±3%	±3%
Dimension Folded (cm)	55x40x0.2	62x54x0.2	80x50x0.3	105x54x0.3	120x54x0.3	132x68x0.3	150x68x0.3	152x69x0.3	134x98x0.3	166x98x0.4	182x98x0.4	196x98x0.4
Controller	PWM / MPPT											
Opertate Temperature Range	-40℃ to + 85℃											
Relative Humidity	0~100%											

STC: Radiation 1000W/m2, component temperature 25℃, AM=1.5.



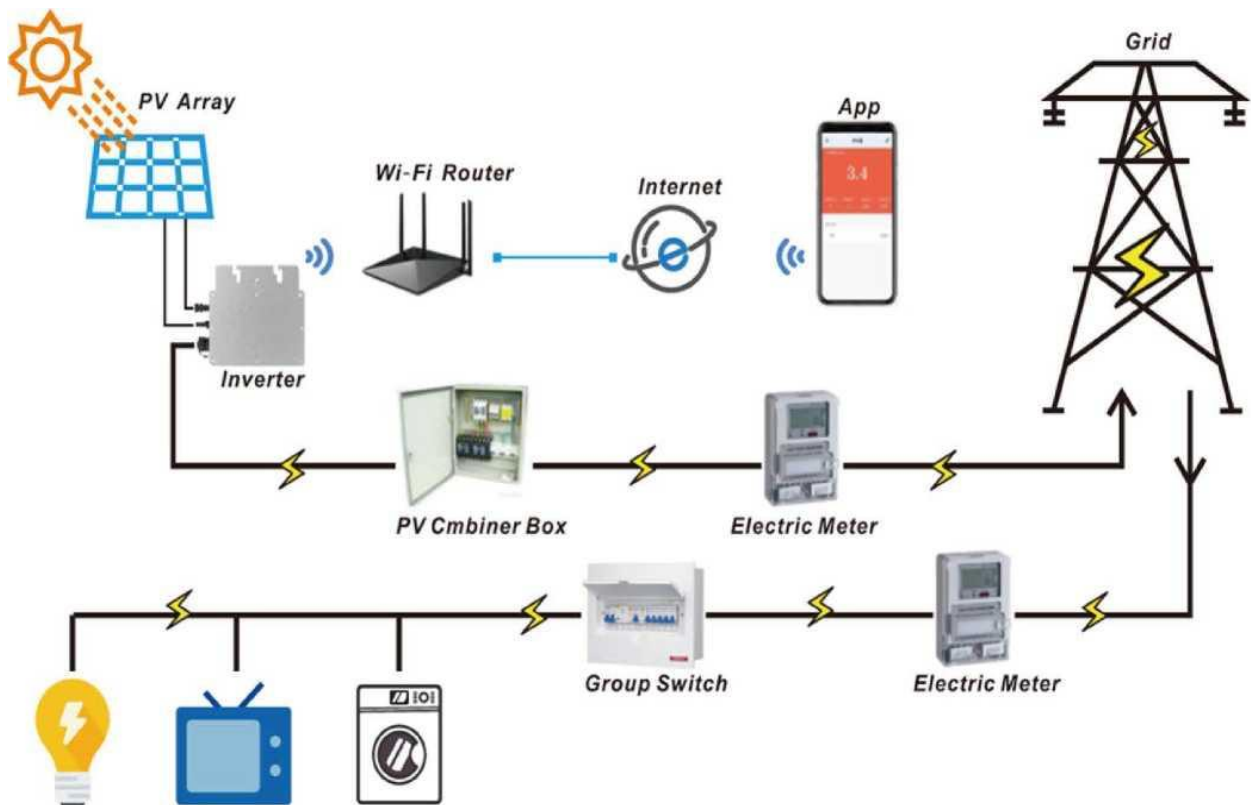


V. Micro-On grid Inverter

It has the fourth generation photovoltaic power generation technology More than ten core technology patents, including the second generation photovoltaic charging, Combining German technology to create products belonging to Chinese people.

