



Solar Battery Backup System

- 60W Solar panel 30Ah Battery
- 80W Solar panel 40Ah Battery
- 100W Solar panel 50Ah Battery

Solar power supply solution

The product's pole installation does not require digging or burying wires, and the layout can be freely arranged without blind spots.

The installation process is simple, with no need to cut off electricity or halt production, ensuring normal operations are not affected.



Traditional power supply solution

Cable power supply requires digging and burying wires, and in some scenarios, it is difficult to lay cables and power supply has to be abandoned.

The construction of cable power supply is difficult and costly.



Wide Temperature Working Capability

Equipped with an intelligent heating function, the system can discharge 100% of its energy without performance reduction in temperatures ranging from -20°C to 65°C



Intelligent Working Capability

With an automotive-grade SOC algorithm, the system intelligently adapts to charging current variations and continuously corrects SOC, effectively solving inaccuracies caused by fluctuating photovoltaic charging currents.



Breakthrough Working Capability

Highly scalable design allows expansion of up to 8 units in parallel, delivering stable and reliable power to the same electrical device.



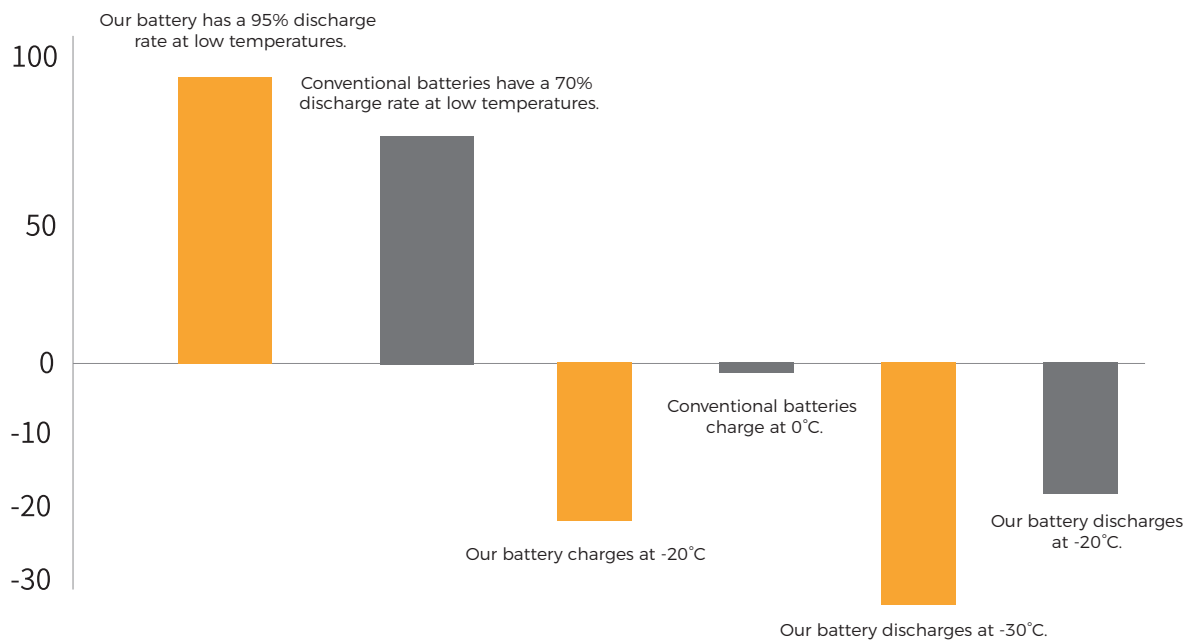
Safety Working Capability

Powered by an advanced BMS algorithm with dual hardware protection and triple software protection, the system provides instant protection against short circuits and overheating, ensuring maximum safety without delay.

Intelligent auxiliary heating technology supports wide temperature operation.

