



ABOUT SUNPOWER

Sunpower Solar Energy Solutions is a trusted manufacturer and global exporter of high-performance solar energy products.

With over 20 years of industry experience, we specialize in manufacturing durable and efficient energy storage solutions designed for long service life.

Our focus on strict quality standards, reliable supply, and professional service has earned us the trust of clients across global markets.

We deliver reliable, scalable, and cost-effective solar solutions tailored for international markets.



AT **SUNPOWER** Solar Energy Solutions

At Sunpower Solar Energy Solutions, we don't just sell products-we deliver reliable energy solutions built for long-term performance. Every product reflects our commitment to quality, efficiency, and customer satisfaction.

Our Strength

End-to-End Solar Energy Solutions
Factory-Direct Supply with Competitive Pricing
OEM & Custom Branding Support
Strict Quality Control & Testing
Export-Ready with Complete Logistics Support

Our Product Range Includes :-

- LiFePO4 Lithium Batteries Pack
- Hybrid Solar Inverters
- N-Type Monocrystalline Bifacial Solar Panels
- Deep Cycle Batteries (Tubular Technology)

WHY CHOOSE SUNPOWER

- 20+ Years Manufacturing Experience
- Consistent Export Quality
- Competitive Pricing Advantage
- Strong Global Supply Network
- Professional After-Sales Support
- OEM Capability



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Lithium Battery Pack Series

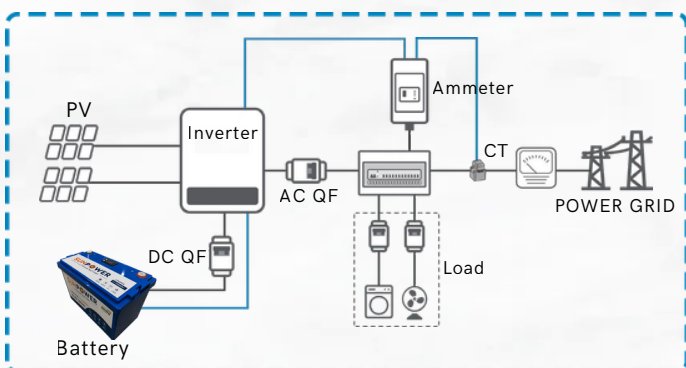
A Professional Storage Battery Manufacturer

Supports Series & Parallel Expansion for Scalable Applications

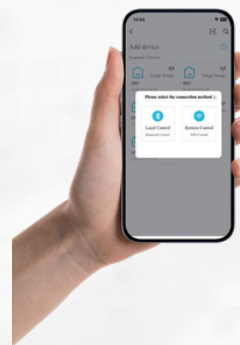
Why Choose Sunpower LiFePO4 Lithium Battery Series (12.8V)

- LiFePO4, efficient, stable and safe
- Simple and Convenient installation, more worry free
- Support in parallels connection for higher storage capacity
- LCD+Built-in WIFI, real time monitoring
- Long Lifespan exceeding 8000+ cycles

Wiring Diagram 接线图



Supports Bluetooth



Technical Specifications – SUNPOWER 12.8V Lithium Battery Series

Parameter	12.8V 100Ah	12.8V 200Ah	12.8V 300Ah
Nominal voltage	12.8V		
Rated Capacity	100Ah	200Ah	300Ah
Operating voltage Range	10v-14.6v		
Recommended charging current	20A	40A	60A
Max Continious Discharge current	100A	200A	300A
Nominal Capacity	1280Wh	2560Wh	3840Wh
Battery type	LiFePO4 Battery Pack		
Maximum Charging current	100A	200A	300A
Maximum discharge current	100A	200A	300A
Product size	332x231x171 (LxBxH) mm	522x238x218 (LxBxH) mm	384x194x255 (LxBxH) mm
Weight	11 kgs	12.2 kgs	26 kgs
Battery cycle life	8000 cycles		
Storage/ Working Temperature	-20C - 60C		
Warranty	5 Years		
Parallel connection quantity	15 units maximum		
BMS	PACE-100A-4S	PACE-200A-4S	PACE-300A-4S
Display	yes		
Bluetooth/ Wifi	Supportive		

Ideal Replacement for Lead-Acid Batteries | Higher Efficiency | Longer Lifespan



Performance Warranty

- 5 years warranty
- Reliable performance under solar applications

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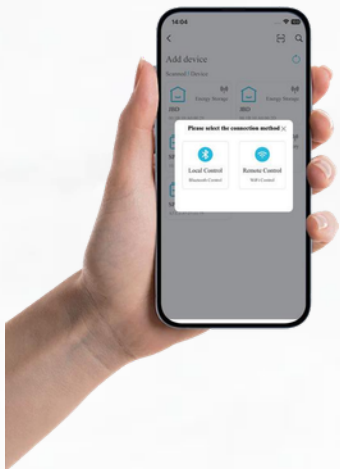
LiFePO4 Lithium Batteries (Wall Mounted & Floor Mounted) 5kWh | 10kWh | 15kWh | 16kWh | 20kWh Systems)

Designed for high-efficiency energy storage with advanced BMS protection and long-term reliability for global solar applications.