The traditional photovoltaic inverter mode is to place all photovoltaic cells in the anode, All the direct current generated under light irradiation are connected in series and parallel, and then Inverter the DC power into AC power through an inverter Web; The micro inverter inverts each module. Advantages can perform independent MPPT control on each component can greatly improve the overall efficiency and avoid centralized inversion DC high voltage, poor weak light effect and hot spot effect of the converter

1.Introduction to connection diagram



2. Product model

GTB300W/350/400/600/700/800/1200/1400/1600/2000





VII. LiFePO4 Battery





Product	12.8V 50AH LiFePO4 Battery	12.8V 100AH LiFePO4 Battery	12.8V 200AH LiFePO4 Battery	12.8V 300AH LiFePO4 Battery
Nominal Voltage	12.8V	12.8V	12.8V	25.6V
Charge Voltage	14.6V	14.6V	14.6V	29.2V
Cycle Life	> 2000 cycles at 100% DoD up to 5000 cycles at 80% DoD	> 2000 cycles at 100% DoD up to 5000 cycles at 80% DoD	> 2000 cycles at 100% DoD up to 5000 cycles at 80% DoD	> 2000 cycles at 100% DoD up to 5000 cycles at 80% DoD
Weight	6.3KG/13.8LB	10.8KG/23.8LB	22.2KG/48.9LB	30.5KG/67.2LB
Energy	640WH	1280WH	2560WH	3840WH
Max Continuous Charging Current	50A	100A	200A	200A
Max Continuous Discharging Current	50A	100A	200A	200A
Max. Load / Inverter Power	500W	1000W	2000W	2000W
Operating Temperature Range	Charge 0°C~50°C (32°F~122°F) Discharge -20°C~60°C (-4°F~140°F) Storage -20°C~50°C (-4°F~122°F)	Charge 0°C~50°C (32°F~122°F) Discharge -20°C~60°C (-4°F~140°F) Storage -20°C~50°C (-4°F~122°F)	Charge 0°C~50°C (32°F~122°F) Discharge -20°C~60°C (-4°F~140°F) Storage -20°C~50°C (-4°F~122°F)	Charge 0°C~50°C (32°F~122°F) Discharge -20°C~60°C (-4°F~140°F) Storage -20°C~50°C (-4°F~122°F)
Dimension	196*164*165mm 7.7*6.4*6.4inch	320*173*215mm 11.8*6.8*8.4inch	522*240*218mm 20.5*9.4*8.5inch	520*269*220mm 20.4*10.5*8.6inch

Product	12.8V 400AH LiFePO4 Battery	25.6V 100AH LiFePO4 Battery	25.6V 200AH LiFePO4 Battery	51.2V 100AH LiFePO4 Battery
Nominal Voltage	12.8V	25.6V	25.6V	51.2V
Charge Voltage	14.6V	29.2V	29.2V	58.4V
Cycle Life	> 2000 cycles at 100% DoD up to 5000 cycles at 80% DoD	> 2000 cycles at 100% DoD up to 5000 cycles at 80% DoD	> 2000 cycles at 100% DoD up to 5000 cycles at 80% DoD	> 2000 cycles at 100% DoD up to 5000 cycles at 80% DoD
Weight	43.5KG/96LB	23.5KG/51.8LB	43.5KG/96LB	43.5KG/96LB
Energy	5120WH	2560WH	5120WH	5120WH
Max Continuous Charging Current	200A	100A	200A	200A
Max Continuous Discharging Current	200A	100A	200A	200A
Max. Load / Inverter Power	4000W	2000W	4000W	4000W
Operating Temperature Rang	Charge 0°C~50°C (32°F~122°F) Discharge -20°C~60°C (-4°F~140°F) Storage -20°C~50°C (-4°F~122°F)	Charge 0°C~50°C (32°F~122°F) Discharge -20°C~60°C (-4°F~140°F) Storage -20°C~50°C (-4°F~122°F)	Charge 0°C~50°C (32°F~122°F) Discharge -20°C~60°C (-4°F~140°F) Storage -20°C~50°C (-4°F~122°F)	Charge 0°C~50°C (32°F~122°F) Discharge -20°C~60°C (-4°F~140°F) Storage -20°C~50°C (-4°F~122°F)
Dimension	520*269*220mm 20.4*10.5*8.6inch	522*240*218mm 20.5*9.4*8.5inch	520*269*220mm 20.4*10.5*8.6inch	520*269*220mm 20.4*10.5*8.6inch



