SOLAR ENERGY SOLUTIONS

Solar Panels | Solar Inverters | Solar Batteries | Complete Systems

Powered by Innovation.
Driven by Sustainability.
Harnessing the Sun,
Powering the Future.

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ON GRID SOLAR SYSTEM

On-grid or grid-tie solar systems are by far the most common and widely used by homes and businesses.These systems do not need batteries and use common solar inverters and are connected to the public electricity grid. Any excess solar power that you generate is exported to the electricity grid and you usually get paid a feed-in-tariff or credits for the energy you export.

SYSTEM COMPONENTS

Half Cell Solar Panel

On Grid Solar Inverter

PV Cable

MC4 Connector

Configuration of PV System

- Solar Panel
- Roof/Ground Mounting System
- DC/AC Combiner Box
- On Grid Inverter
- DC/AC Cables
- PV Installation Tools

Main Advantages

- Reducing electricity bills
- Easy to installation and maintenance
- Effective utilization of generated power

PROJECT CASES


20KW in Vietnam


500KW in Europe


10KW in Romania


50KW in Lebanon


100KW in Romania

China Link-up

OFF GRID SOLAR SYSTEM

Off-grid solar systems operate from the stored energy in a battery bank. Solar panels are used to keep the battery bank charged. Your off-grid solar system has to be sized properly to meet your daily power needs and replace the stored energy pulled from the battery bank.

The high cost of batteries and inverters means off-grid systems are much more expensive than on-grid systems and so are usually only needed in more remote areas that are far from the electricity grid. However battery costs are reducing rapidly, so there is now a growing market for off-grid solar battery systems in both cities and towns.

01 Solar Panel
Mono/poly/half cell/flexible/full black solar panel

02 Solar Inverter
Off grid solar inverter

03 Battery Bank
Lithium Battery/GEL Battery

04 Solar Controller
MPPT/PWM Controller

05 PV Cable
Has excellent acid resistance and heat resistance

06 MC4 Connector
Contact material is copperand tin plated

Configuration of PV System

- Solar Panel
- Roof/Ground Mounting System
- DC/AC Combiner Box
- Off Grid Inverter Built in Controller
- Battery Bank, Cable & Rack
- DC/AC Cables
- PV Installation Tools

Main Advantages

- Reducing electricity bills
- Easy to installation and maintenance
- Effective utilization of generated power

SOLAR ACCESSORIES

Shine Wifi

> USB port, ShineWifi-X, supports all -X se inverters,includingthe MAX series
> Tricolor indicating light (RGB)
> Reset button underneath
> QR code
>Bar codes at the back

Mounting System

> Residential Roof(Pitched Roof)
> Commercial Roof(Flat roof&workshop roof)
> Ground Solar Mounting system
> Vertical wall solar mounting system
> All aluminum structure solar mounting system
> Car parking solar mounting system

MC4 Connector

> PV Cable 4mm2 6mm2
> AC Cable
> DC Switches
> AC Breaker
> AC/DC Combine box

PV Cable

> PV Cable 4mm²/6mm²
> AC Cable
> DC Switches
> AC Breaker
> AC/DC Combine box

PV Tools

> Wire Cable Cutter & Stripper
> MC3 MC4 Crimper
> MC4 Connectors Assembly
> Disassembly Tool

DC/AC Combiner Box

> IP Rating: IP65
> Rated Voltage: 500vdc/1000vdc/1500vdc
> Input cable terminal: 4-6mm²

DC/AC Breaker

> Provide Overcurrent Protection
> Direct Current Control Circuit Applicatic
> Automatic Device Against Overload

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HYBRID SOLAR SYSTEM

Sunway Hybrid Solar system combine the innovation of both on-grid(grid-tied) and off-grid technologies and are offered as on grid(grid-tie) solar with battery bank storage. Sunway Hybrid Solar Energy Kits generate electricity, not only can be used, also can be stored for night use .What is more, extra energy can be sold back to utility company

Configuration of PV System

•Solar Panel
•Roof/Ground Mounting System
•DC/AC Combiner Box
•Hybrid Inverter/Charge Controller
•Battery Bank, Cable & Rack
•DC/AC Cables
•PV Installation Tools

Main Advantages

•Operate with on-grid and off grid mode at the same time
•Sell energy back to the utility company and store excess energy to night use
•Use on grid energy or solar energy to charge the battery bank

SEVERAL DIFFERENT HYBRID SYSTEMS

PROJECT CASES


10KW in Netherlands


25KW in Vietnam

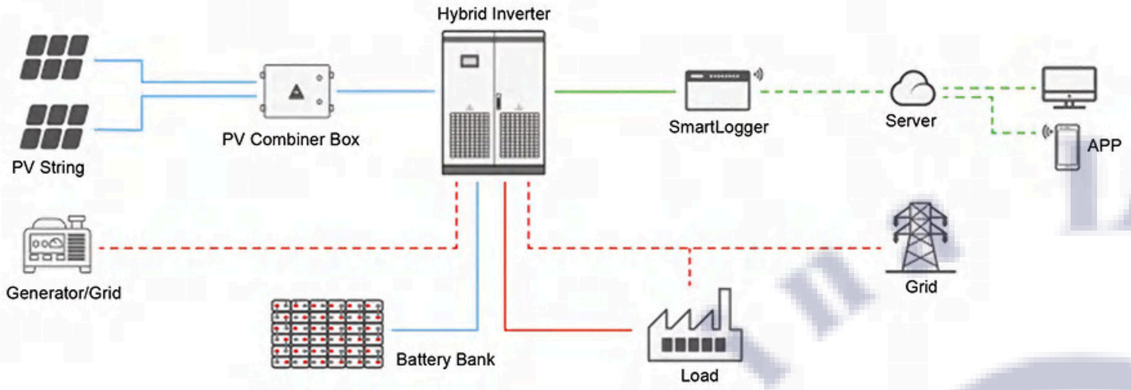
5KW in Germany

10KW in Spain


150KW in Afghanistan

ENERGY STORAGE SYSTEM(50-300KWH)

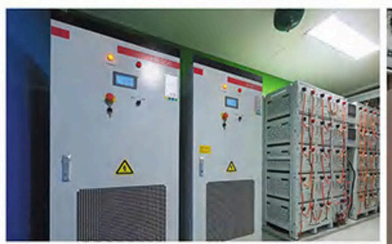
Hybrid solar energy storage system, the use of solar panels, power generation, storing electrical energy into the battery, through the inverter in the storage battery DC into household alternating current (AC), can according to the power demand of the average family configuration design, suitable for remote mountainous area electricity is not convenient, simple operation, plug and play, low failure rate, energy conservation, environmental protection, no pollution, no noise.



30-100KW

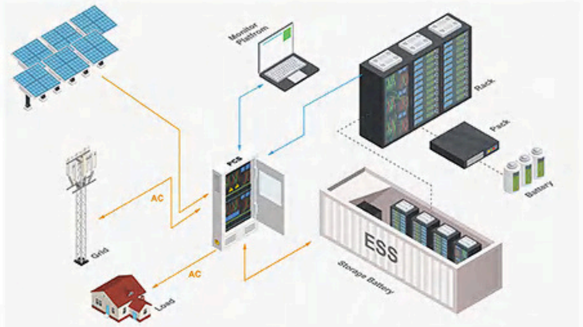
30-150KW

- Pure sine wave AC output
- WIFI/GPRS remote monitoring(optional)
- Compatible to mains voltage or generator power
- Parallel operation available
- Configurable AC solar input priority via LCD setting



CONTAINER ENERGY STORAGE SYSTEM (300-2000KWH)

Sunway battery energy storage system (BESS) containers are based on a modular design. They can be configured to match the required power and capacity requirements of client' s application.Our containerised energy storage system (BESS) is the perfect solution for large-scale energy storage projects. The energy storage containers can be used in the integration of various storage technologies and for different purposes.



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PERC TECH SOLAR PANEL

The internal structure design of half - piece components includes three ways: series structure, series - parallel structure and parallel - series structure.

