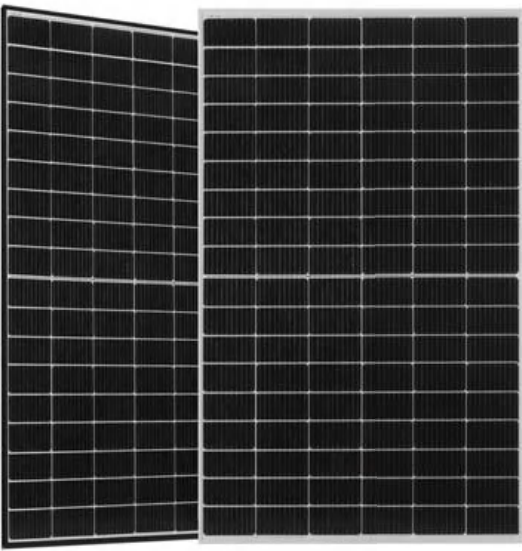
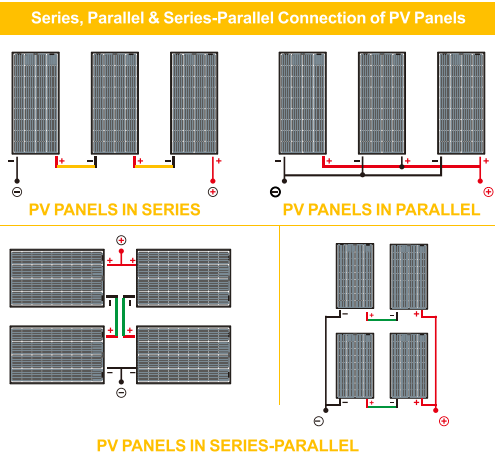


Mono-facial Module



Positive power tolerance of 0~+3%

- IEC61215(2016), IEC61730(2016)
- ISO9001:2015: Quality Management System
- ISO14001:2015: Environment Management System
- ISO45001:2018 Occupational Health and Safety Management Systems



Key Features

Multi Busbar Technology

Better light trapping and current collection to improve module power output and reliability.

Reduced Hot Spot Loss

Optimized electrical design and lower operating current for reduced hot spot loss and better temperature coefficient.

PID Resistance

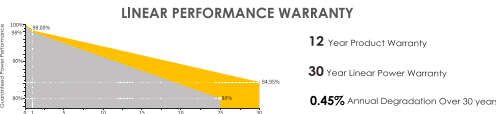
Excellent Anti-PID performance guarantee via optimized mass-production process and materials control.

Durability Against Extreme Environmental Conditions

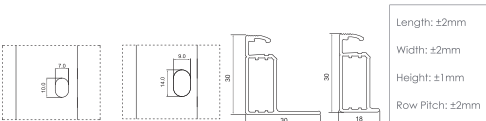
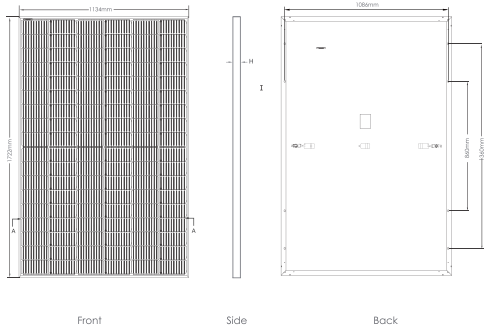
High salt mist and ammonia resistance.

Enhanced Mechanical Load

Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal).



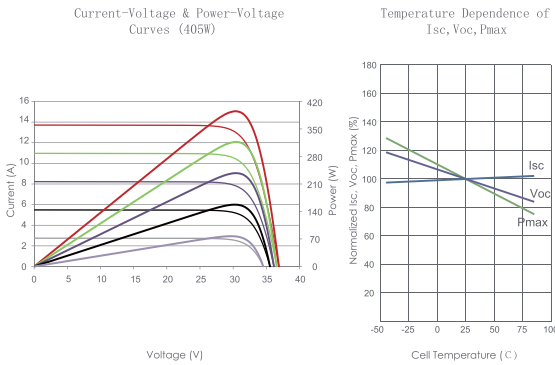
Engineering Drawings



Packaging Configuration

36pcs/pallets, 72pcs/stack, 936pcs/ 40'HQ Container

Electrical Performance & Temperature Dependence



Mechanical Characteristics

Cell Type	P type Mono-crystalline
No. of cells	108 (2x54)
Dimensions	1722×1134×30mm (67.80×44.65×1.18 inch)
Weight	22.0 kg (48.50 lbs)
Front Glass	3.2mm, Anti-Reflection Coating, High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68 Rated
Output Cables	TUV 1×4.0mm ² (+): 300mm, (-): 300mm or Customized Length

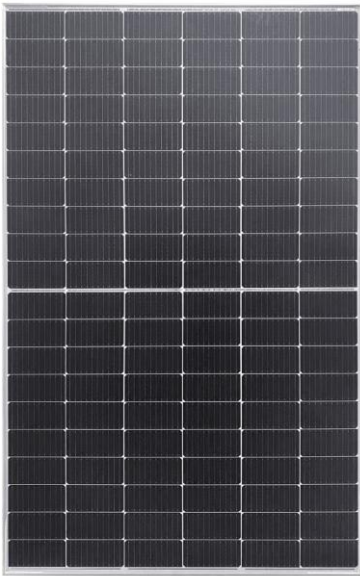
SPECIFICATIONS

Module Type	400W(108)		405W(108)		410W(108)		415W(108)	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	400Wp	298Wp	405Wp	301Wp	410Wp	305Wp	415Wp	309Wp
Maximum Power Voltage (Vmp)	30.42V	28.42V	30.52V	28.56V	30.62V	28.72V	30.79V	28.88V
Maximum Power Current (Imp)	13.15A	10.47A	13.27A	10.55A	13.39A	10.62A	13.48A	10.69A
Open-circuit Voltage (Voc)	36.98V	34.90V	37.06V	34.98V	37.14V	35.05V	37.31V	35.21V
Short-circuit Current (Isc)	13.78A	11.13A	13.85A	11.19A	13.92A	11.24A	14.01A	11.32A
Module Efficiency STC (%)	20.48%		20.74%		21.00%		21.25%	
Operating Temperature(°C)	-40°C~+85°C							
Maximum system voltage	1000/1500VDC (IEC)							
Maximum series fuse rating	25A							
Power tolerance	0~+3%							
Temperature coefficients of Pmax	-0.35%/°C							
Temperature coefficients of Voc	-0.28%/°C							
Temperature coefficients of Isc	0.048%/°C							
Nominal operating cell temperature (NOCT)	45±2°C							

*STC: Irradiance 1000W/m² Cell Temperature 25°C AM=1.5

NOCT: Irradiance 800W/m² Ambient Temperature 20°C AM=1.5 Wind Speed 1m/s

Mono-facial Module



Positive power tolerance of 0~+3%

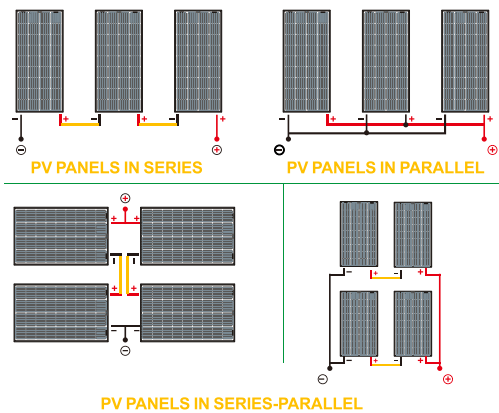
IEC61215(2016), IEC61730(2016)

ISO9001:2015: Quality Management System

ISO14001:2015: Environment Management System

ISO45001:2018
Occupational Health and Safety Management Systems

Series, Parallel & Series-Parallel Connection of PV Panels



Key Features



MBB Technology

Better light trapping and current collection to improve module power output and reliability.



Durability Against Extreme Environmental Conditions

High salt mist and ammonia resistance.



Hot 2.0 Technology

The P-type module with Hot 2.0 technology has better reliability and lower LID/LETID.



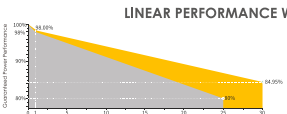
Enhanced Mechanical Load

Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal).



PID Resistance

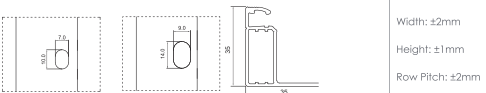
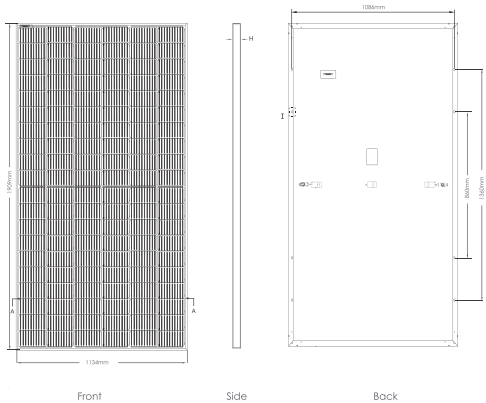
Excellent Anti-PID performance guarantee via optimized mass-production process and materials control.