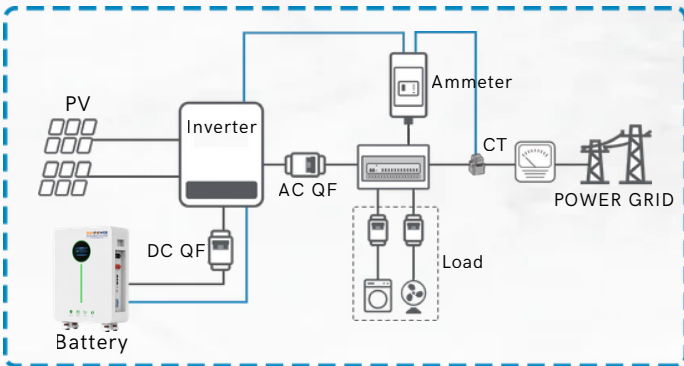
- Newly upgraded, LED power display allows users to have a more intuitive understanding of battery usage
- Intelligent BMS system to prevent overcharging, overdischarging, and overheating
- OEM, ODM are available
- LCD+built-in WiFi,real-time monitoring
- Beautiful appearance and supports parallel use of multiple batteries



Supports Bluetooth & WiFi



Wiring Diagram 接线图



Technical Specifications – LiFePO4 Lithium Battery (Premium Series)

Parameter	51.2V 100AH (5KWH)	51.2V 200AH (10KWH)	51.2V 300AH (15KWH)	51.2V 314AH (16KWH)
BMS	Yes	Yes	Yes	Yes
Battery Type	LiFePO4			
Nominal Voltage	51.2V			
Operating Voltage	40V~58.4V			
Nominal Energy	5.12kWh	10.24kWh	15.36kWh	16.07kWh
Max Charge Current	50A	100A	135A	140A
Max Discharge Current	100A	200A	300A	314A
Max Charging Voltage	58.4V			
Charging Cut-off Voltage	58.4V			
Discharging Cut-off Voltage	40V			
Nominal Capacity	100A	200A	300A	314A
Cycle Life	8000+ Cycles			
Warranty	5 Years			
Parallel Connection	Up to 15 Units			
Charge Temperature	0°C ~ 45°C			
Discharge Temperature	-20°C ~ 55°C			
Storage Temperature	-5°C ~ 35°C			
Case Material	SPCC			
Communication	CAN / RS232 / RS485			
Net Weight	48kg	115kg	130kg*	136kg
Gross Weight	58kg	130kg	150kg*	155kg
Battery Dimension (mm)	660×360×200	680×410×260	780×410×260*	800×410×260
Packing Dimension (mm)	700×410×300	740×470×460	840×470×460*	860×470×460
CBM calculation	0.0861 CBM	0.1599 CBM	0.1816 CBM	0.1859 CBM



Performance Warranty

- Battery 10 Years | BMS 5 Years Warranty
- Reliable performance under solar applications

SUNPOWER

MPPT Solar Inverter – Pure Sine Wave Series Available

Models: 1.5kVA | 2.5kVA | 4kVA | 5kVA | 6.5kVA | 12kVA

Smart Power. Stable Output. Built for Global Use.

Why Choose Sunpower MPPT Solar Inverters

Pure Sine Wave Output

Ensures stable and clean power supply, safe for all appliances and sensitive electronics.

Battery Optional Operation

Can operate without battery, reducing system cost and increasing flexibility.

Built-in MPPT Solar Controller

Advanced MPPT technology with high efficiency and fast solar charging performance.

Wide PV Input Voltage Range

Supports wide solar input range, ensuring better compatibility with different panel configurations.

Dual Charging Support (AC + Solar)

Automatic charging through grid and solar for uninterrupted power supply.

Smart Battery Management System

Optimized charging improves battery life and overall system efficiency.

WiFi Monitoring (Optional)

Remote monitoring and control through mobile or PC.

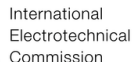
Designed for Harsh Conditions

Dust-resistant design suitable for challenging environments.