01 High customer value

- Lower LCOE (Levelized Cost Of Energy), reduced BOS (Balance of System) cost, shorter payback time
- Lowest guaranteed first year and annual degradation

02 High power

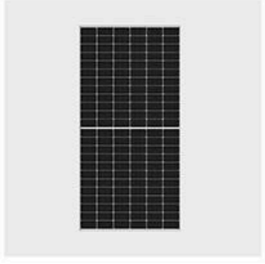
- High module efficiency with high density interconnect technology

03 High reliability

- Minimized micro-cracks with innovative non-destructive cutting technology

04 High energy yield

- Excellent IAM (Incident Angle Modifier) and low irradiation performance, validated by 3rd party certifications



GLASS

- Anti-reflective glass
- High-transmittance and low reflection
- Increase model efficiency
- High mechanical strength

CELL

- High PID resistant
- Low breakage rate
- Uniform color
- High Efficiency PV Cells

FRAME

- Optional silvery or black frame
- Tensile Strength Frame
- Boost bearing capability and prolong service life

JUNCTION BOX

- Waterproofness Junction Box
- IP67 protection level
- Quality diode ensures module running safety
- Heat dissipation

HOT SELLING SOLAR PANEL

425 W

108CELLS

Size:
1722*1134*30/35mm
Weight:
22kg

420 W

108CELLS

Size:
1722*1134*30mm
Weight:
21.8kg

460 W

120CELLS

Size:
1909*1134*30mm
Weight:
24.3kg

500 W

132CELLS

Size:
2094*1134*35mm
Weight:
26kg

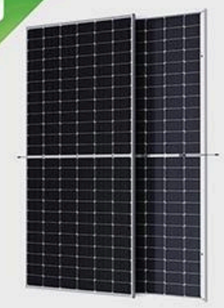
550 W

HOT SALE!

144CELLS

Size:
2279*1134*35mm
Weight:
29kg

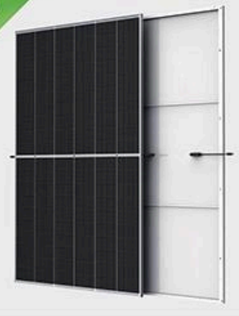
560 W



144CELLS

Size:
2279*1134*35mm
Weight:
32kg

600 W



120CELLS

Size:
2172*1303*35mm
Weight:
31.5kg

670 W

132CELLS

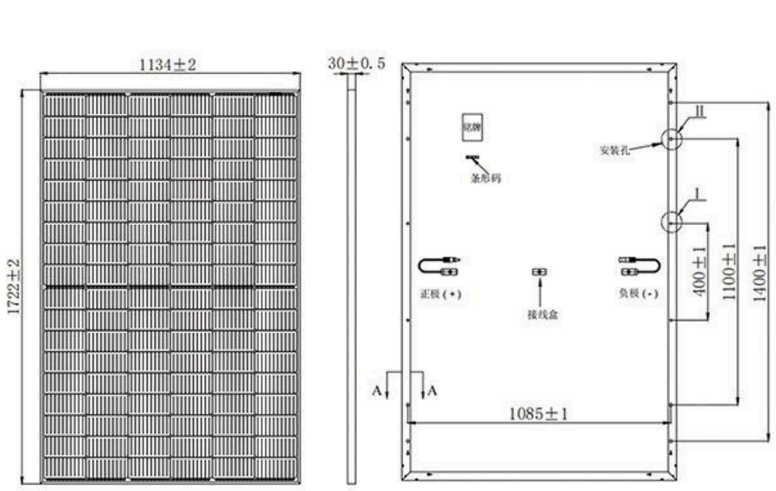
Size:
2384*1303*35mm
Weight:
34.5kg

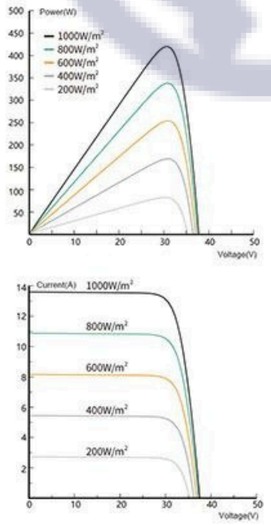
SW425M-108

Cell	Mono 182*91mm
Weight	22kg
Size	1722*1134*30mm
No.of Cells	108(6*18)
Junction Box	IP68
Maximum System Voltage	DC1000V/1500V
Maximum Series Fuse	25A
Moduels Per Pallet	36Pcs
Moduels Per 40HQ	936Pcs

ELECTRICAL PARAMETERS

Module	SW405M-108 ~ SW425M-108				
Encapsulation	Class/Eva/Cell/Eva/Backsheet				
Maximum Power Pmax (W)	405	410	415	420	425
Maximum Power Voltage (Vmp/V)	31.15	31.30	31.45	31.60	31.90
Maximum Power Current (Imp/A)	13.01	13.10	13.20	13.30	13.33
Open Circuit Voltage (Voc/V)	37.11	37.26	37.41	37.56	37.96
Short Circuit Current (Isc/A)	13.70	13.79	13.89	13.98	14.08
Module Efficiency (%)	20.74	21.00	21.25	21.51	22.10



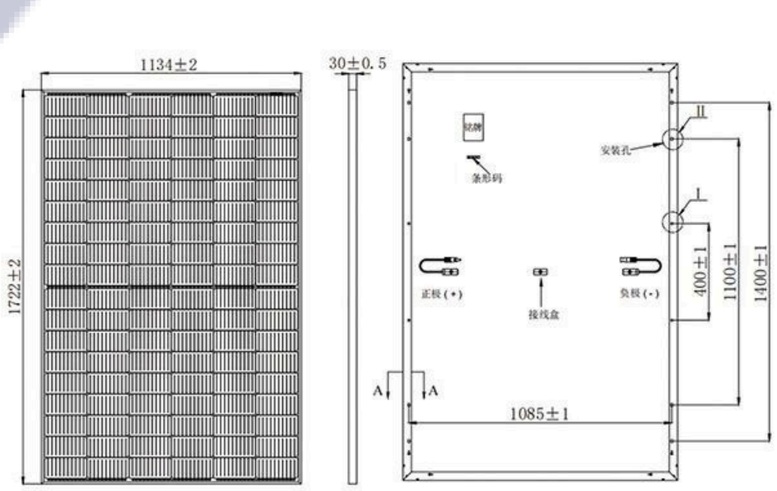


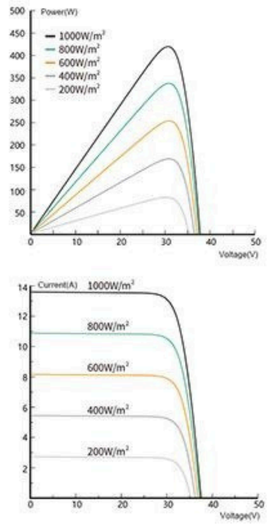
SW420M-108

Cell	Full Black Mono 182*91mm
Weight	21.8kg
Size	1722*1134*30mm
No.of Cells	108(6*18)
Junction Box	IP68
Maximum System Voltage	DC1000V/1500V(IEC)
Maximum Series Fuse	25A
Moduels Per Pallet	36Pcs
Moduels Per 40HQ	936Pcs

ELECTRICAL PARAMETERS

Module	SW400M-108 ~ SW420M-108				
Encapsulation	Class/Eva/Cell/Eva/Backsheet				
Maximum Power Pmax (W)	400	405	410	415	420
Maximum Power Voltage (Vmp/V)	31.00	31.15	31.30	31.45	31.60
Maximum Power Current (Imp/A)	12.91	13.01	13.10	13.20	13.30
Open Circuit Voltage (Voc/V)	36.96	37.11	37.26	37.41	37.56
Short Circuit Current (Isc/A)	13.60	13.70	13.79	13.89	13.98
Module Efficiency (%)	20.48	20.74	21.00	21.25	21.51