VIII. Energy storage system

1. Portable Energy Storage



Product parameters

Model	LiFe1280	SSLI1073	SSLI2146
Energy power	1280Wh	1073Wh	2146Wh
Charge volt	29.0-29.4V	29.0-29.4V	29.0-29.4V
Discharge cut-off volt	20V±0.5V	21V±0.5V	21V±0.5V
Charge mode	CC/CV	CC/CV	CC/CV
Charge current	5A standard,10A the max	5A standard,10A the max	5A standard,10A the max
Discharge current	The max continuous 50A	The max continuous 50A	The max continuous 50A
Cycle life	>2000 cycles @0.5C 100%DOD	>1200 cycles @0.5C 100%DOD	>1200 cycles @0.5C 100%DOD
Approximate Dimension	L368xW200xH275mm	L368xW200xH275mm	L368xW200xH275mm
Approximate Weight	15KG	11.5KG	16KG
Shell material	ABS+ Aluminum alloy	ABS+ Aluminum alloy	ABS+ Aluminum alloy
Inverter power	1200W max	1200W max	1200W max
AC input voltage	220 VAC 50HZ & 110 VAC 60HZ	220 VAC 50HZ & 110 VAC 60HZ	220 VAC 50HZ & 110 VAC 60HZ
Solar panel charging power	the max 450W	the max 450W	the max 450W
Open circuit volt	30-45V DC, The max 450W DC	30-45V DC, The max 450W DC	30-45V DC, The max 450W DC
DC output	USB-2/USB-3 5V2.4A USB-1/USB-4 5V/9V/12V 18W Max Type-C *2 5V/9V/12V 30W*2 Max		
Working temperature	Charging 0~55°C Discharging -20°C~60°C Storage 0~45°C	Charging -20~55°C Discharging -30°C~60°C Storage 0~45°C	Charging -20~55°C Discharging -30°C~60°C Storage 0~45°C



Product parameters

Model	MP01-5120	MP01-10240
Inverter	5000W(220V) / 3500W(110V)	5000W(220V) / 3500W(110V)
Battery dimension	L730 x W230 x H525mm	L750 x W255x H635mm
Total weight (approx)	73Kg	105Kg
Input volt	AC220V 50Hz / AC110V 60Hz	AC220V 50Hz / AC110V 60Hz
Frequency	50Hz/60Hz(Automatic adaptation)	50Hz/60Hz(Automatic adaptation)
Output ac voltage range	AC 220V 50Hz / 110V 60Hz / 15A Max	AC 220V 50Hz / 110V 60Hz / 15A Max
Peak power	8000W(220V) / 4000W(110V)	8000W(220V) / 4000W(110V)
Highest conversion rate	88-93%	88-91%
Waveform	Pure sine wave	Pure sine wave
Battery voltage	51.2V	51.2V
Trickle charging voltage	55.2V	55.2V
Over charge protection volt	58.4V	58.4V
Max charge current	40A	60A
Max solar panel power	4200W	4200W
Solar charging current	80A	80A
Open circuit voltage	<145V	<145V
Power loss while standby	2W	2W