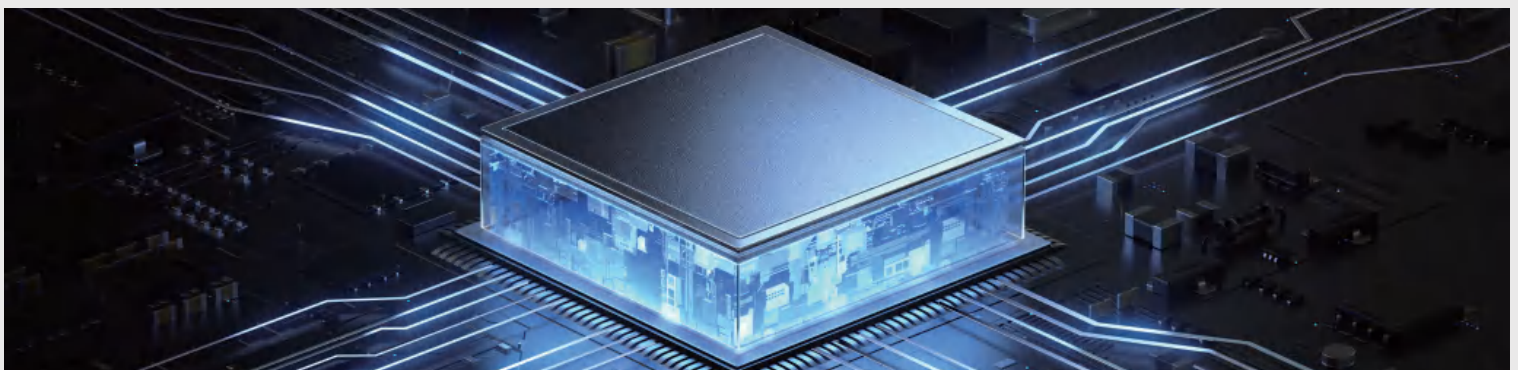
The intelligent battery module is designed with a low-temperature heating function and comprehensive protection features, including overcharge, over-discharge, overcurrent, over-temperature, and short-circuit protection, ensuring all-round safety and reliability.

It supports charging at -20°C and discharging at -30°C , with an auxiliary heating system powered directly by photovoltaics, without consuming battery energy. Even in extreme cold, the discharge efficiency remains exceptionally high, with less than 20% reduction and up to 95% discharge rate maintained.



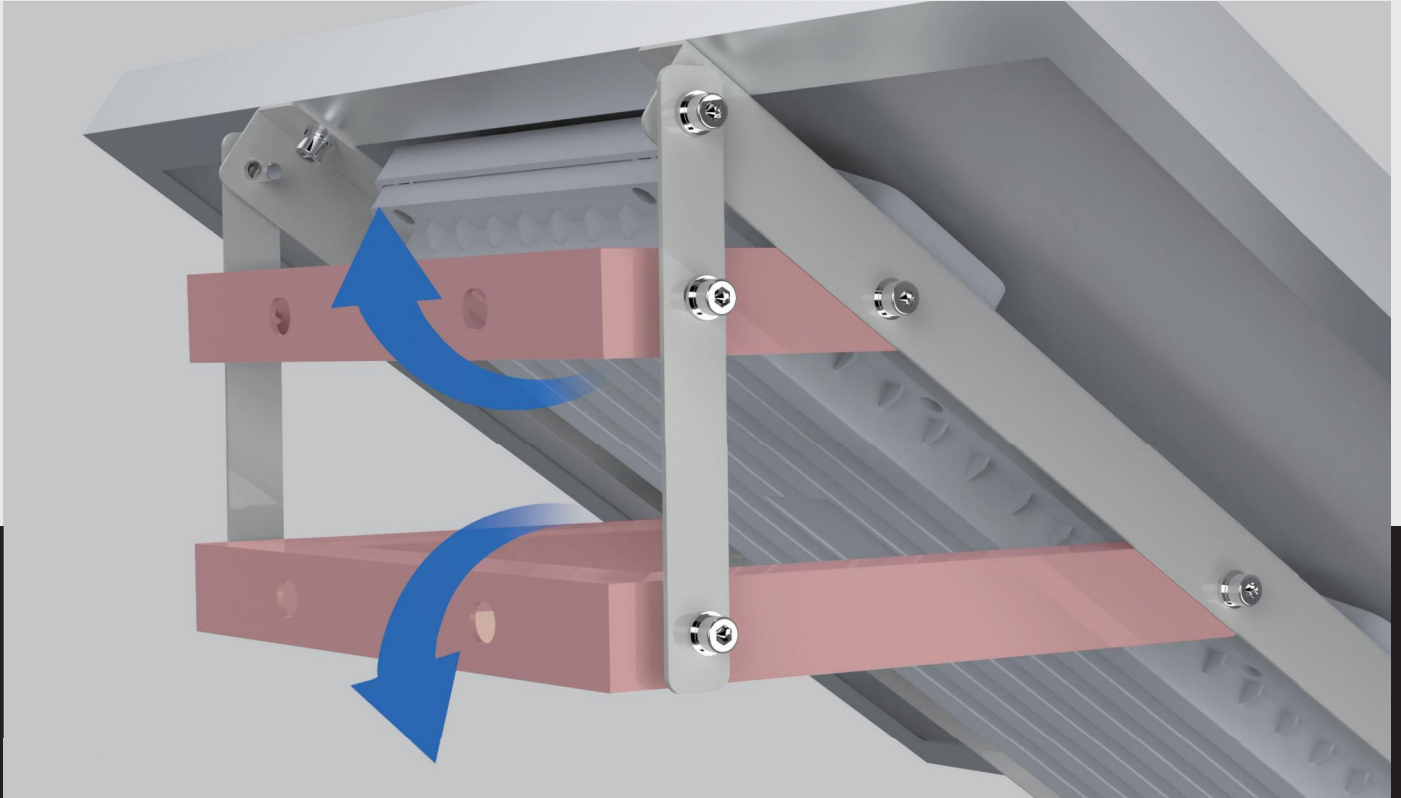
Automotive-grade intelligent SOC calibration function.