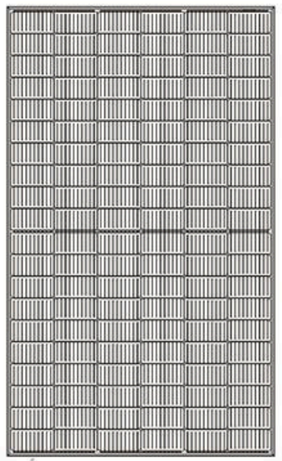


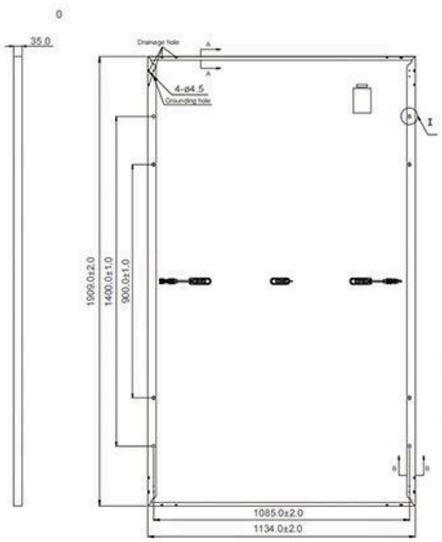
SW460M-120

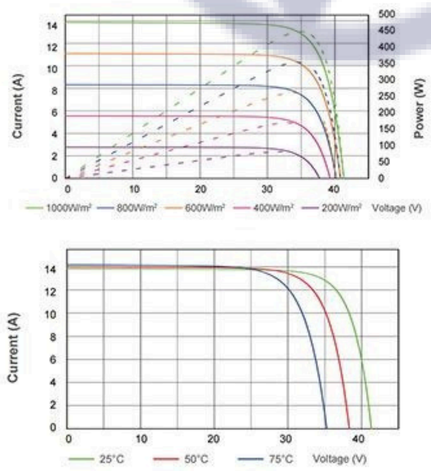
Cell	Mono 182*91mm
Weight	24.3kg
Size	1909*1134*30mm
No.of Cells	144(6*24)
Junction Box	IP68
Maximum System Voltage	DC1000V/1500V(IEC)
Maximum Series Fuse	25A
Moduels Per Pallet	36Pcs
Moduels Per 40HQ	864Pcs

ELECTRICAL PARAMETERS

Module	SW440M-120 ~ SW460M-120				
Encapsulation	Class/Eva/Cell/Eva/Backsheet				
Maximum Power Pmax (W)	440	445	450	455	460
Maximum Power Voltage (Vmp/V)	34.40	34.50	34.70	34.90	35.05
Maximum Power Current (Imp/A)	12.81	12.89	12.97	13.05	13.13
Open Circuit Voltage (Voc/V)	41.00	41.20	41.30	41.50	41.70
Short Circuit Current (Isc/A)	13.69	13.78	13.86	13.94	14.02
Module Efficiency (%)	20.40	20.60	20.90	21.10	21.30





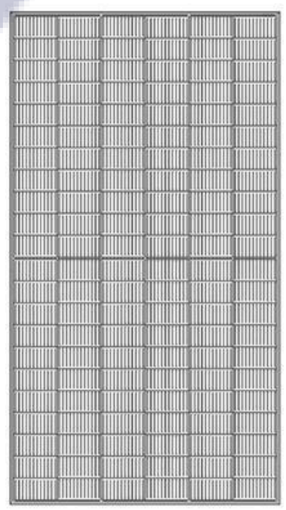


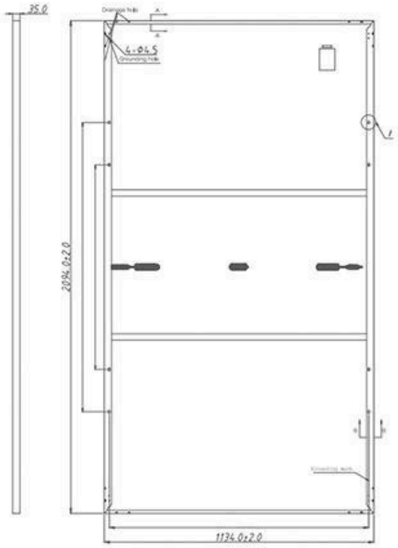
SW500M-132

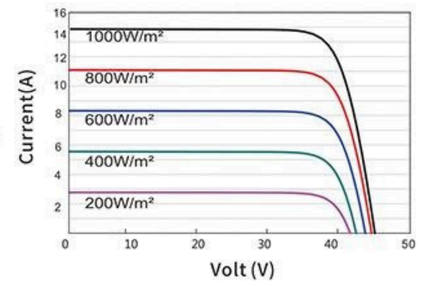
Cell	Mono 182*91mm
Weight	26kg
Size	2094*1134*35mm
No.of Cells	132(6*22)
Junction Box	IP68
Maximum System Voltage	DC 1500V(IEC)
Maximum Series Fuse	25A
Moduels Per Pallet	31Pcs
Moduels Per 40HQ	682Pcs

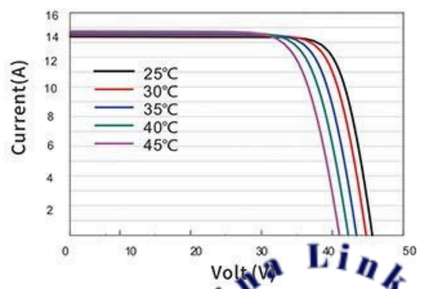
ELECTRICAL PARAMETERS

Module	SW485M-132 ~ SW505M-132				
Encapsulation	Class/Eva/Cell/Eva/Backsheet				
Maximum Power Pmax (W)	485	490	495	500	505
Maximum Power Voltage (Vmp/V)	38.00	38.15	38.30	38.45	38.60
Maximum Power Current (Imp/A)	12.77	12.85	12.93	13.01	13.09
Open Circuit Voltage (Voc/V)	45.20	45.35	45.50	45.65	45.80
Short Circuit Current (Isc/A)	13.68	13.76	13.83	13.91	13.98
Module Efficiency (%)	20.42	20.64	20.85	21.06	21.27







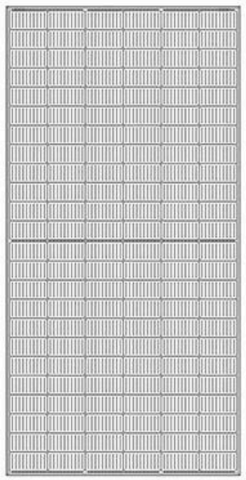


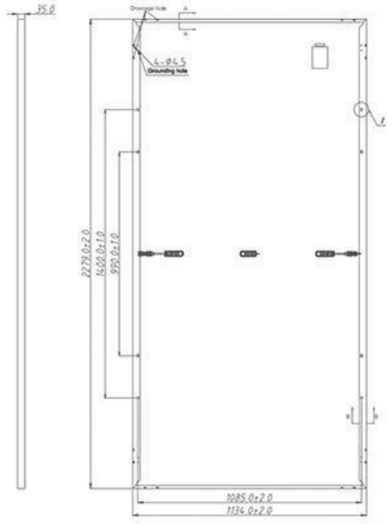
SW550M-144

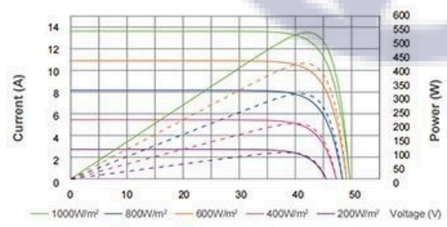
Cell	Mono 182*91mm
Weight	29kg
Size	2279*1134*35mm
No.of Cells	144(6*24)
Junction Box	IP68
Maximum System Voltage	DC1000V/1500V(IEC)
Maximum Series Fuse	25A
Moduels Per Pallet	31Pcs
Moduels Per 40HQ	620Pcs

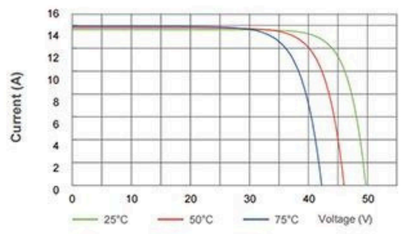
ELECTRICAL PARAMETERS

Module	SW530M-144 ~ SW560M-144				
Encapsulation	Class/Eva/Cell/Eva/Backsheet				
Maximum Power Pmax (W)	530	535	540	550	560
Maximum Power Voltage (Vmp/V)	41.70	41.80	41.90	42.10	42.30
Maximum Power Current (Imp/A)	12.71	12.80	12.89	13.07	13.25
Open Circuit Voltage (Voc/V)	49.50	49.60	49.70	49.90	51.20
Short Circuit Current (Isc/A)	13.44	13.53	13.62	13.80	13.98
Module Efficiency (%)	20.50	20.70	20.90	21.30	21.67