2. power storage wall



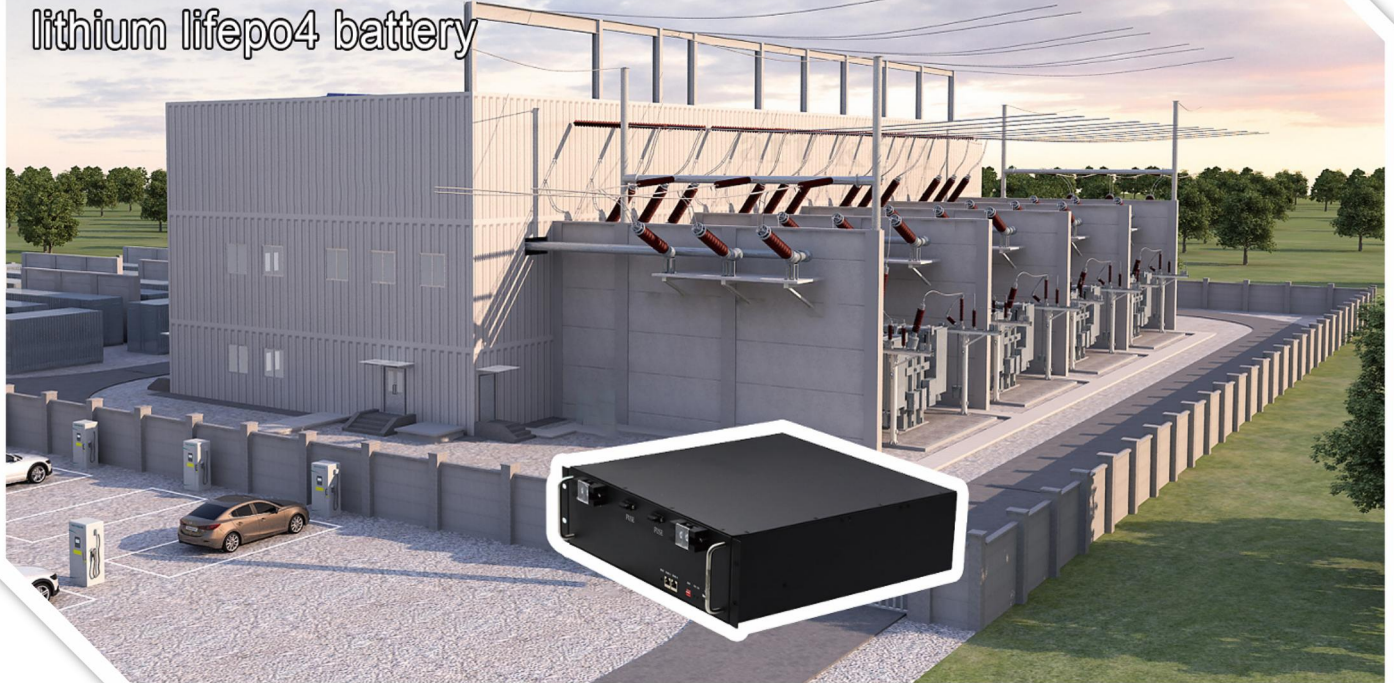
Product parameters

Model	WM5000	WM10000
Energy power	5120Wh	10240Wh
Charge volt	56.8-58.4V	56.8-58.4V
Discharge cut-off volt	40 V (2.5 ±0.05 v) (1-2s)	40 V (2.5 ±0.05 v) (1-2s)
Charge current	20A	20A
Discharge current	100A	100A
Cycle life	3000 times DOD100% (0.5C)	3000 times DOD100% (0.5C)
Approximate Dimension	L510 x W590 x T158mm	L975 x W590 x T158mm
Approximate Weight	50kgs	85kgs
Shell material	SPCC	SPCC
Working temperature	Charging 32 to 131 °F (0 to 55 °C) Discharging -4 to 140 °F (-20 to 60 °C)	



3. Energy storage system

Telecom station
lithium lifepo4 battery



Product parameters

Model	Nominal Voltage	Rated Capacity	Max Discharge Current	Dimension
RM4820-1U	51.2V	20Ah	20A	442x530x45mm
RM4830-2U	51.2V	30Ah	30A	442x420x134mm
RM4850-3U	51.2V	50Ah	50A	442x420x134mm
RM4875-5U	51.2V	75Ah	75A	442x420x222mm
RM48100-5U	51.2V	100Ah	100A	442x420x222mm
RM48150-5U	51.2V	150Ah	150A	442x580x222mm
RM48200-6U	51.2V	200Ah	200A	442x580x267mm