12 Year Product Warranty
30 Year Linear Power Warranty
0.45% Annual Degradation Over 30 years



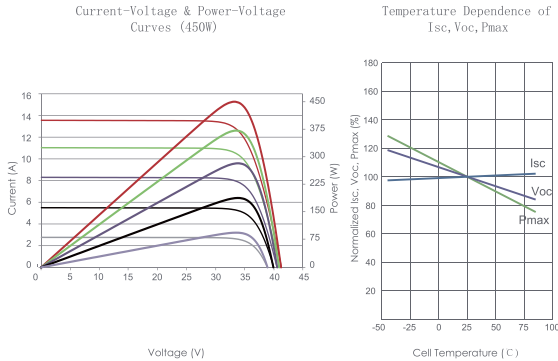
Engineering Drawings



Packaging Configuration

31 pcs/pallets, 62 pcs/stack, 744 pcs/ 40'HQ Container

Electrical Performance & Temperature Dependence



Mechanical Characteristics

Cell Type	182 P type Mono-crystalline
No. of cells	120 (6×20)
Dimensions	1909×1134×35mm
Weight	22.5kg
Front Glass	3.2mm, Anti-Reflection Coating, High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68 Rated
Output Cables	TUV 1×4.0mm (+): 300mm, (-): 300mm or Customized Length

SPECIFICATIONS

Module Type	450W(120)		455W(120)		460W(120)		465W(120)	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	450Wp	335Wp	455Wp	339Wp	460Wp	342Wp	465Wp	346Wp
Maximum Power Voltage (Vmp)	33.91V	31.73V	34.06V	31.91V	34.20V	32.07V	34.37V	32.12V
Maximum Power Current (Imp)	13.27A	10.55A	13.36A	10.61A	13.45A	10.67A	13.53A	10.77A
Open-circuit Voltage (Voc)	41.18V	38.87V	41.33V	39.01V	41.48V	39.15V	41.63V	39.29V
Short-circuit Current (Isc)	13.85A	11.19A	13.93A	11.25A	14.01A	11.32A	14.09A	11.38A
Module Efficiency STC (%)	20.85%		21.08%		21.32%		21.55%	
Operating Temperature(°C)	-40°C~+85°C							
Maximum system voltage	1000/1500VDC (IEC)							
Maximum series fuse rating	25A							
Power tolerance	0~+3%							
Temperature coefficients of Pmax	-0.35%/°C							
Temperature coefficients of Voc	-0.28%/°C							
Temperature coefficients of Isc	0.048%/°C							
Nominal operating cell temperature (NOCT)	45±2°C							

*STC: Irradiance 1000W/m² Cell Temperature 25°C AM=1.5
NOCT: Irradiance 800W/m² Ambient Temperature 20°C AM=1.5 Wind Speed 1m/s

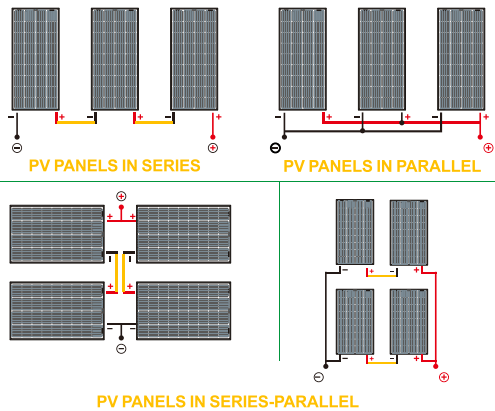
Mono-BIFACIAL Module



Positive power tolerance of 0~+3%

IEC61215(2016), IEC61730(2016)
ISO9001:2015: Quality Management System
ISO14001:2015: Environment Management System
ISO45001:2018 Occupational Health and Safety Management Systems

Series, Parallel & Series-Parallel Connection of PV Panels



Key Features



MBB Technology
Better light trapping and current collection to improve module power output and reliability.



Hot 2.0 Technology
The P-type module with Hot 2.0 technology has better reliability and lower LD/LETID.



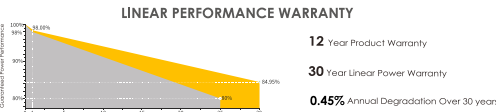
PID Resistance
Excellent Anti-PID performance guarantee via optimized mass-production process and materials control.



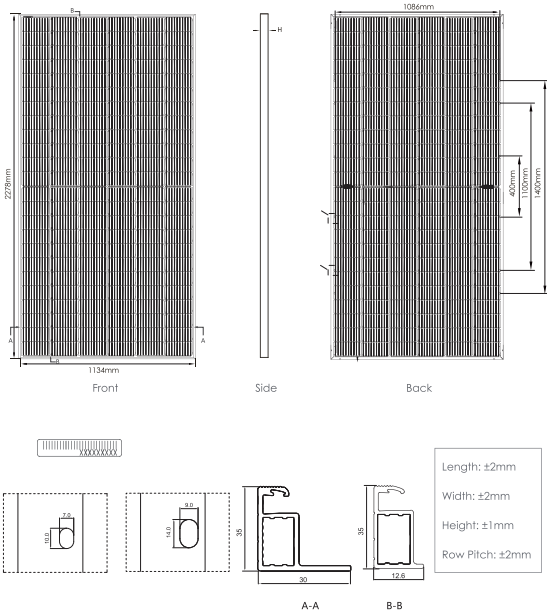
Durability Against Extreme Environmental Conditions
High salt mist and ammonia resistance.



Enhanced Mechanical Load
Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal).



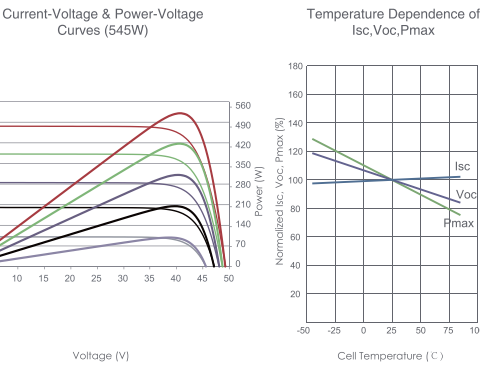
Engineering Drawings



Packaging Configuration

31 pcs/pallets, 62 pcs/stack, 620 pcs/ 40'HQ Container

Electrical Performance & Temperature Dependence



Mechanical Characteristics

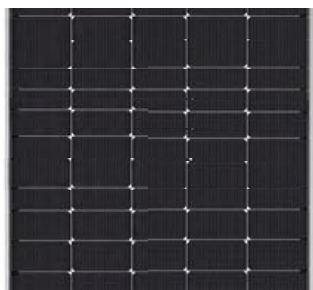
Cell Type	182 P type Mono-crystalline
No. of cells	144 (6×24)
Dimensions	2278×1134×35mm
Weight	30.5 kg
Front Glass	2.0mm, Anti-Reflection Coating
Back Glass	2.0mm, Heat Strengthened Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68 Rated
Output Cables	TUV 1×4.0mm ² (+): 300mm, (-): 300mm or Customized Length

SPECIFICATIONS

Module Type	540W(144)		545W(144)		550W(144)		555W(144)	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	540Wp	402Wp	545Wp	405Wp	550Wp	409Wp	555Wp	413Wp
Maximum Power Voltage (Vmp)	40.70V	38.08V	40.80V	38.25V	40.90V	38.42V	40.99V	38.59V
Maximum Power Current (Imp)	13.27A	10.55A	13.36A	10.60A	13.45A	10.65A	13.54A	10.70A
Open-circuit Voltage (Voc)	49.42V	46.65V	49.52V	46.74V	49.62V	46.84V	49.72V	46.93V
Short-circuit Current (Isc)	13.85A	11.19A	13.94A	11.26A	14.03A	11.33A	14.12A	11.40A
Module Efficiency STC (%)	20.90%		21.10%		21.29%		21.48%	
Operating Temperature(°C)	-40°C~+85°C							
Maximum system voltage	1000/1500VDC (IEC)							
Maximum series fuse rating	25A							
Power tolerance	0~+3%							
Temperature coefficients of Pmax	-0.35%/°C							
Temperature coefficients of Voc	-0.28%/°C							
Temperature coefficients of Isc	0.048%/°C							
Nominal operating cell temperature (NOCT)								
45±2°C								
BIFACIAL OUTPUT-REARSIDE POWER GAIN								
5%	Maximum Power (Pmax)	562Wp	567Wp	572Wp	578Wp	583Wp		
	Module Efficiency STC (%)	21.76%	21.95%	22.15%	22.36%	22.56%		
15%	Maximum Power (Pmax)	615Wp	621Wp	627Wp	633Wp	638Wp		
	Module Efficiency STC (%)	23.81%	24.04%	24.26%	24.48%	24.71%		
25%	Maximum Power (Pmax)	669Wp	675Wp	681Wp	688Wp	694Wp		
	Module Efficiency STC (%)	25.90%	26.13%	26.37%	26.61%	26.86%		

*STC: Irradiance 1000W/m² Cell Temperature 25°C AM=1.5
NOCT: Irradiance 800W/m² Ambient Temperature 20°C AM=1.5 Wind Speed 1m/s

Mono-facial Module



Positive power tolerance of 0~+3%

IEC61215(2016), IEC61730(2016)

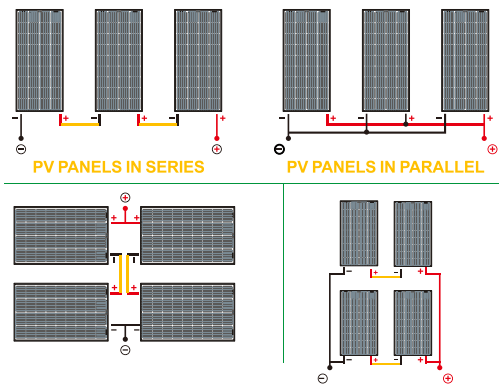
ISO9001:2015: Quality Management System

ISO14001:2015: Environment Management System

ISO45001:2018

Occupational Health and Safety Management Systems

Series, Parallel & Series-Parallel Connection of PV Panels



PV PANELS IN SERIES-PARALLEL

Key Features



MBB Technology

Better light trapping and current collection to improve module power output and reliability.



Hot 2.0 Technology

The P-type module with Hot 2.0 technology has better reliability and lower LD/LETID.



PID Resistance

Excellent Anti-PID performance guarantee via optimized mass-production process and materials control.



Durability Against Extreme Environmental Conditions

High salt mist and ammonia resistance.

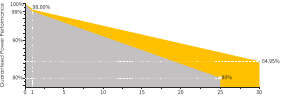


Enhanced Mechanical Load

Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal).