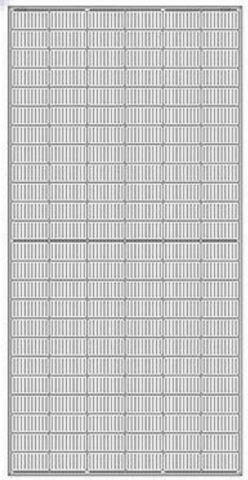


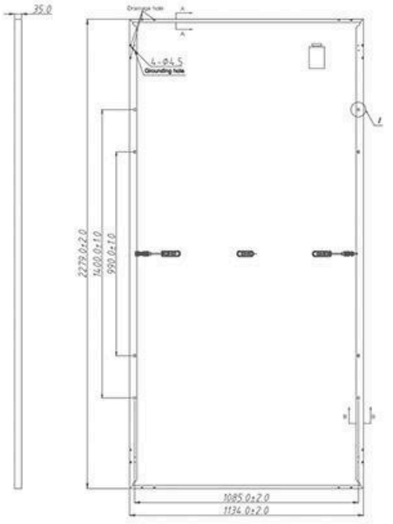
SW560M-144-BIFACIAL

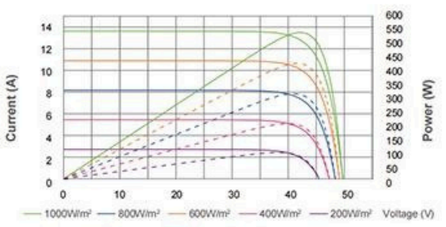
Cell	Mono 182*91mm
Weight	32kg
Size	2279*1134*35mm
No.of Cells	144(6*24)
Junction Box	IP68
Maximum System Voltage	DC 1500V(IEC)
Maximum Series Fuse	25A
Moduels Per Pallet	31Pcs
Moduels Per 40HQ	620Pcs

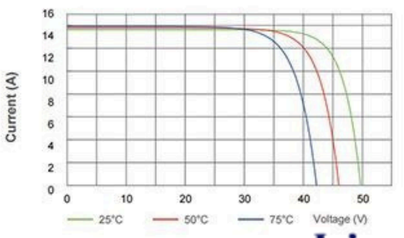
ELECTRICAL PARAMETERS

Module	SW535M-144 ~ SW560M-144				
Encapsulation	Class/Eva/Cell/Eva/Backsheet				
Maximum Power Pmax (W)	535	540	545	550	560
Maximum Power Voltage (Vmp/V)	41.60	41.80	41.90	42.10	42.40
Maximum Power Current (Imp/A)	12.87	12.94	13.02	13.08	13.21
Open Circuit Voltage (Voc/V)	49.40	49.50	49.70	49.90	50.20
Short Circuit Current (Isc/A)	13.83	13.89	13.96	14.01	14.13
Module Efficiency (%)	20.70	20.90	21.10	21.30	21.66







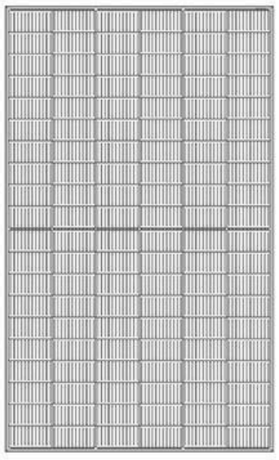


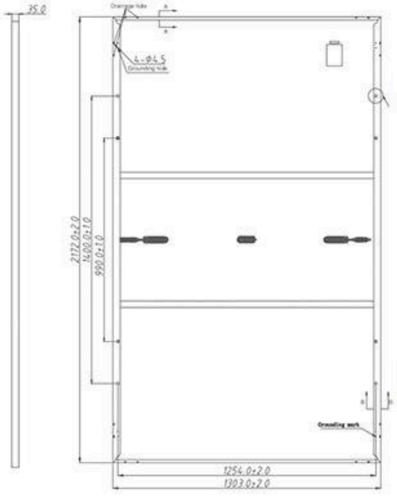
SW600M-120

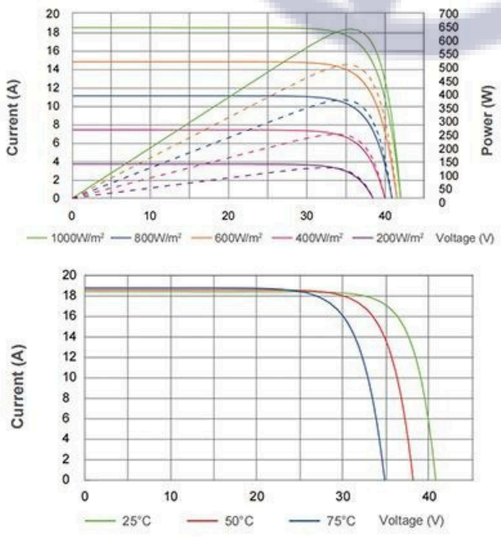
Cell	Mono 210*105mm
Weight	31.5kg
Size	2172*1303*35mm
No.of Cells	120(6*20)
Junction Box	IP68
Maximum System Voltage	DC1000V/1500V(IEC)
Maximum Series Fuse	30A
Moduels Per Pallet	31Pcs
Moduels Per 40HQ	558Pcs

ELECTRICAL PARAMETERS

Module	SW585M-120 ~ SW605M-120				
Encapsulation	Class/Eva/Cell/Eva/Backsheet				
Maximum Power Pmax (W)	585	590	595	600	605
Maximum Power Voltage (Vmp/V)	34.10	34.30	34.50	34.70	34.90
Maximum Power Current (Imp/A)	17.19	17.23	17.28	17.32	17.34
Open Circuit Voltage (Voc/V)	41.30	41.50	41.70	41.90	42.10
Short Circuit Current (Isc/A)	18.18	18.22	18.27	18.31	18.40
Module Efficiency (%)	20.70	20.80	21.00	21.20	21.40





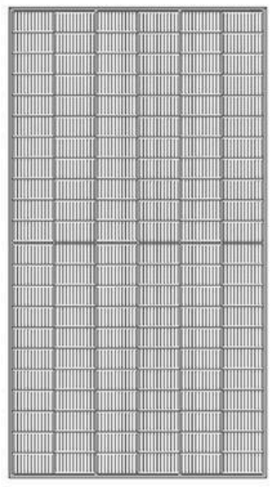


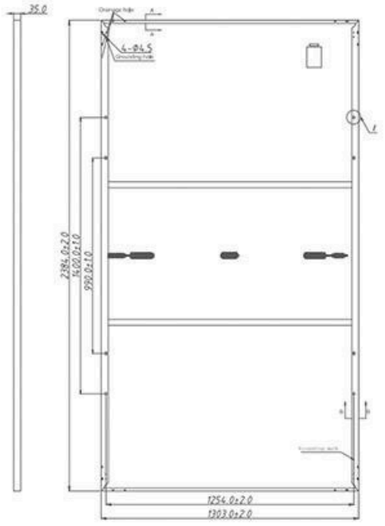
SW670M-132

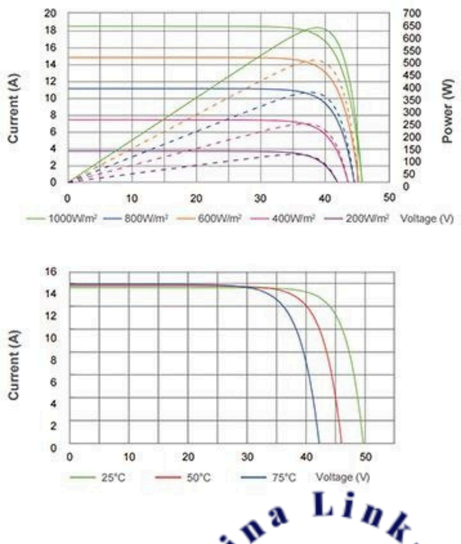
Cell	Mono 210*105mm
Weight	34.5kg
Size	2384*1303*35mm
No.of Cells	132(6*22)
Junction Box	IP68
Maximum System Voltage	DC1000V/1500V(IEC)
Maximum Series Fuse	30A
Moduels Per Pallet	31Pcs
Moduels Per 40HQ	558Pcs

ELECTRICAL PARAMETERS

Module	SW650M-132 ~ SW670M-132				
Encapsulation	Class/Eva/Cell/Eva/Backsheet				
Maximum Power Pmax (W)	650	655	660	665	670
Maximum Power Voltage (Vmp/V)	37.80	38.00	38.20	38.40	38.60
Maximum Power Current (Imp/A)	17.20	17.24	17.28	17.32	17.36
Open Circuit Voltage (Voc/V)	45.20	45.40	45.60	45.80	46.00
Short Circuit Current (Isc/A)	18.26	18.30	18.34	18.38	18.42
Module Efficiency (%)	20.90	21.10	21.30	21.40	21.60







N TYPE TOPCON SOLAR PANEL

The N Type TOPcon cell is designed with conductive TCO surface and insulation-free layer, so there is no build-up surface layer charge.Compared to PERC module, N Type TOPcon features lower power temperature coefficient and higher output power.It is about 4.9% more efficient in power output than PERC module under 60℃ operation temperature The effective power generation time of N TypeTOPcon is 11.07% more than the effective power generation time of conventional cells.