To avoid inaccuracies in SOC due to fluctuations in photovoltaic charging power, a patented intelligent SOC algorithm is used. It has the ability to adaptively learn from the photovoltaic charging state, and automatically calibrates the SOC according to different power generation situations in different environments to avoid system misjudgments and trigger protection.



The installation is flexible and effortless

The exclusive design features a foldable support, which is small in size after folding and easy to carry. It is secured with 8.8 grade high-strength screws. The entire installation process can be easily completed by one person.



IP65 dustproof and waterproof enclosure

Intelligent solar power system with IP65 industrial-grade dust and water resistance. Long-lasting, adaptable to various outdoor scenarios.

Overall waterproof rating

IP65 level



The lifespan of solar panels can exceed 25 years

We select high-quality, single-item, A-grade solar panels from the industry. Compared to B-grade or multi-item solar panels on the market, they have higher conversion efficiency and longer lifespan. with a conversion efficiency of up to 21.6%, it is comparable to national-level solar power plants. The output power can reach 60W per panel 80W per pane and 100W per panel with a lifespan of more than 25 years.

monocrystal

Output power

Output power

Output power

A level

60 W/piece

80 W/piece

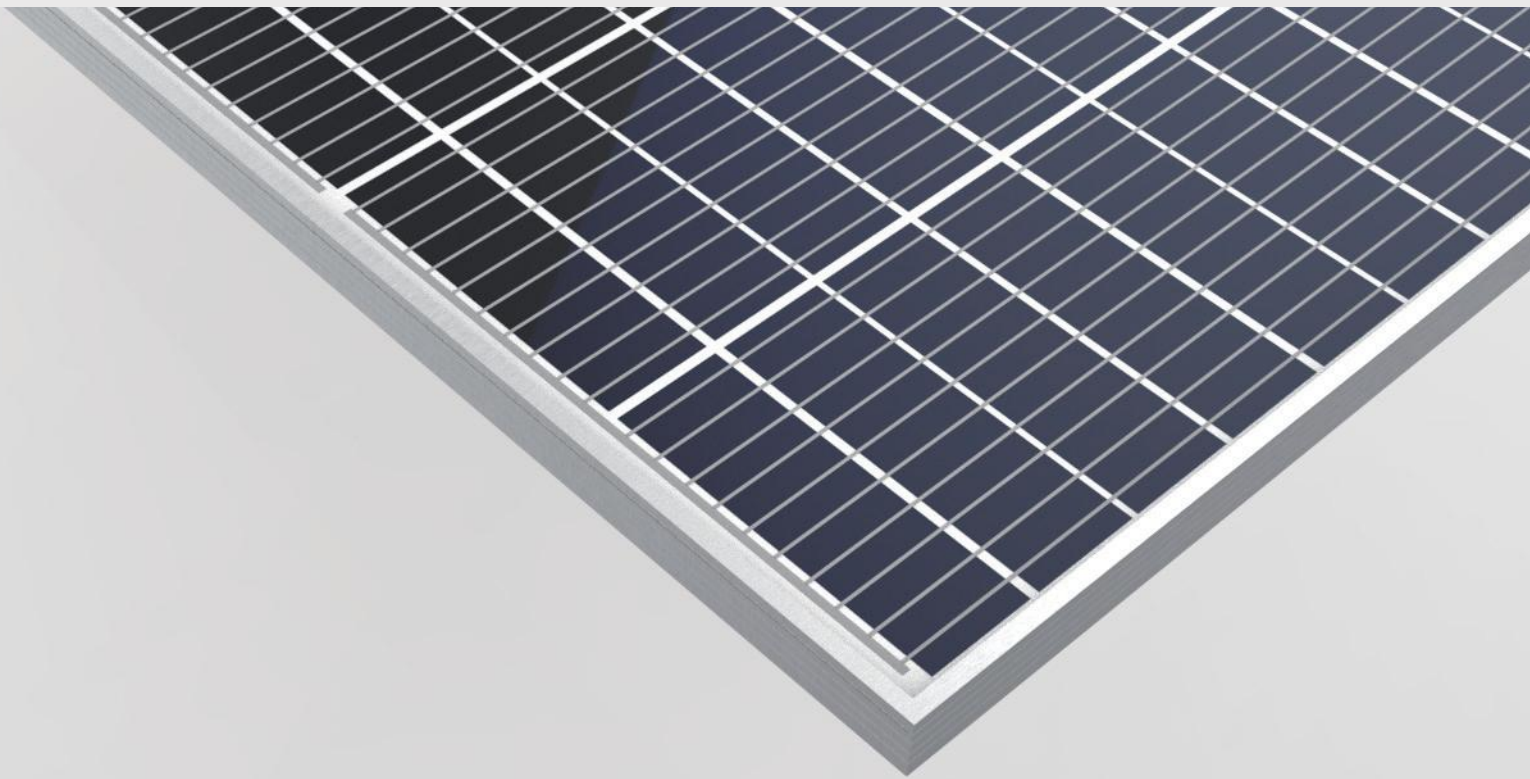
100 W/piece

Solar energy

S60W

S80W

S80W



Conversion efficiency

21.6%

Polycrystalline solar modules



Conversion efficiency 17-18%

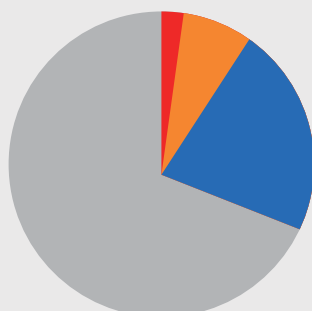
Components of this product