2.5Kwh All-in-one Energy Storage System



Product parameters

Model	AIO2500	AIO2500PRO
Energy power	2560Wh	2560Wh
Charge volt	28.8-29.2V	56.8V-58.4V
Discharge cut-off volt	20 V (2.5 ±0.08 vpc) (1s)	40 V (2.5 ±0.08 vpc) (1s)
Charge current	20A	10A
Discharge current	100A	50A
Cycle life	2000 times DOD100% (0.33C)	2000 times DOD100% (0.33C)
Approximate Dimension	L460 x W120 x T775mm	L460 x W155 x T860mm
Approximate Weight	35kgs	40kgs
Shell material	SPCC	SPCC
Working temperature	Charging 32 to 131 °F (0 to 55 °C) Discharging -4 to 140 °F (-20 to 60 °C)	
Inverter Input and Output		
Input Voltage	AC 100-240V 50/60HZ DC 29.2V 10A	AC 220-240V 50HZ 1600W
Output Power	2000W Max	2400W Max
Peak Power	4000W	4800W
Charging current	20A Max	30A Max
Solar charging current	20A Max	30A Max
Open circuit voltage	Max 55V DC (Solar)	Max 110V DC (Solar)



Product parameters

Model	AIO10000
Energy power	10240Wh
Charge volt	56.8-58.4 V
Discharge cut-off volt	40V (2.5 ± 0.08V) (2s)
Charge mode	CC/CA
Max Charge current	40A
Max Discharge current	200A
Cycle life	2000 times DOD100% (0.33C)
Approximate Dimension	L530 x W195 x H1410mm
Approximate Weight	120kg
Shell material	SPCC
Working temperature	Charging 32 to 131 °F (0 to 55 °C) Discharging -4 to 140 °F (-20 to 60 °C)
Communication	RS485
Inverter Input and Output	
Input Voltage	220V 50HZ / 110V 60HZ
Output Power	5000W Max
peak Power	8000W(220V) / 4000W(110V)
Charging current	60A Max
Solar panel power	60-145V 4200W Max
Solar charging current	80A Max