LINEAR PERFORMANCE WARRANTY



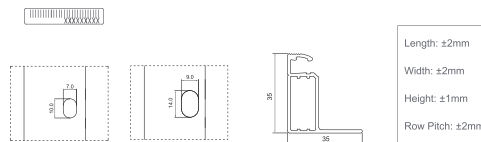
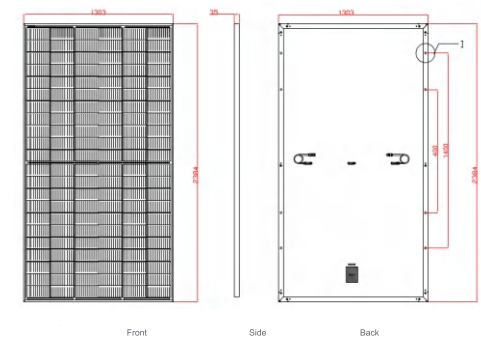
12 Year Product Warranty

30 Year Linear Power Warranty

0.45% Annual Degradation Over 30 years



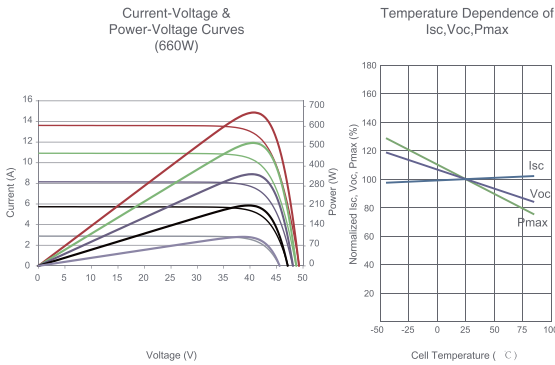
Engineering Drawings



Packaging Configuration

31pcs/pallets, 62pcs/stack, 558pcs/ 40'HQ Container

Electrical Performance & Temperature Dependence



Mechanical Characteristics

Cell Type	210 P type Mono-crystalline
No. of cells	132(6*22)
Dimensions	2384 x 1303x 35 mm
Weight	33.5kg
Front Glass	3.2mm, Anti-Reflection Coating, High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68 Rated
Output Cables	TUV 1×4.0mm ² (+): 300mm, (-): 300mm or Customized Length

SPECIFICATIONS

Module Type	650W(132)		655W(132)		660W(132)		665W(132)		670W(132)	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	650Wp	492.07Wp	655Wp	495.85Wp	660Wp	499.64Wp	665Wp	503.42Wp	670Wp	507.21Wp
Maximum Power Voltage (Vmp)	45.50V	41.79V	45.70V	42.03V	45.90V	42.26V	46.10V	42.50V	46.32V	42.74V
Maximum Power Current (Imp)	18.45A	15.11A	18.50A	15.15A	18.55A	15.17A	18.60A	15.21A	18.65A	15.23A
Open-circuit Voltage (Voc)	37.88V	34.24V	38.06V	34.43V	38.24V	34.63V	38.42V	34.82V	38.59V	25.02V
Short-circuit Current (Isc)	17.16A	14.37A	17.21A	14.40A	17.26A	14.42A	17.31A	14.46A	17.36A	14.48A
Module Efficiency STC (%)	20.90%		21.10%		21.29%		21.48%		21.69%	
Operating Temperature(°C)	-40°C~+85°C									
Maximum system voltage	1000/1500VDC (IEC)									
Maximum series fuse rating	25A									
Power tolerance	0~+3%									
Temperature coefficients of Pmax	-0.35%/°C									
Temperature coefficients of Voc	-0.28%/°C									
Temperature coefficients of Isc	0.048%/°C									
Nominal operating cell temperature (NOCT)	45±2°C									

*STC: Irradiance 1000W/m² Cell Temperature 25°C AM=1.5
NOCT: Irradiance 800W/m² Ambient Temperature 20°C AM=1.5 Wind Speed 1m/s

3600w-6200w(24v-48v)



PRODUCT FEATURES

- Pure sine wave inverter.
- Compatible to AC mains or generator power.
- Configurable AC/Solar input priority via LCD setting.
- Cold start funcion.
- Overload/ Over temperature/short circuit protection.
- Selectable input voltage range for home appliances and personel computers.
- Built-in MPPT solar controller.
- Auto restart while AC is recovering.
- Status indication with RGB lights.

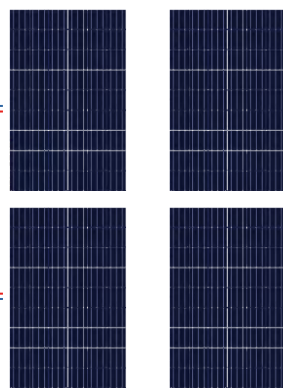
SPECIFICATIONS

RATED POWER	3600W	6200W
INPUT		
Voltage	230 VAC	
Selectable Voltage Range	170-280 VAC (For Personal Computers) 90-280 VAC (For Home Appliances)	
Frequency Range	50 Hz/60 Hz (Auto sensing)	
OUTPUT		
AC Voltage Regulation (Batt. Mode)	230VAC ± 5%	
Surge Power	7200VA	12400VA
Efficiency (Peak) PV to INV	97%	
Efficiency (Peak) Battery to INV	94%	
Transfer Time	10 ms (For Personal Computers) ; 20 ms (For Home Appliances)	
Output Port	single output	Dual output(Smart load)
Waveform	Pure sine wave	
BATTERY & AC CHARGER		
Battery Voltage	24 VDC	48 VDC
Floating Charge Voltage	27 VDC	54 VDC
Overcharge Protection	33 VDC	61 VDC
Maximum Charge Current	100 A(From grid)	
SOC display	Shows battery State of charge in percentage and in voltage as well	
Sleeping Mode	YES	
Battery voltage low cut off selectable	21V-24V	42V-49V
Battery High voltage range selectable	25V-30V	50-60V
Works without Battery	YES	
SOLAR CHARGER		
Maximum PV Array Power	5000W	6500W
MPPT Range @ Operating Voltage	60 ~ 450 VDC	
Maximum PV Array Open Circuit Voltage	500 VDC	
Maximum Charging Current	120 A	
Maximum Efficiency	98%	
PHYSICAL		
Dimension, D x W x H (mm)	128*300*363	
Net Weight (kgs)	8.7	10.6
Communication interface	RS485/ Wifi option(BMS Compatible with lithium battery using RS-485)	
LCD display	General LCD	
OPERATING ENVIRONMENT		
Humidity	5% to 95% Relative Humidity(Non-condensing)	
Operating Temperature	0°C - 55°C	
Storage Temperature	-15°C - 60°C	

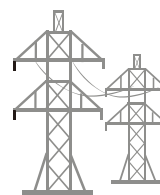
Green Power to Home



Solar Panel



Power grid



Battery bank



1500w-3000w(12v-24v)



PRODUCT FEATURES

- Pure sine wave inverter.
- Compatible to AC mains or generator power.
- Configurable AC/Solar input priority via LCD setting.
- Cold start funcion.
- Overload/ Over temperature/short circuit protection.
- Selectable input voltage range for home appliances and personel computers.
- Built-in MPPT solar controller.
- Auto restart while AC is recovering.
- Status indication with RGB lights.

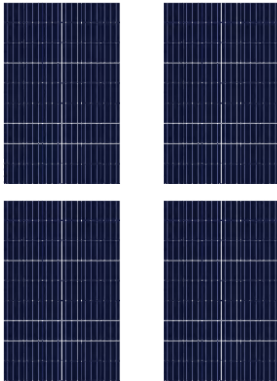
SPECIFICATIONS

RATED POWER	1500W	2500W	1750W	3000W
INPUT				
Voltage	230 VAC			
Selectable Voltage Range	170-280 VAC (For Personal Computers) 90-280 VAC (For Home Appliances)			
Frequency Range	50 Hz/60 Hz (Auto sensing)			
OUTPUT				
AC Voltage Regulation (Batt. Mode)	230VAC ± 5%			
Surge Power	3000VA	5000VA	3500VA	6000VA
Efficiency (Peak) PV to INV	97%			
Efficiency (Peak) Battery to INV	94%			
Transfer Time	10 ms (For Personal Computers) ; 20 ms (For Home Appliances)			
Output Port	single output			
Waveform	Pure sine wave			
BATTERY & AC CHARGER				
Battery Voltage	12 VDC	24 VDC		
Floating Charge Voltage	13.5 VDC	27 VDC		
Overcharge Protection	16 VDC	33 VDC		
Maximum Charge Current	80 A			
Works without Battery	NO		YES	
SOLAR CHARGER				
Maximum PV Array Power	2000W	3000W		4000W
MPPT Range @ Operating Voltage	60 ~ 430 VDC		60 ~ 450 VDC	
Maximum PV Array Open Circuit Voltage	450 VDC		500 VDC	
Maximum Charging Current	80 A			
Maximum Efficiency	98%			
PHYSICAL				
Dimension, D x W x H (mm)	128*300*363			
Net Weight (kgs)	6.9	8.5		8.7
Communication interface	USB/RS232			
LCD display	General LCD			
OPERATING ENVIRONMENT				
Humidity	5% to 95% Relative Humidity(Non-condensing)			
Operating Temperature	0°C - 55°C			
Storage Temperature	-15°C - 60°C			

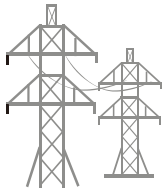
Green Power to Home



Solar Panel



Power grid



Battery bank





SPI series

All-in-one Solar Charger Inverter

SPI4880U200-H SPI48100U200-H



120/240



48V



8-10kW



500V



IP20

/ Efficient

Dual MPPT with up to 99.9% efficiency
Up to 22A PV input current perfect for high power modules

/ User-friendly

Industrial design with a modern aesthetic look
Easy to install and simple to use

/ All-in-one

Solar Charger Controller up to 200A charging current
Support for Li-ion battery BMS communication

/ Reliable

Outputs high quality pure sine wave AC power
8-10kW load power to meet the needs of most households

/ Safety

360 degrees of security from hardware to software
EU and North American safety approvals

/ Intelligent

Exclusive Li-ion battery BMS dual activation
Time-slot function to save cost with peak-valley tariff