Conversion efficiency can be reached 21.6%

Service life

25 Years or more



- A-grade solar panels: Mainly used for solar power stations, with a lifespan of over 25 years.
- B-grade solar panels: Mainly used for street lights, electric vehicles etc., with a lifespan of about 5 years.
- C-grade solar panels: inferior panels with a short lifespan and unguaranteed quality.

Solar Battery Backup System

Parameter	H30S60-N	H40S80-N	H50S100-N
Charge			
PV Power	60W	80W	100W
PV Input Voltage	18V	18V	18V
Material	Monocrystalline silicon		
Energy Storage			
Battery Type	NMC		
Battery Capacity	30AH	40AH	50AH
Total Energy	333Wh	444Wh	555Wh
Discharge Depth	95%DOD		
Deep Cycles	>1000		
Nominal Voltage	11.1V		
Working Voltage Range	9.6~12.6VDC		
Discharge			
Output Voltage	11.1~12.6V DC（Can be customized）		
Maximum Output Current	10A		
Efficiency	>99%		
Function			
Communication	RS485		
Battery Heating	Charging current > 2A and lower than -5℃ turns on (can be customized)		
Protection Type	Overcurrent/overvoltage/short circuit/undervoltage/temperature		
Operating Temperature Range	-20℃~65℃		
Status Indicator	LED (charging status, battery status, output status)		
General Parameters			
Output Method	Standard DC plug 5521 (can be customized)		
Output Line Length	1.5m（can be customized）		
Waterproof	IP65		
Humidity Range	4-100%(no condensation)		
Cooling Method	Natural heat dissipation		
Hazardous Material Classification	9		
Shell Material	Galvanized steel+plastic		
Mounting Method	Hanging rod/wall mounting		
Warranty	2years		
Certificate	UN38.3/MSDS/CE/ROHS/ISO/TUV		
Size	64cm* 55cm*10.5cm	83cm*56cm*11cm	82.5cm*69cm*10.5cm
Weight	10kg	13kg	15kg

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