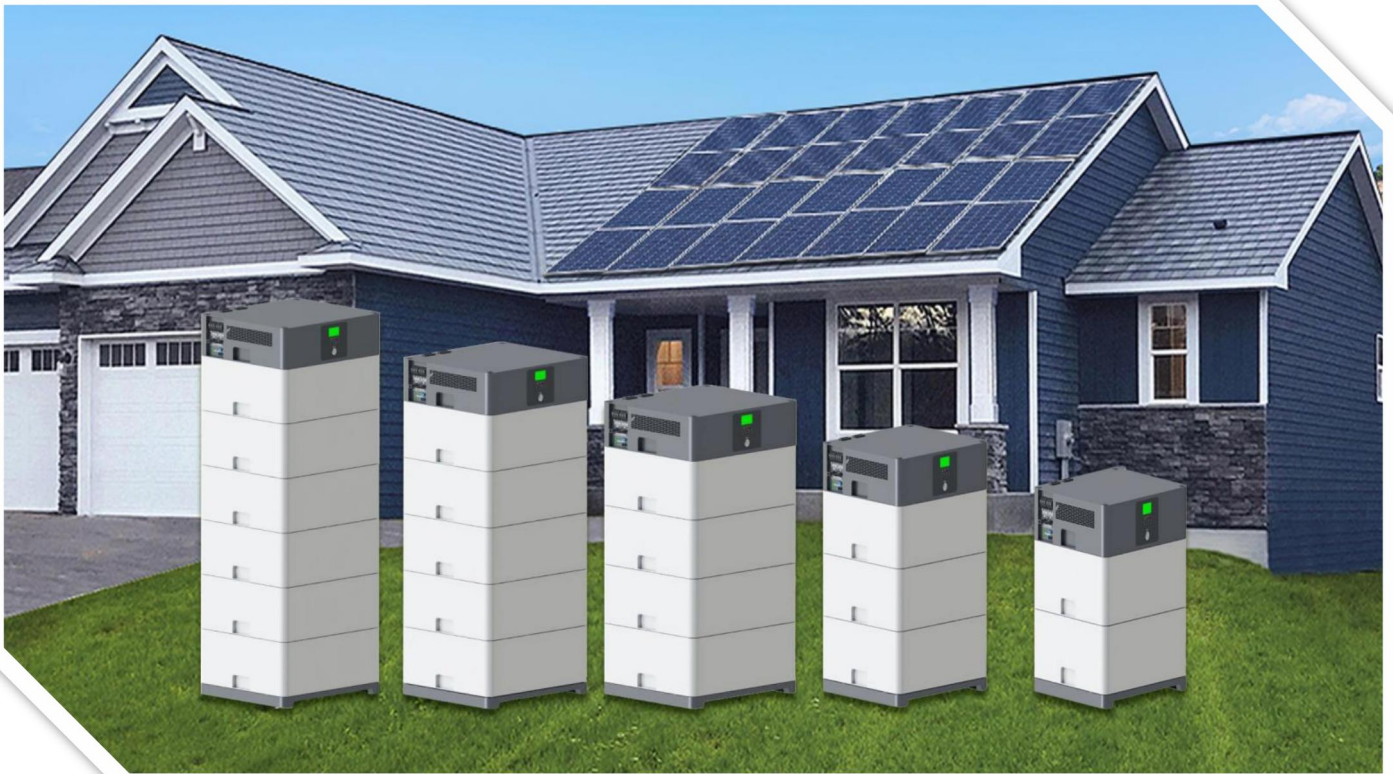


Product parameters

Model	AIO30000
Energy power	30720Wh
Charge volt	56.8-58.4 V
Discharge cut-off volt	40V (2.5 ± 0.05V) (2s)
Charge mode	CC/CA
Max Charge current	60A
Max Discharge current	150A
Cycle life	2000 times DOD100% (0.5C)
Approximate Dimension	L600 x W520 x H1200mm
Approximate Weight	380kg
Shell material	SPCC
Working temperature	Charging 32 to 131 °F (0 to 55 °C) Discharging -4 to 140 °F (-20 to 60 °C)
Communication	RS485

Inverter Input and Output

Input Voltage	220V 50HZ / 110V 60HZ
Output Power	5000W Max
Peak Power	8000W(220V) / 4000W(110V)
Charging current	80A Max
Solar panel power	60-145V 4200W Max
Solar charging current	80A Max



Product parameters

Model	AIO10000	AIO15000	AIO20000	AIO25000	AIO30000
Energy power	10KWh	15KWh	20KWh	25KWh	30KWh
Charge volt	56.8-57.6V	56.8-57.6V	56.8-57.6V	56.8-57.6V	56.8-57.6V
Discharge cut-off volt	43.2V±0.5V	43.2V±0.5V	43.2V±0.5V	43.2V±0.5V	43.2V±0.5V
Charge mode	CC/CA	CC/CA	CC/CA	CC/CA	CC/CA
Max Charge current	120A	120A	120A	120A	120A
Max Discharge current	125A	125A	125A	125A	125A
Cycle life	>2000 cycles @0.5C 100%DOD				
Approximate Dimension	L560xW380xH630mm	L560xW380xH850mm	L560xW380xH1070mm	L560xW380xH1290mm	L560xW380xH1510mm
Approximate Weight	150kgs	205kgs	260kgs	305kgs	360kgs
Shell material	SPCC	SPCC	SPCC	SPCC	SPCC
Working temperature	Charging 0~55°C Discharging -20°C~60°C Storage 0~45°C				
Communication	RS485/CAN	RS485/CAN	RS485/CAN	RS485/CAN	RS485/CAN