PID

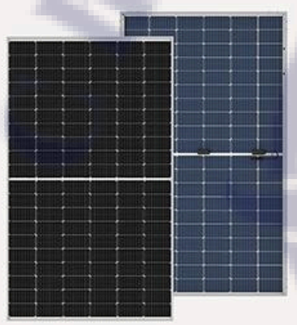
Fire class A
harsh environment adaptability

30 years
power warranty

Elegant appearance
and high performance

415~440W

Cell: 108cells
Weight: 24.5kg
Size:1722*1134*30mm

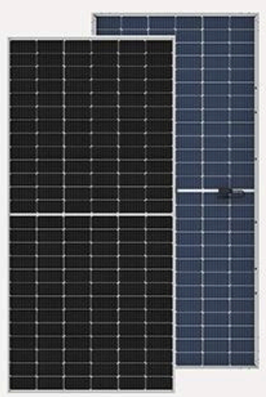


465~490W

Cell: 120cells
Weight: 24.2kg
Size:1903*1134*30mm

565~590W

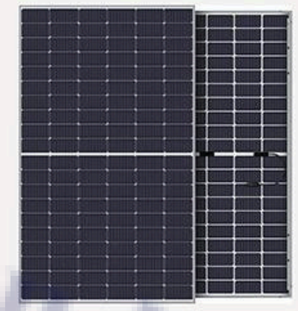
Cell: 144cells
Weight: 28kg
Size:2278*1134*35mm



605~635W

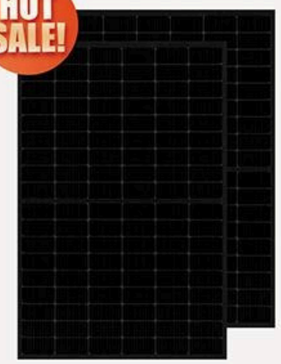
Cell: 156cells
Weight: 30.6kg
Size:2465*1134*35mm

HJT SOLAR PANEL



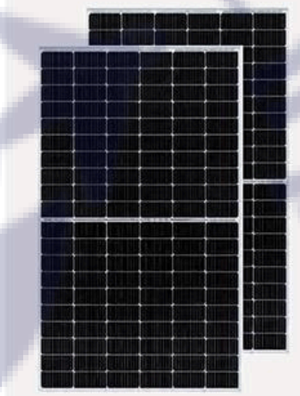
385~405W

Cell: 120cells
Weight: 22.8kg
Size:1755*1038*30mm



420~445W

Cell: 108cells
Weight: 23kg
Size:1722*1134*30mm

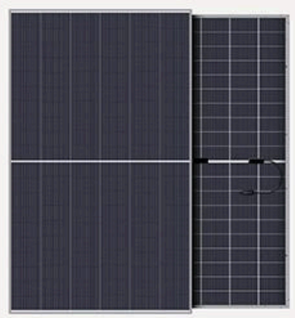


470~500W

Cell: 120cells
Weight: 26.4kg
Size:1914*1134*30mm

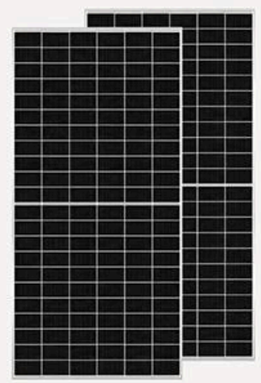
570~595W

Cell: 144cells
Weight: 32.3kg
Size:2278*1134*30mm



620~640W

Cell: 120cells
Weight: 34.9kg
Size:2172*1303*35mm



700~730W

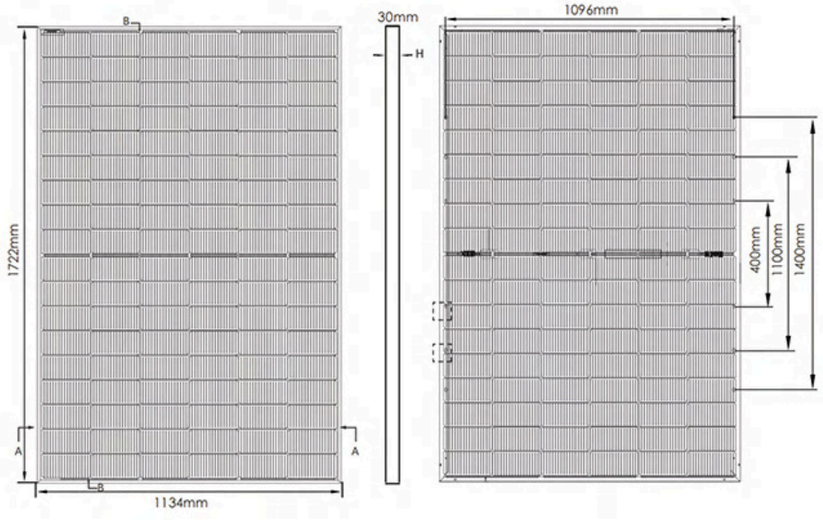
Cell: 132cells
Weight: 38.3kg
Size:2384*1303*33mm

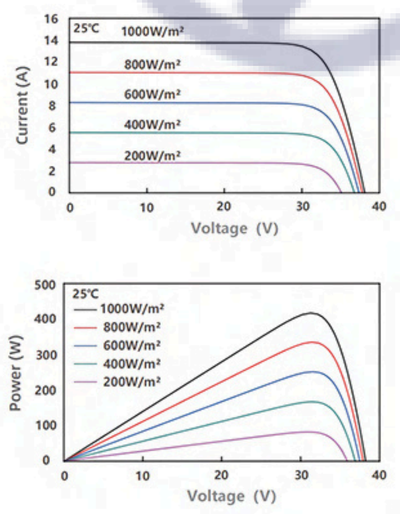
SW440N-108-BIFACIAL

Cell	N Type TOPcon Mono 182*91mm
Weight	24.5kg
Size	1722*1134*30mm
No.of Cells	108(6*18)
Junction Box	IP68
Maximum System Voltage	DC1000V/1500V
Maximum Series Fuse	25A
Moduels Per Pallet	36Pcs
Moduels Per 40HQ	936Pcs

ELECTRICAL PARAMETERS

Module	SW415N-108 ~ SW440N-108					
Encapsulation	Class/Eva/Cell/Eva/Backsheet					
Maximum Power Pmax (W)	415	420	425	430	435	440
Maximum Power Voltage (Vmp/V)	31.70	31.90	32.10	32.30	32.50	32.70
Maximum Power Current (Imp/A)	13.10	13.17	13.24	13.32	13.39	13.46
Open Circuit Voltage (Voc/V)	37.70	37.90	38.10	38.30	38.40	38.60
Short Circuit Current (Isc/A)	13.91	13.98	14.05	14.12	14.18	14.24
Module Efficiency (%)	21.30	21.50	21.80	22.00	22.30	22.50