SPECIFICATIONS

INVERTER OUTPUT			
Rated Output Power	8,000W	10,000W	
Max.Peak Power	16,000W	20,000W	
Rated Output Voltage	120/240Vac (L1/L2/N/PE split phase)		Y
Load Capacity of Motors	5HP	6HP	
Rated AC Frequency	50/60Hz		Y
Waveform	Pure Sine Wave		
Switch Time	10ms (typical)		
Parallel capacity	/		
BATTERY			
Battery Type	Li-ion / Lead-Acid / User Defined		Y
Rated Battery Voltage	48Vdc		
Voltage Range	40–60Vdc		Y
Max.MPPT Charging Current	200A		Y
Max.Mains/Generator Charging Current	100A	120A	Y
Max.Hybrid Charging Current	180A	200A	Y
PV INPUT			
Num. of MPP Trackers	2		
Max.PV array power	11,000W		
Max.input current	22/22A		
Max.Voltage of Open Circuit	500Vdc		
MPPT Voltage Range	125–425Vdc		
MAINS / GENERATOR INPUT			
Input Voltage Range	90–140Vac		
Frequency Range	50/60Hz		
Bypass Overload Current	63A		
EFFICIENCY			
MPPT Tracking Efficiency	99.9%		
Max. Battery Inverter Efficiency	92%		
GENERAL			
Dimensions	620*435*130mm (2*1.4*0.4ft)		
Weight	20kg (44lb)	21kg (46.3lb)	
Protection Degree	IP20, Indoor Only		
Operating Temperature Range	–15~55°C,>45°C derated (5~131°F, >113°F derated)		
Noise	<60dB		
Cooling Method	Internal Fan		
Warranty	2 Years		
COMMUNICATION			
Embedded Interfaces	RS485 / CAN / USB / Dry contact		Y
External Modules (Optional)	Wi-Fi / GPRS		Y
CERTIFICATION			
Safety	IEC62109–1, IEC62109–2,UL1741		
EMC	EN61000–6–1, EN61000–6–3, FCC 15 class B		
RoHS	Yes		

ON/OFF GRID SOLAR INVERTER



Features

- Pure sine wave solar inverter(on/off Grid)
 - Output power factor 1.0
 - WIFI&GPRS available for IOS and Android
 - Inverter can run without battery
 - One-key restoration to factory Settings
 - Built-in Lithium battery automatic activation
 - Built-in 160A MPPT solar charger (for 8.2kw,10.2kw), 140A(for 7.2kw)
- High PV input voltage range(90~ 500VDC)
 - Built-in anti-dust kit for harsh environment
 - Smart battery charge design to optimize battery life
 - Dual output
 - Dual PV input
 - Touch button
 - On Off Grid Work Mode

Phase	1-phase				
Maximum PV Input Power	8200W	8200W	5400W+5400W	10200W	5400W+5400W
Rated Output Power	7200W/7200VA	8200W/8200VA		10200W/10200VA	
Maximum Solar Charging Current	140A	160A		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	1/23A	1/23A	2/18A	1/23A	2/18A

SPECIFICATIONS

Nominal Output Voltage	220/230/240VAC		
Output Voltage Range	190~253VDC		
Nominal Output Current	31.3A	35.6A	44.3A
Power Factor	>0.99		

EFFICIENCY

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

Full Load	7200W	8200W	10200W
Maxium Main Load	7200W	8200W	10200W
Maxium Second Load(battery mode)	2400W	2733W	3400W
Maxium Load Cut Off Voltage	52VDC	52VDC	52VDC
Maxium Load Return Voltage	54VDC	54VDC	54VDC

OFF-GRID OPERATION

AC INPUT

AC Start-up Voltage / Auto Restart Voltage	120-140VAC/180VAC		
Acceptable Input Voltage Range	90-280VACor170-280VAC		
Frequency Range	49~51±1HZ		
Maximum AC Input Current	40A	40A	50A

PV INPUT (DC)

Nominal DC Voltage/Maximum DC Voltage	360/500VDC				
MPPT Voltage Range	90~450VDC				
Maximum Input Current	1/23A	1/23A	2/18A	1/23A	2/18A

BATTERY MODE OUTPUT (AC)

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

BATTERY & CHARGER

Nominal DC Voltage	48VDC			
Maximum Solar Charging Current	140A	160A	160A	
Maximum AC Charging Current	120A	140A	140A	
Maximum Charging Current	140A	160A	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	1/23A	1/23A	2/18A	1/23A	2/18A

GRID OUTPUT (AC)

Nominal Output Voltage	220/230/240VAC		
Output Voltage Range	190~253VDC		
Nominal Output Current	31.3A	35.6A	44.3A

AC INPUT

AC Start-up Voltage / Auto Restart Voltage	120-140VAC/180VAC		
Acceptable Input Voltage Range	90-280VACor170-180VAC		
Maximum AC Input Current	40A	40A	50A
Maximum AC Charging Current	120A	140A	140A

GENERAL

PHYSICAL

Dimension, D x W x H (mm)	500*390*130	500*390*130	530*420*160	500*390*130	530*420*160
Carton Dimension,D X W XH(mm)	588*463*205		618*463*205	588*463*205	618*463*205
Net Weight (kgs)	13.6	14.5	14.6	14.8	15
Gross Weight(kgs)	14.9	16	16.1	16.2	16.5

INTERACE

Communication Port	RS232/RS485/WIFI/GPRS/LITHIUM BATTERY
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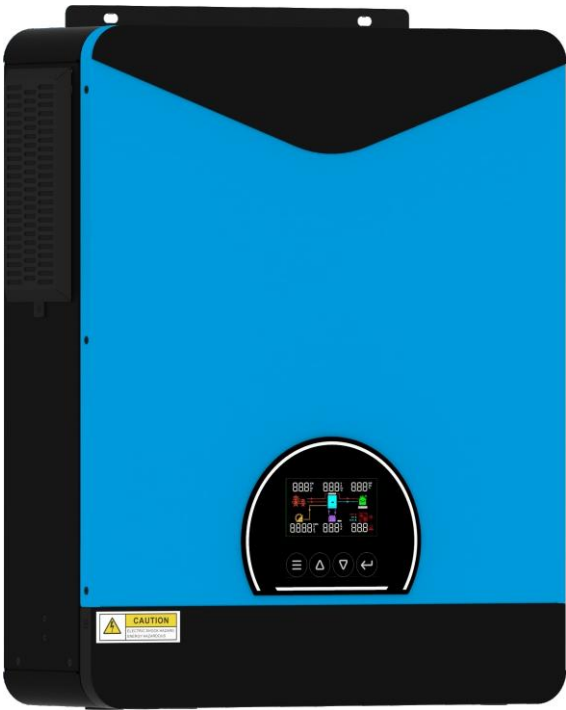
ENVIRONMENT

Humidity	5% to 95% Relative Humidity(Non ~ condensing)
Operating Temperature	-10℃ ~ 50℃

STANDARD

Compliance Safety	CE
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ON/OFF GRID SOLAR INVERTER



Features

- Pure sine wave solar inverter(on/off Grid)
- Output power factor 1.0
- WIFI&GPRS available for IOS and Android
- Inverter can run without battery
- One-key restoration to factory Settings
- Built-in Lithium battery automatic activation
- Built-in 120A MPPT Solar charge:max 6200W(for 3.6KW/4.2KW), max 6500W (for 6.2KW)
- High PV input voltage range(60~500VDC)
- Built-in anti-dust kit for harsh environment
- Smart battery charge design to optimize battery life
- Dual output

Phase	1-phase		
Maximum PV Input Power	6200W	6200W	6500W
Rated Output Power	3600W	4200W	6200W
Maximum Solar Charging Current	120A		

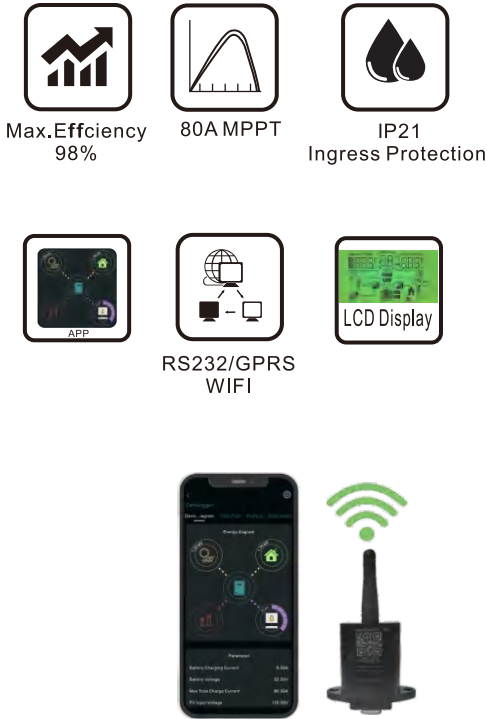
GRID-TIE OPERATION

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	



SPECIFICATIONS

Nominal Output Voltage		220/230/240VAC	
Output Voltage Range	195.5~253VAC		
Nominal Output Current	15.7A	18.2A	27.0A
Power Factor	>0.99		
EFFICIENCY			
Maximum Conversion Efficiency (DC/AC)	98%		
TWO LOAD OUTPUT POWER			
Full Load	3600W	4200W	6200W
Maxium Main Load	3600W	4200W	6200W
Maxium Second Load(battery mode)	1200W	1400W	2067W
Maxium Load Cut Off Voltage	26VDC	26VDC	52VDC
Maxium Load Return Voltage	27VDC	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		
Maximum AC Input Current	30A	30A	40A
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 Waveform	Pure sine wave		
Efficiency (DC to AC)	94%		
BATTERY & CHARGER			
Nominal DC Voltage	24VDC	48VDC	
Maximum Solar Charging Current	120A	140A	120A
Maximum AC Charging Current	100A	100A	100A
Maximum Charging Current	120A	140A	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	195.5~253VAC		
Nominal Output Current	15.7A	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	30A	30A	40A
Maximum AC Charging Current	100A		
GENERAL			
PHYSICAL			
Dimension, D x W x H (mm)	420*350*110		
Carton Dimension,D X W XH(mm)	500*415*180		
Net Weight (kgs)	8	8.5	9
Gross Weight(kgs)	9	9.5	10
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		