Technical Specifications – MPPT Solar Inverter

MODEL	SPI-S1500	SPI-S2500	SPI-S4000	SPI-S5000	SPI-S6500	SPI-S12000
Rated Power	1500W	2500W	4000W	5000W	6500W	12000W
Phase	1-phase in / 1-phase out					
Maximum PV Input Power	800W	3000W	5000W	9000W	9000W	15000W
Acceptable Input Voltage Range	90~280 VAC					
Frequency Range	50/60 Hz (Auto sensing)					
Rated Input Voltage	220/230/240VAC					
Nominal Output Voltage	220/230/240VAC					
Power Factor	1 PF					
Switch Time (ms)	10 (APP/UPS mode) /20 (GEN mode)					
Wave Form	Pure Sine Wave					
Surge Power	2.4 kVA	4 kVA	7.2 kVA	10 kVA	12 kVA	24 kVA
Maximum Efficiency (Battery Mode)	90%	91%	92%	93.50%	94%	94%
MPPT Voltage Range	17~115Vdc	30~400Vdc	40~450Vdc	60~450Vdc	60~450Vdc	60~450Vdc
MPPT Trackers / Max Input Current	1/18A	1/18A	1/18A	1/27A	1/27A	2/22.5A
Maximum PV Charge Current	50A	100A	100A	160A	120A	160A
Maximum AC Charge Current	50A	100A	100A	160A	120A	160A
Max Charge Current (PV+AC)	100A	100A	100A	160A	120A	160A
Max PV Open Circuit Voltage	115VDC	450VDC	500VDC	500VDC	500VDC	500VDC
PV Start-up Voltage	20Vdc	40Vdc	60Vdc	80Vdc		
Battery Voltage	12VDC		24VDC		48VDC	
Battery Type	Lithium / Lead-acid					
Dimension (mm)	320×227×110	375×290×110	435×285×98	410×336×115	440×335×117	527×435×138
Net Weight (kg)	3.5	4.9	5.6	8	8.4	14.5
Display	LCD					
Communication	RS485 / CAN / RS232					
Monitoring	WiFi Optional					
IP Grade	IP21					
Humidity	5%~95%					
Operating Temperature	-10°C~60°C					
Storage Temperature	-15°C~60°C					
Max Operating Altitude	4000m					



Performance Warranty

- 24 Months Warranty
- Reliable performance under solar applications

SUNPOWER

N-Type Monocrystalline Bifacial Solar Panels

(585W/620W)

High-Efficiency N-Type TOPCon Bifacial Modules for Utility & Commercial Applications

Why Choose Sunpower N-Type Monocrystalline Bifacial Solar Modules

Higher Power, Better Returns

Generates more energy (5–25% higher output), maximizing your system efficiency and profitability.

Advanced Cell Technology

SMBB & N-Type (Hot 2.0) technology ensures better performance, durability, and long-term reliability.

Reliable in All Conditions

Strong build quality with high resistance to wind (2400 Pa) and snow (5400 Pa).

Long-Term Stable Performance

Anti-PID design reduces degradation, ensuring consistent output over the years.