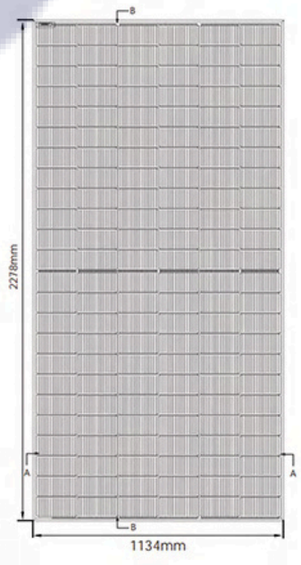


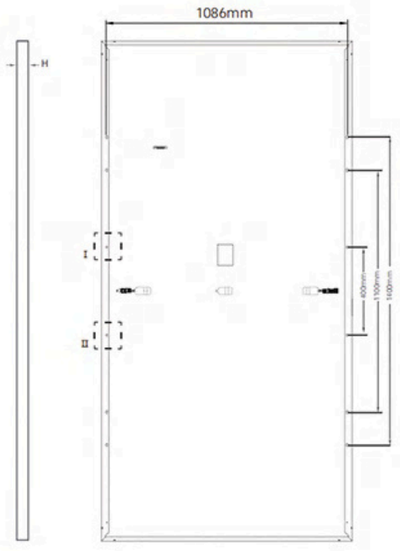
SW590N-144-BIFACIAL

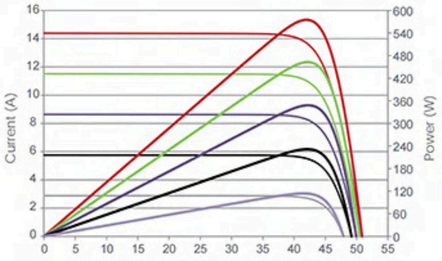
Cell	N Type TOPcon Mono 182*91mm
Weight	28kg
Size	2278*1134*35mm
No.of Cells	144(6*24)
Junction Box	IP68
Maximum System Voltage	DC1000V/1500V(IEC)
Maximum Series Fuse	25A
Moduels Per Pallet	31Pcs
Moduels Per 40HQ	620Pcs

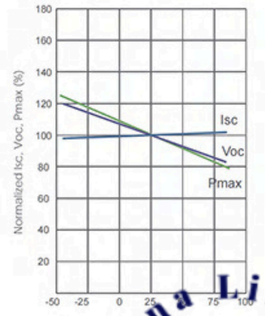
ELECTRICAL PARAMETERS

Module	SW565N-144 ~ SW590N-144					
Encapsulation	Class/Eva/Cell/Eva/Backsheet					
Maximum Power Pmax (W)	565	570	575	580	585	590
Maximum Power Voltage (Vmp/V)	41.92	42.07	42.22	42.37	42.52	42.67
Maximum Power Current (Imp/A)	13.48	13.55	13.62	13.69	13.76	13.83
Open Circuit Voltage (Voc/V)	50.60	50.74	50.88	51.02	51.16	51.30
Short Circuit Current (Isc/A)	14.23	14.31	14.39	14.47	14.55	14.63
Module Efficiency (%)	21.87	22.07	22.26	22.45	22.65	22.85



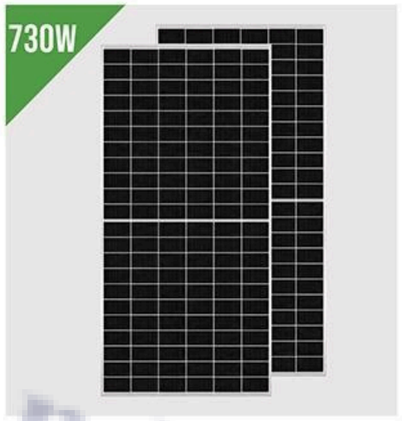






SW595N-144

Cell	N Type HJT Mono 182*91mm
Weight	32.3kg
Size	2278*1134*30mm
No.of Cells	144(6*24)
Junction Box	IP68 Rated
Maximum System Voltage	DC 1500V
Maximum Series Fuse	30A
Moduels Per Pallet	36Pcs
Moduels Per 40HQ	720Pcs



SW730N-132

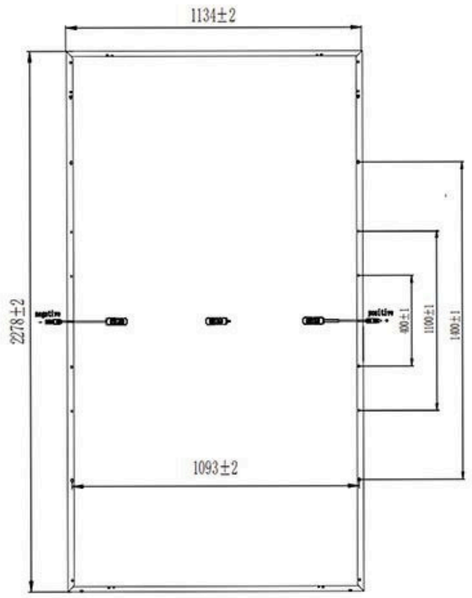
Cell	N Type HJT Mono 210*105mm
Weight	38.3kg
Size	2384*1303*33mm
No.of Cells	132(6*22)
Junction Box	IP68, 3 Bypass Diodes
Maximum System Voltage	DC 1500V
Moduels Per Pallet	33Pcs
Moduels Per 40HQ	594Pcs

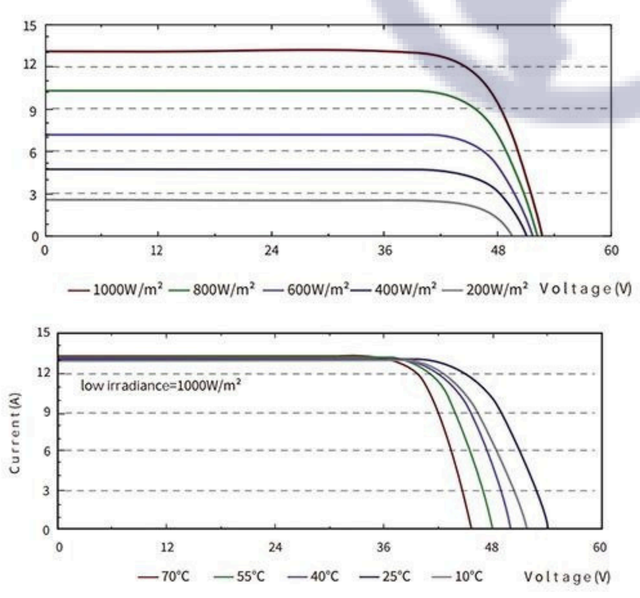
ELECTRICAL PARAMETERS

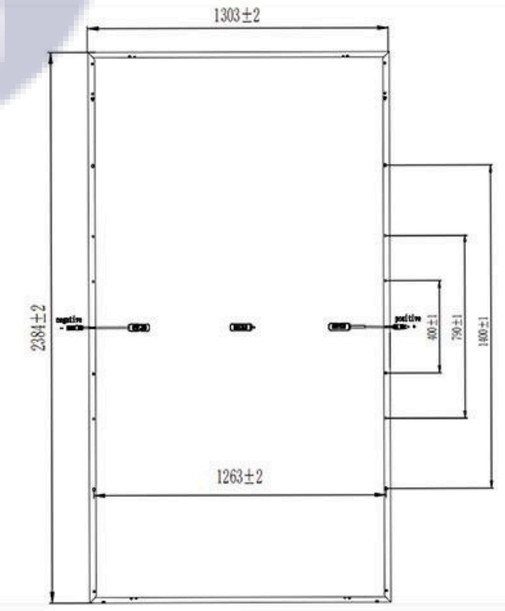
Module	SW570N-144 ~ SW595N-144					
Encapsulation	Class/Eva/Cell/Eva/Backsheet					
Maximum Power Pmax (W)	570	575	580	585	590	595
Maximum Power Voltage (Vmp/V)	46.46	46.79	47.12	47.41	47.75	48.03
Maximum Power Current (Imp/A)	12.27	12.29	12.31	12.36	12.36	12.39
Open Circuit Voltage (Voc/V)	53.13	53.44	53.73	53.99	54.31	54.64
Short Circuit Current (Isc/A)	13.12	13.14	13.16	13.19	13.21	13.24
Module Efficiency (%)	22.07	22.26	22.45	22.65	22.85	23.04