Features

- Pure sine wave solar inverter
- Wifi&GPRS available for IOS and android
- Built-in 80A MPPT solar charger
- High PV input voltage range(30~400VDC)
- Built-in anti-dust kit for harsh environment
- Smart battery charge design to optimize battery life
- meet rich customized demands
- Compatible with lithium battery
- Solar energy is provided directly to the load first



SPECIFICATIONS

RATED POWER		2000VA/1600W	3200VA/3000W
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	4000VA	6400VA	
Efficiency(Peak)PV to INV	98%		
Efficiency(Peak)Battery to INV	94%		
Transfer Time	10 ms (For Personal Computers);20 ms (For Home Appliances)		
BATTERY			
Battery Voltage	12VDC	24VDC	
Floating Charge Voltage	13.5VDC	27VDC	
Overcharge Protection	16VDC	33VDC	
SOLAR CHARGER & AC CHARGER			
Solar Charger Type	MPPT		
Maximum PV Array Power	2000W	3000W	
MPPT Range @ Operating Voltage	30~400VDC		
Maximum PV Array Open Circuit Voltage solar	400VDC		
Max Input Current	1/13A		
Maximum Solar Charge Current	80A		
Maximum AC Charge Current	60A		
Maximum Charging Current (Solar+AC)	80A		
PHYSICAL			
Dimension,D*W*H(mm)	357*273*95		
Carton Dimension,D X W XH(mm)	440*340*170		
Net Weight(kgs)	5	5.6	
Gross Weight(kgs)	6	6.3	
Communication interface	RS232/GPRS/WIFI		
ENVIRONMENT			
Humidity	5% to 95% Relative Humidity(Non ~ condensing)		
Operating Temperature	-10°C ~ 50°C		
STANDARD			
Compliance Safety	CE		



Max.Efficiency
98%



IP21
Ingress Protection



40A MPPT



LCD Display

Features

- Pure sine wave solar inverter
- Built-in 40A MPPT solar charger
- 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

SPECIFICATIONS

RATED POWER	1000W/1000VA	1500W/ 1500VA
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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	2000 VA	3000VA
Efficiency(Peak)PV to INV	98%	
Efficiency(Peak)Battery to INV	94%	
Transfer Time	10 ms	

BATTERY		
Battery Voltage	12VDC	24VDC
Floating Charge Voltage	13.5VDC	27VDC
Overcharge Protection	16VDC	32VDC

SOLAR CHARGER & AC CHARGER		
Solar Charger Type	MPPT	
Maximum PV Array Power	600W	1200W
MPPT Range @ Operating Voltage	20~150VDC	30~150VDC
Maximum PV Array Open Circuit Voltage solar	150VDC	
Maximum Solar Charge Current	40A	
Maximum AC Charge Current	40A	
Maximum Charging Current (Solar+AC)	80A	

PHYSICAL		
Dimension,D*W*H(mm)	290*240*91	
Carton Dimension,D X W XH(mm)	340*295*145	
Net Weight(kgs)	3	3.5
Gross Weight(kgs)	3.5	4

ENVIRONMENT		
Humidity	5% to 95% Relative Humidity(Non - condensing)	
Operating Temperature	-10℃ ~ 50℃	

STANDARD		
Compliance Safety	CE	

➔ All-in-one solar charge inverter

HF4830S60-H/HF4850S80-H
HF4835U60-H/HF4850U80-H



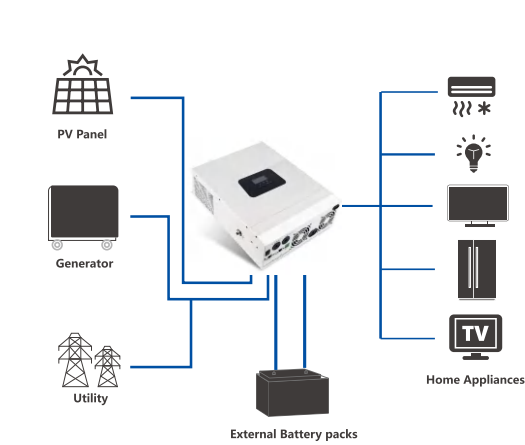
Performance characteristics

- Full digital voltage and current double closed loop control, advanced SPWM technology, output of pure sine wave.
- Two output modes: mains bypass and inverter output; uninterrupted power supply.
- Available in 4 charging modes: Only Solar, Mains Priority, Solar Priority and Mains & Solar hybrid charging.
- Advanced MPPT technology with an efficiency of 99.9%.
- With the charging requirement (voltage, current, mode) settings, and suitable for various types of energystorage batteries.
- ON/OFF rocker switch for AC output control.
- Power saving mode available to reduce no-load loss.
- Intelligent variable speed fan to efficiently dissipate heat and extend system life.
- Lithium battery activation design, allowing access of lead-acid battery and lithium battery.
- 360 ° all-round protection with a number of protection functions. Such as overload,short circuit and overcurrent.
- Supply of a variety of user-friendly communication modules, such as Rs485 (GPRS,WiFi), CAN, USB etc., and suitable for computer, mobile phones, Internetmonitoring as well as remote operations.

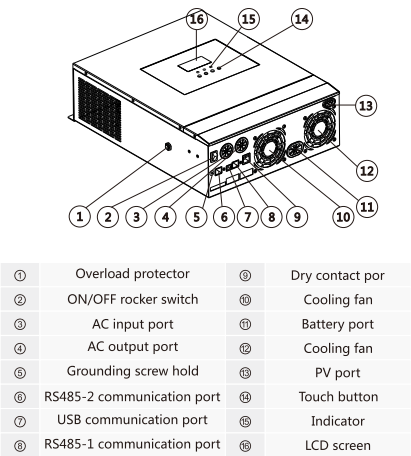
Application scenarios



Product connection diagram



Product characteristics



PARAMETETS

AC mode				
Rated input voltage	220/230Vac		110/120Vac	
Input voltage range	(170Vac~280Vac) ±2% ; (90Vac-280Vac)±2%		(90Vac~140Vac)±2%	
Frequency	50Hz/ 60Hz (auto-sensing)			
Frequency Range	47±0.3Hz ~ 55±0.3Hz (50Hz)/57±0.3Hz ~ 65±0.3Hz (60Hz);			
Overload/short circuit protection	Breaker			
Efficiency	>95%			
Conversion time (bypass and inverter)	10ms (Typical value)			
AC reverse protection	Available			
Maximum bypass overload current	40A		63A	
Inverting mode				
Output voltage waveform	Pure sine wave			
Rated output power(VA)	3000 (2600/2700/3000)	5000 (4350/4500/4800/5000)	3500(2900/3000/3200)	5000(4100/4300/4500)
Rated output power(W)	3000 (2600/2700/3000)	5000 (4350/4500/4800/5000)	3500(2900/3000/3200)	5000(4100/4300/4500)
Power factor	1			
Rated output voltage (Vac)	230Vac (200/208/220/240Vac settable)		120Vac (100/105/110Vac settable)	
Output voltage error	±5%			
Output frequency range (Hz)	50Hz ± 0.3Hz/60Hz ± 0.3Hz			
Efficiency	>90%			
Overload protection	(102%<load<125%) ±10%: reporting error and turn off the output after 5 minutes; (125%<load<150%) ±10%: reporting error andturn off the output after 10 seconds; Load>150% ±10%: reporting error and turn offthe output after 5 seconds;		(102%<load<110%) ±10%: reporting error and turn off the output after 5 minutes; (110%<load<125%) ±10%: reporting error andturn off the output after 10 seconds; Load>125% ±10%: reporting error and turn offthe output after 5 seconds;	
Peak power	6000VA	10000VA	5000VA	7000VA
Loaded motor capacity	2HP	4HP	2HP	3HP
Output short-circuit protection	Breaker			
Specification of bypass breaker	40A		63A	
Rated battery input voltage	48V (minimum start voltage 44V)			
Battery voltage range	40.0Vdc~60Vdc ± 0.6Vdc (undervoltage alarm/turnoff voltage/overvoltage alarm/overvoltage restoration...settable LCD screen)			
Power saving mode	Load ≤50W			
AC charge				
Battery type	Lead acid or lithium battery			
Maximum charge current	60A		40A	
Charge current error	± 5Adc			
Charge voltage range	40Vdc~60Vdc			
Short-circuit protection	Breaker and blown fuse			
Breaker specification	40A		63A	
Overcharge protection	Turn off charge after 1min alarm			
Solar charge				
Maximum PV opencircuit voltage	500Vdc		450Vdc	500Vdc
PV operation voltage range	120-500Vdc		120-450Vdc	120-500Vdc
MPPT voltage range	120-450Vdc		120-430Vdc	120-450Vdc
Battery voltage range	40-60Vdc			
Maximum output power	4200W	5000W	4200W	5000W
Charge current range of solar energy (settable)	0-60A	0-80A	0-60A	0-80A
Charge short-circuit protection	Blown fuse			
Wiring protection	Inverse wiring protection			
Authentication specification				
Specification authentication	CE(IEC62109)、RoHs			
EMC authentication grade	EN61000			
Operation temperature range	-15°C to 55°C			
Storage temperature range	-25°C ~ 60°C			
Humidity range	5% to 95% (Conformal coating protection)			
Noise	≤60dB			
Thermal dissipation	Forced cooling with adjustable air speed			
Communication interface	USB/RS485 (WiFi/GPRS)/dry node control			
Dimension (L*W*D)	426*322*126mm			
Weight (kg)	10.9		11.6	