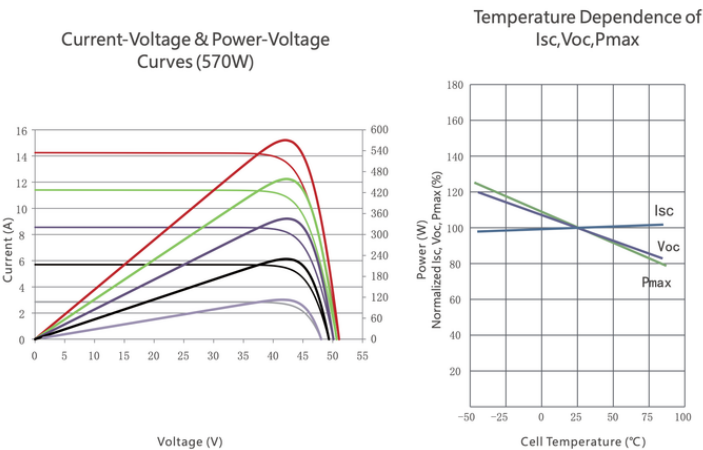


Technical Specifications – N-Type Monocrystalline Bifacial Solar Panels

Parameter	SP-N585W	SP-N620W
Maximum Power (Pmax)	585W	620W
Maximum Power Voltage (Vmp)	44.10V	43.50V
Maximum Power Current (Imp)	13.30A	14.26A
Open Circuit Voltage (Voc)	52.70V	49.89V
Short Circuit Current (Isc)	14.05A	15.80A
Module Efficiency	22.80%	23.30%
Cell Type	N-Type Monocrystalline (TOPCon)	N-Type Monocrystalline (TOPCon)
No. of Cells	144 (6×24)	132 (6×22)
Operating Temperature	-40°C to +85°C	-40°C to +85°C
Maximum System Voltage	1500V DC	1500V DC
Fuse Rating	30A	30A
Power Tolerance	0 ~ +3%	0 ~ +3%
Dimensions	2278 × 1134 × 30 mm	2382 × 1134 × 30 mm
Weight	31.8 kg	32.3 kg
Front Glass	2.0 mm AR Coated Tempered Glass	2.0 mm AR Coated Tempered Glass
Back Glass	2.0 mm Tempered Glass	2.0 mm Tempered Glass
Frame	Anodized Aluminium Alloy	Anodized Aluminium Alloy
Junction Box	IP68 Rated	IP68 Rated



Electrical Performance & Temperature Dependence



Performance Warranty



15 Years Product Warranty
30 Years Linear Output Power Warranty
0.40% Annual Degradation Over 30 years

SUNPOWER

Deep Cycle Tubular Battery for Solar & Backup Applications (Avalible Models from 100ah to 300ah)

Reliable Power. Longer Life. Built for Solar.

Why Choose Sunpower Deep cycle Tubular Batteries

Longer Backup & High Efficiency

Delivers consistent power with extended backup time, ideal for both solar and inverter applications.

Heavy-Duty Tubular Plate Technology

Advanced tubular design ensures superior performance and long life even under deep discharge conditions.

Fast Charging Performance

Supports higher charging current, reducing charging time and improving overall efficiency.

Low Maintenance Design

Engineered for minimal water loss and hassle-free operation over long periods.

High Cyclic Life

Built to withstand repeated charge and discharge cycles, ensuring durability and long-term reliability.

Strong & Durable Build

Robust construction designed to perform reliably in tough environmental conditions.

Solar Optimized Battery

Specially designed for solar applications with excellent charge acceptance and energy retention.



Technical Specifications – Deep Cycle Tubular Battery

Model	Capacity (Ah)	Voltage	Weight (Kg)	Backup @ 400W Load	Battery Type	Cycle Life @80% DOD	Charging Current	Application
SPT-1000	100 Ah	12V	55	2:00 hrs	Tall Tubular	1500+ Cycles	10–12A	Home / Solar
SPT-1500	150 Ah	12V	60	3:00 hrs	Tall Tubular	1500+ Cycles	12–15A	Home / Solar
SPT-2000	200 Ah	12V	65	4:00 hrs	Tall Tubular	1600+ Cycles	15–18A	Home / Solar
SPT-2250	225 Ah	12V	68	4:30 hrs	Tall Tubular	1600+ Cycles	18–20A	Solar / Commercial
SPT-2500	250 Ah	12V	70	5:00 hrs	Tall Tubular	1700+ Cycles	20–22A	Solar / Commercial
SPT-2800	280 Ah	12V	75	5:30 hrs	Tall Tubular	1800+ Cycles	22–25A	Solar / Industrial
SPT-3000	300 Ah	12V	77.5	6:00 hrs	Tall Tubular	1800+ Cycles	25–30A	Solar / Industrial
Quantity 20FT	400	400	400	400	400	400	400	-----

Specifications can be customized as per client requirements

Customization & OEM Support

- Available in customized capacities and weight specifications as per client requirements
- Flexible design options for different market needs
- OEM branding support available (logo, labeling & packaging)



Performance Warranty

24 Months Warranty

Reliable performance under solar and inverter applications

Designed for long service life

OUR GLOBAL PRESENCE

Sunpower Solar Energy Solutions is proudly exporting high-quality solar products across multiple international markets.

Our growing global footprint reflects our commitment to delivering reliable and efficient energy solutions worldwide.

OUR GLOBAL PRESENCE



Trusted by clients across Africa, Asia, Europe & emerging global markets.

OUR GOAL

At Sunpower Solar Energy Solutions, our goal is to become a globally trusted brand in solar energy by delivering:

- Reliable & high-performance solar products
- Cost-effective energy solutions for developing and developed markets
- Sustainable and eco-friendly power systems
- Strong long-term partnerships with global clients

We aim to empower businesses and communities with clean, affordable, and uninterrupted energy solutions- contributing to a greener and energy-efficient future.

We are your
most trusted partner

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Thank you!