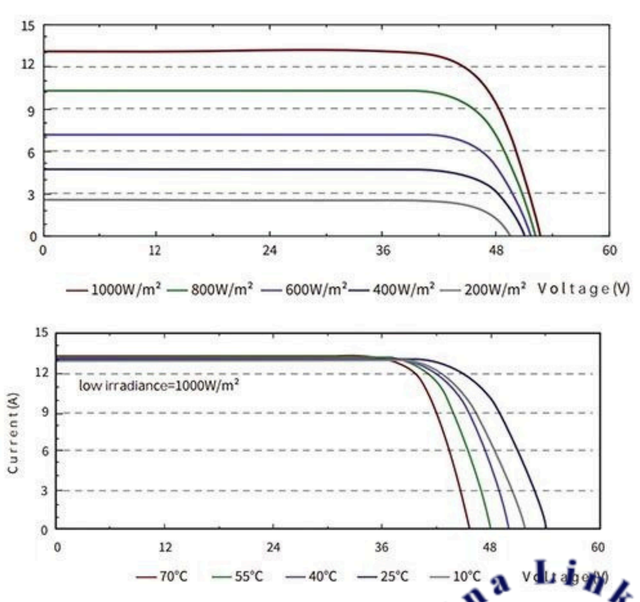
ELECTRICAL PARAMETERS

Module	SW700N-132 ~ SW730N-132						
Encapsulation	Class/Eva/Cell/Eva/Backsheet						
Maximum Power Pmax (W)	700	705	710	715	720	725	730
Maximum Power Voltage (Vmp/V)	43.00	43.23	43.46	43.68	43.91	44.13	44.35
Maximum Power Current (Imp/A)	16.28	16.31	16.34	16.37	16.40	16.43	16.46
Open Circuit Voltage (Voc/V)	50.31	50.51	50.71	50.91	51.11	51.31	51.71
Short Circuit Current (Isc/A)	17.21	17.23	17.25	17.27	17.29	17.31	17.33
Module Efficiency (%)	22.53	22.70	22.86	23.02	23.18	23.34	23.50









EU SOLAR INVERTER

Single phase 220v LN / Three-phase 400v 3W+N+PE

1.ON GRID INVERTER

On grid inverter is a special inverter, in addition to the DC can be converted to alternating current, its output alternating current can synchronize with the frequency and phase of the mains, so the output alternating current can be returned to mains.

3~6KW

MPPT efficiency > 99.9%

Two MPPT design

No fans design

Quick and easy installation

3~25KW

Quick arc fault circuit interruption

WIFI standard

Compact design

Multiple intelligent protections

30KW

MPPT efficiency > 99.9%

IP 68 cooling fan

Intelligent temperature control system

Type II DC & AC lightning protection

30~60KW

MPPT efficiency > 99.9%

IP 68 cooling fan

AC output 1.1x continuous operation

Adjust power factor

2.HYBRID STORAGE INVERTER

When the power grid is normal, the inverter switches to the grid-connected power generation mode. When the power grid is abnormal, the inverter will automatically detect the switch to the off-grid power generation mode. Although the power grid is abnormal, the inverter will continue to output the photovoltaic power inverter into high-quality AC power to supply the load.

1~6KW

Support for time-of-use optimization

Configurable operation modes

Build in anti-feed-in function

Compact size and easy installation

3~30KW

Support for time-of-use optimization

Configurable operation modes

Build in anti-feed-in function

Smart monitoring

3.OFF GRID INVERTER

The off-grid inverter is a power conversion device, which pushes and pulls the input DC to boost the voltage, and then converts the input DC into 220V AC through the inverter bridge SPWM sinusoidal pulse width modulation technology.

3.5KW/5.5KW

- Pure sine wave solar inverter
- Output power factor 1
- High PV input voltage range
- Built-in MPPT solar controller
- Wifi/GPRS remote monitoring

8-12KW

- IP65 protection grade for outdoor use
- Time-slot charging & discharging for peak and valley price
- Support self-use/without battery/on-grid output mode
- Support BMS communication
- Up to 1000V PV input voltage, ideal for high power

10~30KW

15~30KW

30~500KW

US SOLAR INVERTER

Single phase 120v LN / Split Phase 120/240v LNL
Three-phase 230v 3W+N+PE / Three-phase 480v 3W+N+PE

1.ON GRID INVERTER

3~6KW

MPPT efficiency > 99.9%
Two MPPT design
No fans design
Quick and easy installation

3~15KW

Quick arc fault circuit interruption
WIFI standard
String level monitoring
Multiple intelligent protections

17~30KW

MPPT efficiency > 99.9%
IP 68 cooling fan
Intelligent temperature control system
Type II DC & AC lightning protection

30~60KW

MPPT efficiency > 99.9%
IP 68 cooling fan
AC output 1.1x continuous operation
Adjust power factor

2.HYBRID STORAGE INVERTER

Sunway storage inverters delta voltage series are designed to increase energy independence for homeowners and commer-cial users. The power range is from 3kW to 17kW, compatible with low voltage (150-800V) batteries.Energy management is based on time-of-use and demand charge rate structures, significantly reduce the amount of energy purchased from public grid.Thanks for the UPS function (switch time < 10ms), enables the crucial loads power on during outages. Additionally, under the backup operation mode, the inverter pro-vides you up to 150% peak output overloading.

3~9.6KW

Support for time-of-use optimization
Configurable operation modes
Build in anti-feed-in function
Compact size and easy installation

3~17KW

Support for time-of-use optimization
Configurable operation modes
Build in anti-feed-in function
Smart monitoring

3.OFF GRID INVERTER

The off-grid inverter is a power conversion device, which pushes and pulls the input DC to boost the voltage, and then converts the input DC into 120v or split phase AC through the inverter bridge SPWM sinusoidal pulse width modulation technology.

5KW

- Suitable for of-grid applications
- Stable output of pure sine waves
- Support BMS communication
- Multiple charge and discharge modes are available

8KW/10KW

- IP65 protection grade for outdoor use
- Time-slot charging & discharging for peak and valley price
- Support self-use/without battery/on-grid output mode
- Support BMS communication

10~30KW

15~30KW

30~500KW

SOLAR BATTERY

——SUNWAY BRAND LITHIUM BATTERY

SW51B100TW2/SW51B200TW2

5.22KWH/10.44KWH

FEATURES:

- Reduce floor space,wall-mounted installation(PowerWall)
- LFP rechargable battery A+ Grade cell
- IP65 protection class,suit for outdoor installation
- Extramly long life cycle,more than 6000 times or 10 years
- Good extendibility,5kWh each,easy extend to 5kWh/10kWh/15kWh..
- Good compatibility,standard communication protocal.CAN and RS485, compatible with most popular hybrid and off grid inverters in the market

SW48B-HV-2500

Nominal Voltage: 144-384V

Nominal Capacity: 52AH

Nominal Energy: 2.5-20kWh

Advantage:

- Modular design
- Capacity/power can be freely selected
- Safe and reliable
- More than 6000 times or 10 years
- Reliable LiFePO4 battery cell