RESIDENTIAL ENERGY STORAGE

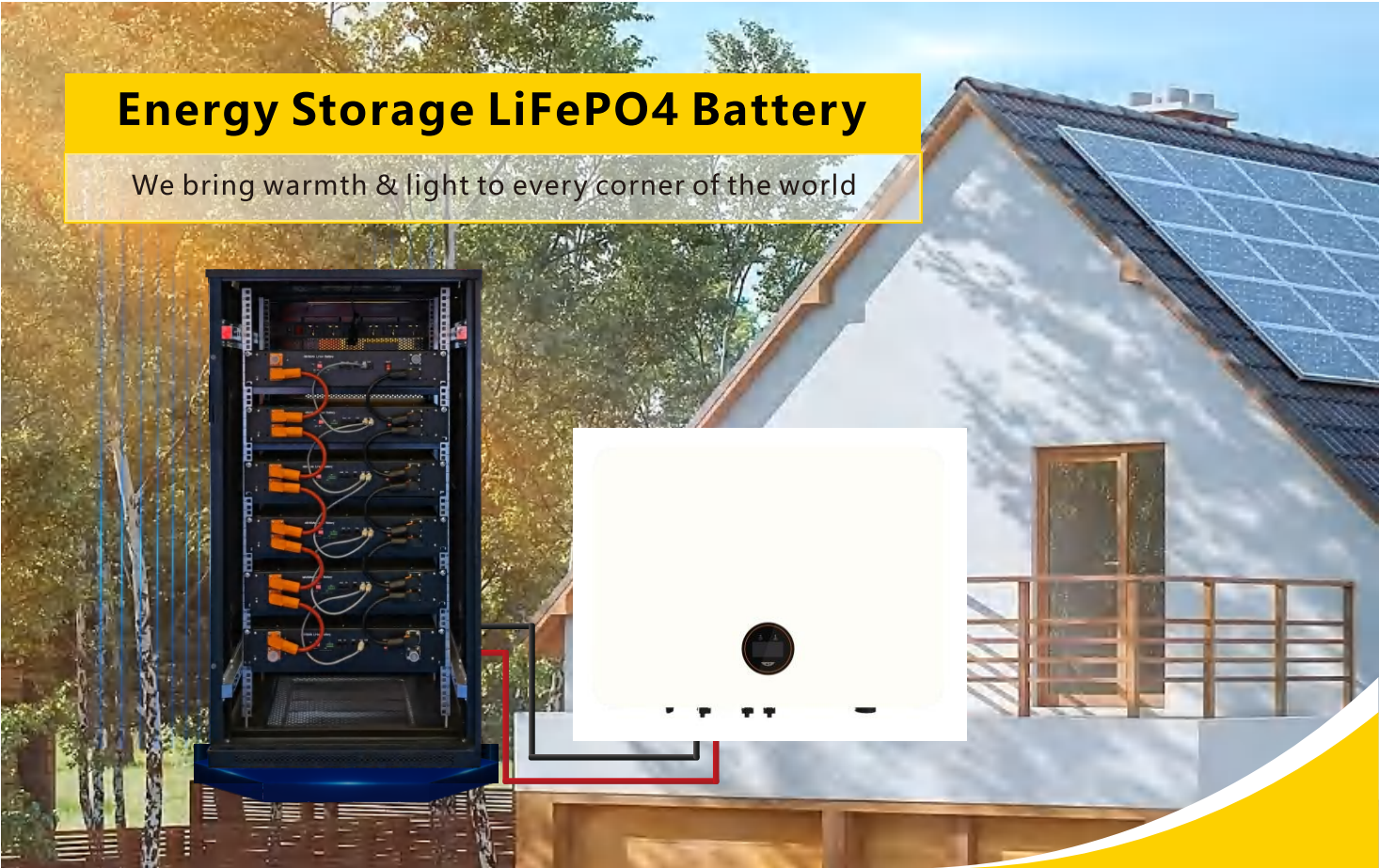
HOUSEHOLD ENERGY STORAGE LITHIUM BATTERY

**5.12KWh Stacked Lithium
Energy Storage Battery**

**Power Wall Lithium
Energy Storage Battery**

Our lithium energy storage batteries use long life LiFeP04 cells, and high performance BMS to protect and manage the battery system. It has wider usage and longer life than traditional batteries.





Rack Model Lithium Energy Storage Battery

Products Specification



Model	48V50AH	48V100AH	48V200AH
Capacity	2.4KWH	4.8KWH	9.6KWH
Normal Discharging Current	25A	50A	100A
Max Discharging Current	50A	100A	200A
Voltage		40.5-54VDC	
Standard Voltage		48VDC	
Max Charging Current	50A	100A	200A
Max Charging Voltage		54V	
Suggested DOD Model		90%	
Size(mm)	484*410*88.5	484*410*178	484*590*178
Weight	24.5kg	39.5kg	55kg
Humidity		20-60%	
Installation		Rack mounted or cabinet	
IP Rating		IP20	
Max Number Of Parrallel		16	
Warranty		5 Years	
Communication		CAN/RS485/RS232(4G WiFi/bluetooth/4G optional)	
Monitor		WIFI	
Battery Protection		Over Current/Over Voltage/Short Circuit/Low Voltage/High Temperature	



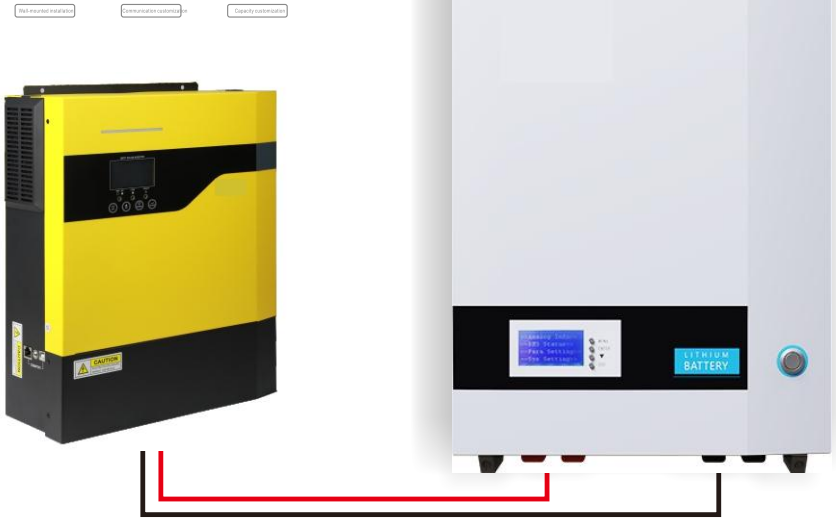
POWER WALL LITHIUM ENERGY STORAGE BATTERY



Products Specification

Model	100AH 48V	200AH 48V
Capacity	4.8KWH	9.6KWH
Normal Discharging Current	50A	100A
Max Discharging Current	100A	200A
Voltage		40.5-54VDC
Standard Voltage		48VDC
Max Charging Current		100A
Max Charging Voltage		54V
Suggested DOD Model		90%
Humidity		20-60%
Installation		Wall mounted installation
Cycle		3000-6000次 3000-6000times
IP Rating		IP20
Max Number Of Parrallel		16
Warranty		5 Years
Communication		CAN/RS485/RS232(4G WiFi/bluetooth/4G optional)
Size(mm)	558*400*228mm	591*485*184mm
Weight	51.5Kg	84Kg

Energy Storage LiFePO4 Battery



Roller 2-in-1 inverter + battery

3.3~5kW inverter with
5.12kWh LiFePO4 battery



Portable roller wheel design



Multi output ports



High efficiency,
High performance



Support portable or foldable solar panels



4 smart work modes to save power



WIFI remote monitoring



Inverter & battery 2-in-1

PARAMETETS

Inverter		
Rated output power	3.3kW	5kW
Max. PV input power	4200W	5000W
AC output voltage	Single phase 110v or 220v (operation voltage range +/-10%)	
Wave form	Pure Sine Wave	
PV Voltage (short circuit)	145Vdc (or 500Vdc)	
MPPT Voltage range	60-115Vdc (or 120-450Vdc)	
Grid AC voltage range	110V(90Vac-280Vac)±2%,220V(170Vac-280Vac)±2%	
Grid AC frequency	50Hz/60Hz(auto matching)	
Inverter efficiency	>92%	
Battery	Battery	
Nominal Voltage	51.2V	
Nominal Capacity	100Ah	
Cycle Life	>6000 cycles @ DoD 80%,25℃, 0.5C	
General Info	General Info	
Battery charging modes	PV Panel & AC Grid	
Output ports	AC terminalx1, USB 5V 3.0x4, DC 12Vx4, AC socketx2 (US or E.U option)	
Ambient temperature	Charging: 0℃~45℃; Discharging: -20℃~60℃; Storage: 0℃~40℃; Humidity: ≤85% RH	
Protection levels	IP21	
Size(L*W*H mm)	845*530*200	
Weight(kg)	60	
Certification for cells	CE, UL, IEC 62109-1 & -2, IEC 62477, EN61000,UN38.3	
Certification for battery	CE, UN38.3, MSDS, Transportation Safety Certificate.	
Certification for inverter	CE, UL(CETL,CSA), IEC62109, RoHS,EN61000 EMC	



5.12KWh Stacked Lithium

Energy Storage Battery



BATTERY PRODUCTS SPECIFICATION

Model	5.12KWH	10.24KWH	15.36KWH	20.48KWH	25.6KWH
Single module capacity			5.12KWH		
Module number	1 PCS	2 PCS	3 PCS	4 PCS	5 PCS
Total capacity	5.12KWH	10.24KWH	15.36KWH	20.48KWH	25.6KWH
Standard voltage	51.2V				
Working voltage	43.2V-57.6V				
Standard discharge current	100A	200A	300A	400A	500A
Standard charge current	50A	100A	150A	200A	250A
Suggested DOD	80%				
Humidity	20%-60%				
Installation	Stacked				
IP rating	IP20				
Communication	CAN/RS485/RS232(4G WiFi/bluetooth/4G optional)				
Product size/unit	620*550*480mm	620*550*760mm	620*550*1040mm	620*550*1320mm	620*550*1600mm
N.W./unit	50kg	80kg	120kg	150kg	190kg

INVERTER PRODUCTS SPECIFICATION

Rated Power	5000W
INPUT	
Voltage	230VAC
Selectable Voltage Range	170-280VAC(For personal computers);90-280VAC(For home appliances)
Frequency Range	50Hz/60Hz(Auto sensing)
OUTPUT	
AC Voltage Regulation(Battery.Mode)	230VAC±5%
Surge Power	11000VA
Efficiency(Peak)	Up to 93.5%
Transfer Time	10ms (For personal computers);20ms(For home appliances)
Waveform	Pure sine wave
BATTERY	
Battery Voltage	48VDC
Floating Charge Voltage	54VDC
Overcharge Protection	63VDC
Solar Charger & AC charger	
Maximum PV Array Open Circuit Voltage	500VDC
Maximum PV Array Power	5500W
MPPT Range @ Operating Voltage	120-450VDC
Maximum Solar Charger Current	80A
Maximum AC Charger Current	60A
Maximum Charger Current	80A
ENVIRONMENT	
Humidity	5% to 95% Relative Humidity(Non-condensing)
Operating Temperature	-10°C to 50°C
Storage Temperature	-15°C to 60°C

➡ Lithium Energy Storage Battery



Lithium energy storage battery use long working life LiFePO4 battery, and high performance BMS to protect and manage the battery system, it has wider usage and longer life than traditional battery.