Inverter Input and Output

Input Voltage	220 VAC 50HZ & 110 VAC 60HZ
Output Power	5000W Max (Support 2pcs inverter into parallel connection)
Peak Power	10000W
Charging current	40A Max
Solar panel power	5000W 120V-500V
Solar charging current	0-80A
Open circuit voltage	Max 500V DC (Solar)



Product parameters

Model	GC3650	GC36100	GC4850	GC48100	GC72100
Nominal capacity	50Ah	100Ah	50Ah	100Ah	100Ah
Nominal voltage	38.4V	38.4V	51.2V	51.2V	76.8V
Energy	1920Wh	3840Wh	2560Wh	5120Wh	7680Wh
Charge voltage	42.6-43.8V	42.6-43.8V	56.8-58.4V	56.8-58.4 V	85.2-87.6V
Max.Charge current	50A	100A	50A	100A	100A
Max.continuous Discharge curren	50A	100A	50A	100A	100A
Peak Discharge current	300A(3-5S)	600A(3-5S)	300A(3-5S)	600A(3-5S)	600A(3-5S)
Discharge Cut-off voltage	28.8V (2.4±0.08V) (2S)	28.8V (2.4±0.08V) (2S)	38.4 V (2.4±0.05V) (1-2S)	38.4V (2.4±0.05V) (1-2S)	60V (2.5±0.05V) (1-2S)
Dimension	L350 x W320 x H220mm	L420 x W320 x H220mm	L350 x W320 x H220mm	L600 x W320 x H220mm	L780 x W320 x H220mm
Weight	17Kg	35Kg	25Kg	45Kg	65Kg
Working Temperature range	Discharge: -4 to 140 °F (-20 to 60 °C) Charge: 32 to 131 °F (0 to 55 °C)				
Storage temperature	14 to 113 °F (-10 to 45°C)				



Product parameters

Nominal capacity	CESS50	CESS100	CESS200
Energy	51.2KWh	102.4KWh	204.8kwh
Charge voltage	584V	584V	584V
Discharge cut-off voltage	400V	400V	400V
Cycle life	3000 times	3000 times	3000 times
PACK iron box size	L482 (442) Xw440xH177.5mm	W482(442)xL520xH245mm	W482(442)xL520xH245mm
PDU Master control iron box size	L482 (442) xW440xH222mm	W482 (442) xL450xH222mm	W482 (442) xL450xH222mm
Cabinet size	T800xW1200xH1450mmX2	W800xL1200xH1800mmX2	W800xL1200xH1800mmX2
Output wire	DW38-2P terminal-through type	DW38-2P Terminal	DW38-2P Terminal
Communication	CAN	CAN/RS485	CAN/RS485
Weight	Approx. 600kg	Approx. 900kg	Approx. 1800kg
Storage temperature	-10°C--50°C	-10°C--50°C	-10°C--50°C
Working temperature range	Charge: 0°C--45°C, Discharge: -20°C--60°C		
Charge method & Current	CC/CV, standard continuous charge current 40A, the max continuous charge current 100A		
Discharge Current	Standard continuous discharge current 40A, the max continuous discharge current 100A		



Industrial and Commercial Energy Storage System

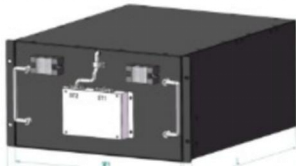
512V 200AH 100KWH project



30KW PCS



512V BMSmaster
control



51.2V200AH module





Product parameters

Nominal Capacity	51.2V1200Ah
Energy	61440Wh
Charge Voltage	58.4V
Discharge cut-off voltage	40V
Cycle Life	2000 times (次)
Cabinet size	L1150*W1200*H1200mm
AC Output	AC220V and AC380V 30KW Max
AC Input	AC380V 21KW Max
Charger Input	AC220V DC 58.4V 50A 2920W
Weight	Approx. 830kg
Storage Temperature	-10°C~50°C
Working Temperature Range	Charge:0°C~55°C Discharge: -20°C~60°C
LCD	4.3
Remote monitoring	APP、GPS

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