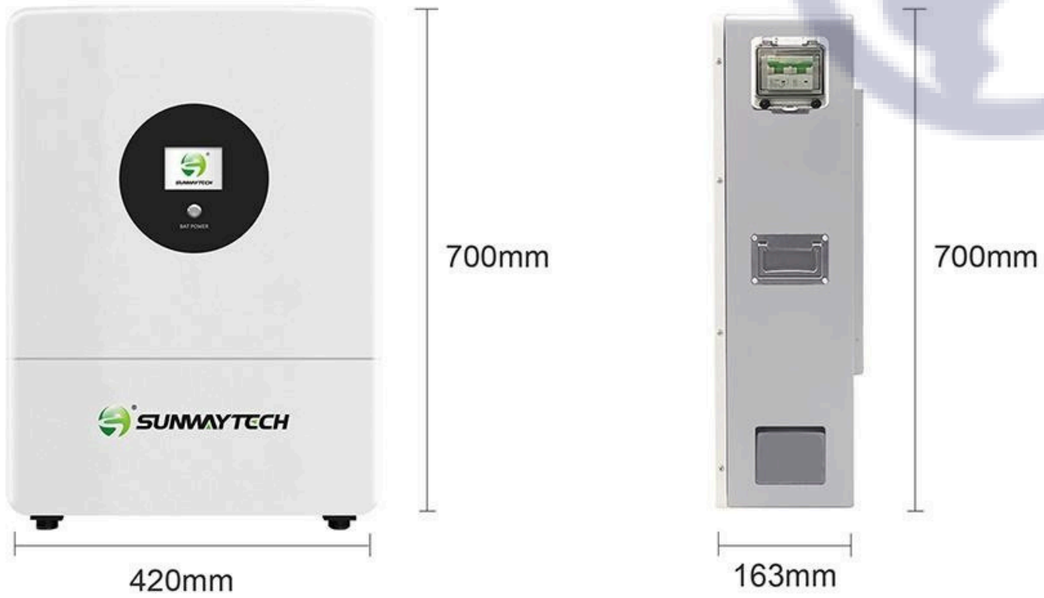
SWB51100

Nominal Voltage: 51.2V

Single Module Capacity: 5.12kwh

Module Size: 600*440*200mm

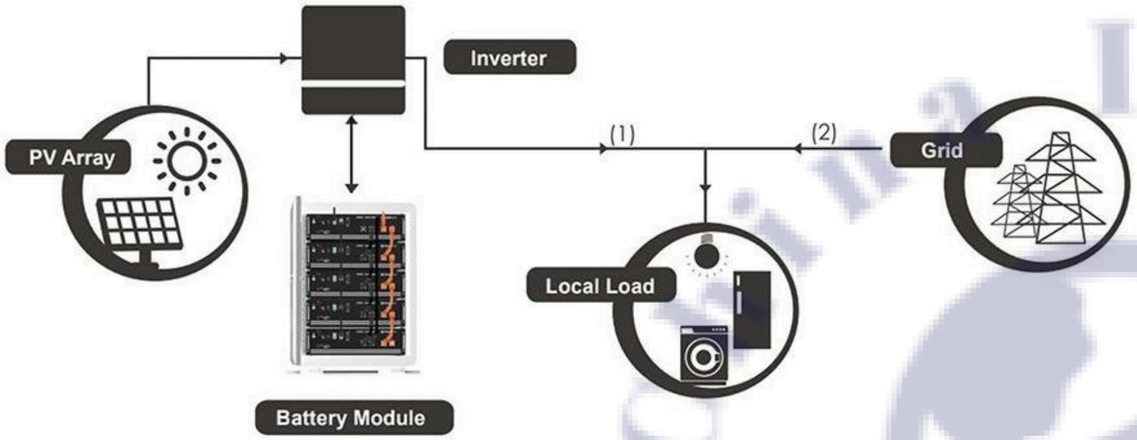
PRODUCT SIZE:



SOLAR BATTERY

——RACK MOUNTED LITHIUM BATTERY

Lithium-ion battery is a kind of battery which is made of lithium metal or lithium alloy as positive/ negative material and uses non-aqueous electrolyte solution.



Working Principle

FEATURES:

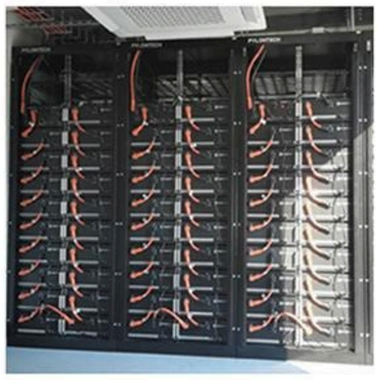
- Compact size and light weight
- 6000 cycles,10 years design life
- Safe lithium iron phosphate battery cell
- Standard design with helpful pulling ear quick stacking
- TUV,CE,IE62619,IEC62040,UN38.3 CEC,MSDS certifications
- Each module is equipped with an independent BMS system

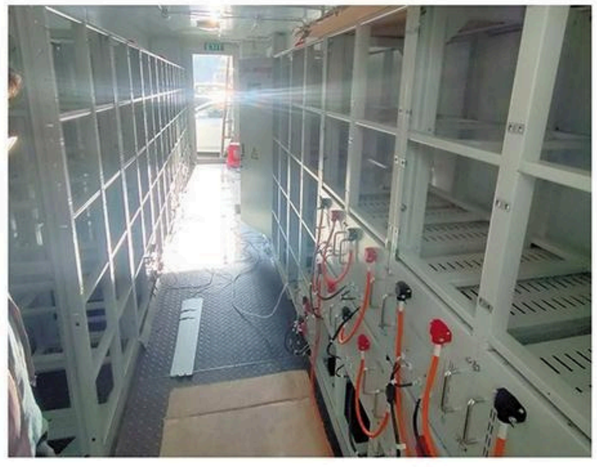
PRODUCT DISPLAY

50AH/100AH/200AH








GEL LEAD ACID BATTERY(12V/2V)

Gel lead-acid battery is an improvement of ordinary lead-acid battery with liquid electrolyte. The colloid electrolyte is used to replace sulphuric acid electrolyte. Compared with ordinary battery, the gel electrolyte has better safety, storage capacity, discharge performance and service life.

FEATURES:

- Deep cycle long lifespan
- High discharge performance
- Easy installation and maintenance-free
- The designed life for the battery could be eight years up for float use
- Contemporary advanced technology research and developent of new high-performance battery

BATTERY PARAMETERS

Reted Voltage	12V				2V					
Capacity	100Ah	150Ah	200Ah	250Ah	500Ah	800Ah	1000Ah	1500Ah	2000Ah	3000Ah
Weight	28.8kg	42.5kg	56.7kg	70.5kg	29.2kg	49.5kg	58kg	92kg	123kg	181kg
Max Discharge Current	30I 10A(3min)									
Max Charge Current	≤0.25C 10									
Self Discharge(25℃)	<3% month									
Recommended Using Temperature	15℃~25℃									
Cover Material	ABS									
Using Temperature	Discharge:-45℃~50℃			Charge:-20℃~45℃			Storage: -30℃~40℃			
Charge Voltage(25℃)	Float Charge:13.5V-13.8V Average Charge:14.4V-14.7V				Float Charge:2.23-2.27V Average Charge:2.35-2.40V					
Charge Mode(25℃)	Float Charge:2.275±0.025V/Cell Cycle Charge:2.45±0.05V/Cell				Temperature Compensation Coefficient :±3 mV/Cell ℃ Temperature Compensation Coefficient: ±5 mV/Cell ℃					
Cycle Life	100%DOD 572times; 50%DOD 1422 times; 30%DOD 2218times.				100%DOD 1260times, 80%DOD 1770 times					
Capacity Affected by Temperature	105%@40℃,85%@0℃,60%@-20℃									

LITHIUM IRON PHOSPHATE BATTERY

Longer Cycle Life

LiFePO4 batteries would be is five times than SLA batteries on cycle life

High Power&Light weight

LiFePO4 batteries performance twice power of SLA batteries.while half weight helpful for transport and installation

Intelligent management control

Intelligent BMS system covered by LFP batteries to ensure thatbatter-ies work on safety and perfect condition

Lower Self-discharge rate

Lower Self-discharge rate to guarantee LFP batteries be stored more longer than SLA batteries

BATTERY PARAMETERS

Model	SW25100	SW25200
Chemistry	LiFePO4	
Nominal Voltage	25.6V	
Nominal Capacity	100Ah(C5,25°C)	200Ah(C5,25°C)
Energy	2560Wh	5120Wh
Internal Resistance	≤50mΩ	
Cycle Life	>6000cycles@0.5C80%DOD	
Months Self Discharge	<3%	
Efficiency of Charge	100%@0.5C	
Efficiency of Discharge	96-99%@1C	
Charge Voltage	29.2±0.2V	
Charge Mode	0.2C to 29.2V,then 29.2V,charge current to 0.02C(CC/CV)	
Charger Current	100A	200A
Max.Charge Current	100A	200A
Charge Cut-off Voltage	31.2V±0.2V	
Rated Discharge Current	100A	200A
Max Discharge Current	100A	200A
Max.Pulse Current	600A(<3s)	
Discharge Cut-off Voltage	20V	
Water Dust Resistance	IP65	
BMS	4P SMART Bluetooth	
Plastic Case	ABS	
Dimensions	483*170*240mm	640*245*220mm
Weight	19kg	38kg
Terminal	M8	

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