PRODUCTS SPECIFICATION

Model	10012	20012	10024	20024	10048	20048
Capacity	12V100AH	12V200AH	24V100AH	24V200AH	48V100AH	48V200AH
Continuous Discharge Current	50A	100A	50A	100A	50A	100A
Peak Protection Current	100A	200A	100A	200A	100A	200A
Working Voltage	10-14.6V	10-14.6V	20-29.2V	10-14.6V	37.5-54.75V	37.5-54.75V
Standard Voltage	12.8V	12.8V	25.6V	12.8V	48V	48V
Continuous Work Current	50A	100A	50A	100A	50A	50A
Max Charging Voltage	14.6V	14.6V	29.2V	14.6V	54.75V	54.75V
Suggested DOD Model	80%	80%	80%	80%	80%	80%
Size(mm)	345*310*275	475*350*275	475*350*275	525*490*275	525*490*275	560*520*320
Weight	12.5kg	22kg	22kg	40kg	40kg	75kg
Humidity	≤85%					
Cooling Type	Natural Cooling					
Warranty	5 years					

➡ Lithium Energy Storage Battery



Lithium energy storage battery use long working life LiFePO4 battery, and high performance BMS to protect and manage the battery system, it has wider usage and longer life than traditional battery.

PRODUCTS SPECIFICATION

Model	1212	3012	5012	10012	13012	20012	10024
Capacity	12V12AH	12V30AH	12V50AH	12V100AH	12V130AH	12V200AH	24V100AH
Continuous Dscharge Current	8A	15A	25A	50A	65A	100A	50A
Peak Protection Current	16A	30A	50A	100A	130A	200A	100A
Working Voltage	10-14.6V	10-14.6V	10-14.6V	10-14.6V	10-14.6V	10-14.6V	20-29.2V
Standard Voltage	12.8V	12.8V	12.8V	12.8V	12.8V	12.8V	25.6V
Continuous Work Current	8A	15A	25A	50A	65A	100A	50A
Max Charging Voltage	14.6V	14.6V	14.6V	14.6V	14.6V	14.6V	29.2V
Suggested DOD Model	80%	80%	80%	80%	80%	80%	80%
Size(mm)	151*99*94	195*133*171	229*138*208	256*165*210	330*172*215	345*190*245	345*190*245
Weight	1.5kg	3.2kg	4.5kg	10kg	13kg	22kg	22kg
Humidity	≤85%						
Cooling Type	Natural Cooling						
IP Rating	IP67						
Warranty	2 years						
Battery Protection	Over Current/Over Voltage/Short Circuit/Low Voltage/High Temperature						

300T

300W / 230.4Wh



Accessories



Product Specification

Input	Solar charging
	71.25W adapter charging
	Car cigarette lighter charging
Output	Rated power 300W
	Peak power 600W
	Socket (AC110V±10% or AC220V±10%)
	1*Car cigarette lighter (12V/10A)
	2*5521 (12V/4A)
	2*USB-A (18W MAX)
	1*USB-C (PD20W)

Battery	LiFePO4
Capacity	230.4Wh
N.W	3.5KG
Size	188*165*200mm or 188*165*170mm

320A

320W / 298Wh



Accessories



Product Specification

Input	Solar charging
	71.25W adapter charging
	Car cigarette lighter charging
Output	Rated power 320W
	Peak power 640W
	Socket (AC110V±10% or AC220V±10%)
	1*Car cigarette lighter (12V/10A)
	2*5521 (12V/4A)
	2*USB-A (18W MAX)
	1*USB-C (PD60W)

Battery	LiFePO4
Capacity	298Wh
N.W	4.1KG
Size	188*165*200mm or 188*165*170mm



500X

500W / 403.2Wh



Product Specification

Input	Solar charging 90W adapter charging Car cigarette lighter charging
Output	Rated power 500W Peak power 1000W Socket (AC110V±10% or AC220V±10%) 1*Car cigarette lighter (12V/10A) 2*5521 (12V/4A) 2*USB-A (24W MAX) 2*USB-C (PD60W)
Battery Capacity	LiFePO4 403.2Wh
N.W Size	5.6KG 267*170*220mm

Accessories



700

700W / 537.6Wh



Accessories



Adapter



MC4 Line



Car charging cable

Product Specification

Input	Solar charging
	90W adapter charging
	Car cigarette lighter charging
Output	Rated power 700W
	Peak power 1400W
	Socket (AC110V±10% or AC220V±10%)
	1*Car cigarette lighter (12V/10A)
	2*5521 (12V/10A)
	2*USB-A (24W MAX)
	2*USB-C (PD60W)

Battery	LiFePO4
Capacity	537.6Wh
N.W	6.57KG
Size	267*220*170mm

1200

1200W / 1120Wh



Accessories



Adapter



MC4 Line



Car charging cable

Product Specification

Input	Solar charging
	250W adapter charging
	Car cigarette lighter charging
Output	Rated power 1200W
	Peak power 2400W
	Socket (AC110V±10% or AC220V±10%)
	1*Car cigarette lighter (12V/10A)
	2*5521 (12V/10A)
	2*USB-A (24W MAX)
	1*USB-C (PD60W)

Battery	LiFePO4
Capacity	1120Wh
N.W	11KG
Size	313*230*206mm



1000A

1000W / 1280Wh



Accessories



Product Specification

Input	Solar charging 250W adapter charging Car cigarette lighter charging
Output	Rated power 1000W Peak power 2000W Socket (AC110V±10% or AC220V±10%) 1*Car cigarette lighter (12V/10A) 2*5521 (12V/4A) 3*USB-A (18W MAX) 1*USB-C (PD60W)
Battery	LiFePO4
Capacity	1280Wh
N.W	14KG
Size	290*258*210mm



1000B

1000W / 806Wh



Accessories



Adapter

MC4 Line

Car charging cable

Product Specification

Input	Solar charging 120W adapter charging Car cigarette lighter charging
Output	Rated power 1000W Peak power 2000W Socket (AC110V±10% or AC220V±10%) 1*Car cigarette lighter (12V/10A) 2*5521 (12V/4A) 3*USB-A (18W MAX) 1*USB-C (PD60W)
Battery Capacity	LiFePO4 806Wh
N.W Size	11KG 290*258*210mm



2000

2000W / 2080Wh



Accessories



Power cord



MC4 Line

Product Specification

Input	Solar charging
	Bidirectional inverter
Output	1300w built-in adapter charging
	Rated power 2000W
Function	Peak power 4000W
	Socket (AC110V±10% or AC220V±10%)
Battery	2*Car cigarette lighter (12V±5%/10A)
	2*5521 (12V±5%/4A)
Capacity	4*USB-A (24W MAX)
	2*USB-C (PD100W)
N.W	UPS
	Battery LiFePO4
Size	Capacity 2080Wh
	N.W 23KG
Size	448*248*318mm



3000

3000W / 3024Wh



Accessories



Power cord



MC4 Line

Product Specification

Input	Solar charging
	Bidirectional inverter
	1300w built-in adapter charging
Output	Rated power 3000W
	Peak power 6000W
	Socket (AC110V±10% or AC220V±10%)
	2*Car cigarette lighter (12V±5%/10A)
	2*5521 (12V±5%/4A)
	4*USB-A (24W MAX)
Function	2*USB-C (PD100W)
	UPS
Battery	LiFePO4
	Capacity 3024Wh
N.W	40.5KG
	Size 448*248*464mm



150



Product Specification

Input	12VDC/24VDC
Output	AC110V±10% or AC220V±10% 4*USB (2.1A+1A) (2.1A+1A) Rated power 150W Peak power 300W
Waveform	Modified Sine Wave
N.W	0.27KG
Size	111*76.6mm

150



Product Specification

Input	12VDC/24VDC
Output	AC110V±10% or AC220V±10% 2*USB (2.1A+1A) Rated power 150W Peak power 300W
Waveform	Modified Sine Wave
N.W	0.27KG
Size	87*65*38mm

Modifide sine wave inverter



300



Product Specification

Input	12VDC/24VDC
Output	AC110V±10% or AC220V±10% 2*USB (2.1A+2.1A) Rated power 300W Peak power 600W
Waveform	Modified Sine Wave
N.W	0.62KG
Size	120*98*53mm

300



Product Specification

Input	12VDC/24VDC
Output	AC110V±10% or AC220V±10% 2*USB (2.1A+2.1A) Rated power 300W Peak power 600W
Waveform	Modified Sine Wave
N.W	0.62KG
Size	120*98*53mm

500



Product Specification

Input	12VDC/24VDC
Output	AC110V±10% or AC220V±10% 2*USB (2.1A+2.1A) Rated power 500W Peak power 1000W
Waveform	Modified Sine Wave
N.W	0.86KG
Size	160*98*53mm

1000



Product Specification

Input	12VDC/24VDC
Output	AC110V±10% or AC220V±10% Rated power 1000W Peak power 2000W
Waveform	Modified Sine Wave
N.W	1.76KG
Size	210*140*70mm

800



Product Specification

Input	12VDC/24VDC
Output	AC110V±10% or AC220V±10% 2*USB (2.1A+2.1A) Rated power 800W Peak power 1600W
Waveform	Modified Sine Wave
N.W	1KG
Size	190*98*53mm

1500



Product Specification

Input	12VDC/24VDC
Output	AC110V±10% or AC220V±10% Rated power 1500W Peak power 3000W
Waveform	Modified Sine Wave
N.W	2.4KG
Size	260*140*70mm

Pure sine wave inverter

600X



Product Specification

Input 12VDC/24VDC/48VDC
Output AC110V±10% or AC220V±10%
Rated power 600W
Peak power 1200W

Waveform Pure sine wave

N.W 1.67KG
Size 265*150*90mm

1000X



Product Specification

Input 12VDC/24VDC/48VDC
Output AC110V±10% or AC220V±10%
Rated power 1000W
Peak power 2000W

Waveform Pure sine wave

N.W 2.07KG
Size 310*150*90mm

2000X



Product Specification

Input	12VDC/24VDC/48VDC
Output	AC110V±10% or AC220V±10%
	Rated power 2000W
	Peak power 4000W
Waveform	Pure sine wave
N.W	3.92KG
Size	445*175*115mm

4000X



Product Specification

Input	12VDC/24VDC/48VDC
Output	AC110V±10% or AC220V±10%
	Rated power 4000W
	Peak power 8000W
Waveform	Pure sine wave
N.W	6.08KG
Size	550*175*138mm

3000X



Product Specification

Input	12VDC/24VDC/48VDC
Output	AC110V±10% or AC220V±10%
	Rated power 3000W
	Peak power 6000W
Waveform	Pure sine wave
N.W	5.54KG
Size	480*175*138mm



2200/3200

High Frequency Solar Inverter



Model	2200H	3200H
Rated power	2200VA/1800W	3200VA/3000W
Input		
Voltage	230VAC	
Optional voltage range	170-280VAC (For personal computers) / 90-280VAC (For household appliances)	
Frequency range	50Hz/60Hz (Automatic induction)	
Output		
Surge power	4400VA	6400VA
Waveform	Pure sine wave	
Battery voltage	12VDC	24VDC
Floating charging voltage	13.5VDC	27VDC
Overload charge protection	15.5VDC	31VDC
Maximum charging current	60A	
MAX.PV array power supply	2000W	3000W
MPPT range at operating voltage	90-450VDC	
Maximum efficiency	98%	
Size	348*282*105mm	
N.W	5KG	5.5KG

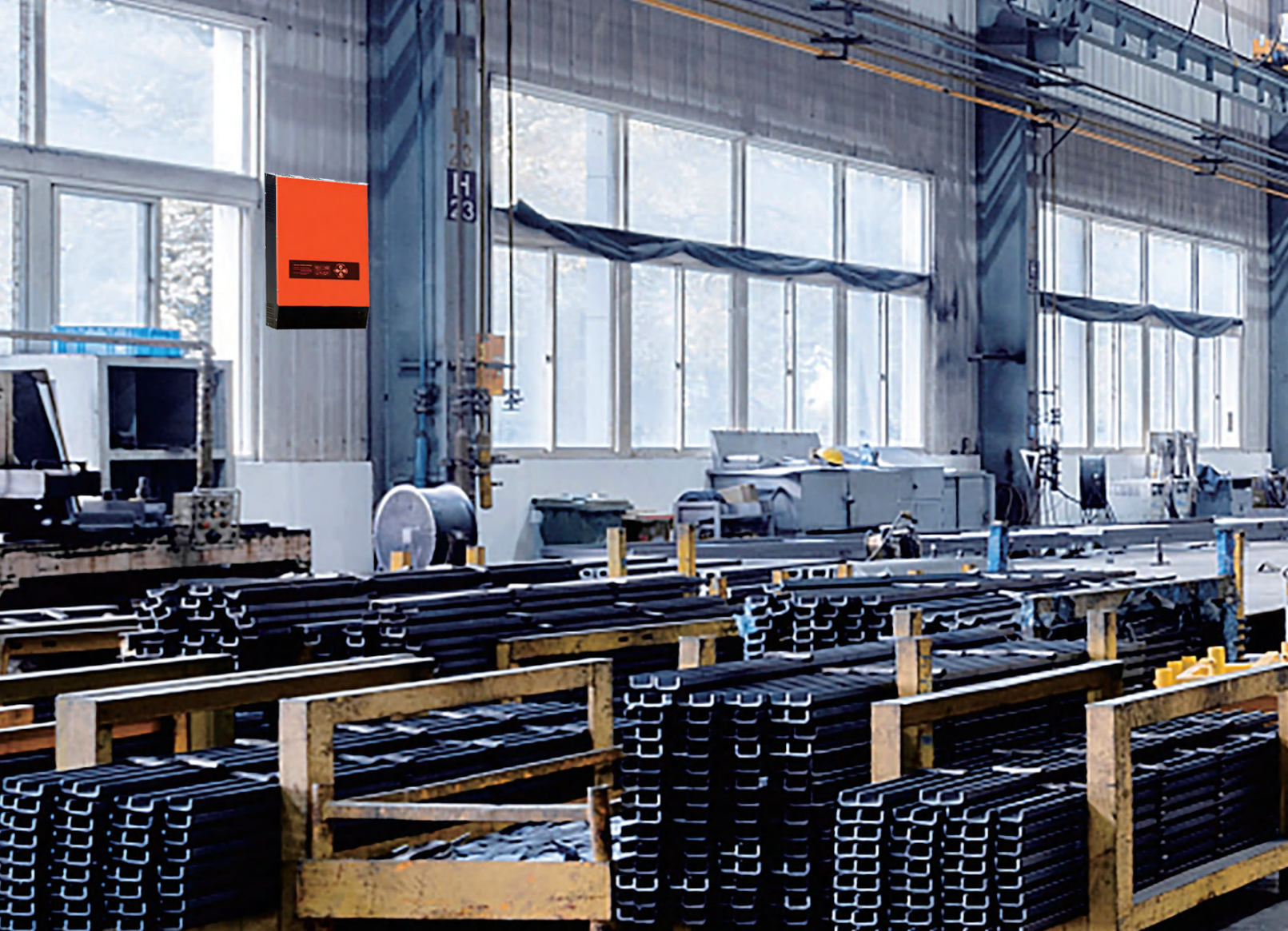


3500/5500/5500

High Frequency Solar Inverter



Model	3500	5500	5500
Rated power	3500VA/3500W	5500VA/5500W	5500VA/5500W
Input			
Voltage	230VAC		
Optional voltage range	170-280VAC (For personal computers) / 90-280VAC (For household appliances)		
Frequency range	50Hz/60Hz (Automatic induction)		
Output			
Surge power	7000VA	11000VA	11000VA
Waveform	Pure sine wave		
Battery voltage	24VDC	48VDC	48VDC
Floating charging voltage	27VDC	54VDC	54VDC
Overload charge protection	33VDC	63VDC	63VDC
Maximum charging current	110A		
MAX.PV array power supply	5000W	6000W	6000W
MPPT range at operating voltage	120-500VDC		
Maximum efficiency	98%		
Size	472*297*129mm		
N.W	13KG	14KG	14KG



LS series

Power frequency solar inverter



Model	10212/24/48 (102)	15212/24/48 (152)	20212/24/48 (202)	30224/48 (302)
Rated power	1000W	1500W	2000W	3000W
Peak power	3000VA	4500VA	6000VA	9000VA
Starter motor	1HP	1.5HP	2HP	3HP
Battery voltage	12/24/48VDC			24/48VDC
Size	500*300*140mm			
N.W	12KG	13.5KG	18KG	20KG

Model	40224/48 (402)	50248 (502)	60248 (602)	
Rated power	4000W	5000W	6000W	
Peak power	12000VA	15000VA	18000VA	
Starter motor	3HP	4HP	4HP	
Battery voltage	24/48VDC	48VDC		
Size	530*335*150mm			
N.W	22KG	24KG	26KG	



DP series

Power frequency solar inverter



Model	10212/24/48 (102)	15212/24/48 (152)	20212/24/48 (202)	30224/48 (302)
Rated power	1000W	1500W	2000W	3000W
Peak power	3000VA	4500VA	6000VA	9000VA
Starter motor	1HP	1.5HP	2HP	3HP
Battery voltage	12/24/48VDC			24/48VDC
Size	555*297*184mm			
N.W	12KG	13KG	15.5KG	18KG

Model	40224/48 (402)	50248 (502)	60248 (602)	70248 (702)
Rated power	4000W	5000W	6000W	7000W
Peak power	12000VA	15000VA	18000VA	21000VA
Starter motor	3HP	4HP	4HP	5HP
Battery voltage	24/48VDC	48VDC		
Size	615*315*209mm			
N.W	23KG	24.5KG	26KG	27.5KG



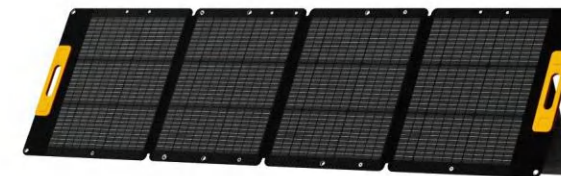
60



Product Specification

Specification	Two fold, single crystal silicon
Output	18V
IP	IP67 Is formed in one
N.W	1.9KG
Folding size	500*455*40mm
Expansion size	915*455*5mm

120B



Product Specification

Specification	Four fold, single crystal silicon
Output	18V
IP	IP67 Is formed in one
N.W	3.9KG
Folding size	450*475*50mm
Expansion size	1650*475*5mm

210



Product Specification

Specification	Four fold, single crystal silicon
Output	18V
IP	IP67 Is formed in one
N.W	6.9KG
Folding size	570*595*50mm
Expansion size	2180*595*5mm

400



Product Specification

Specification	Four fold, single crystal silicon
Output	18V
IP	IP67 Is formed in one
N.W	16KG
Folding size	694*977*60mm
Expansion size	2400*977*5mm

POWER USED BY COMMON DEVICES

Energy storage capacity ÷ device power used = service time



UAV
(40W)



Projector
(60W)



Notebook
(58W)



Camera
(7.3W)



Fan
(40W)



Sound
(30W)



Refrigerator
(60W)



Hot kettle
(800W)



Microwave oven
(1300W)



Floodlight
(30W)



Ventilator
(60W)



Electric drill
(1080W)



Coffee machine
(1000W)



Electric cooking pot
(1050W)



Rice cooker
(1000W)



Mobile phone
(11.8W)







