



Solis S6 Advanced Power Hybrid Inverter

S6-EH1P(9.9-16)K-L

Speaker:

Ginlong Technologies Co., Ltd.

7/1/2024



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Company Profile



Solis - Global Manufacturer of Solar & Energy Storage Solutions

Developing technology
to power the world with clean energy



NO.

Ginlong(Solis) ranked the NO.3 PV inverter
supplier globally in shipment

Company Profile



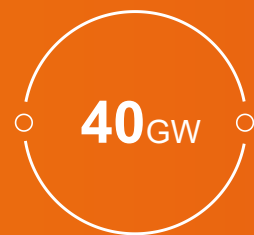
Global Employees



Total Assets



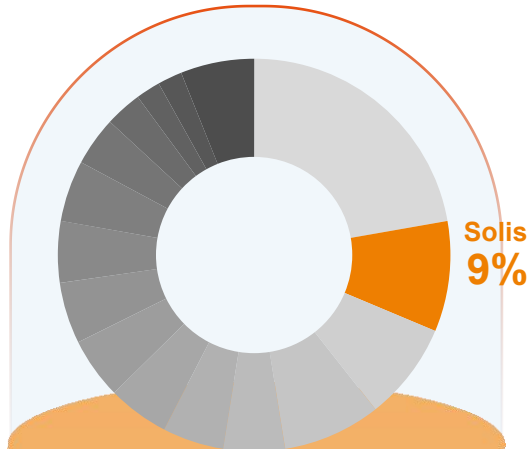
R&D Team



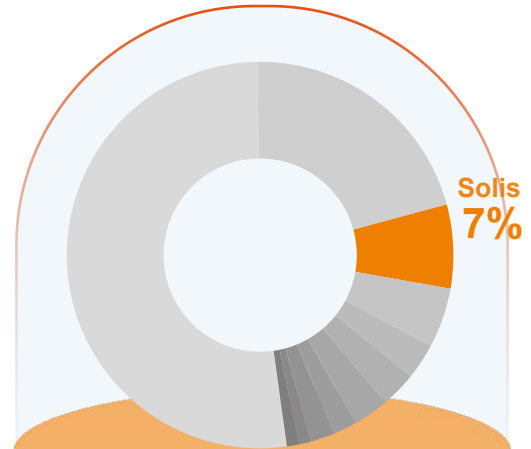
Capacity



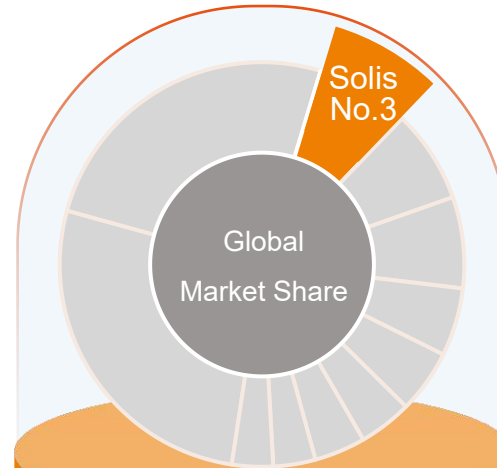
Global Installation



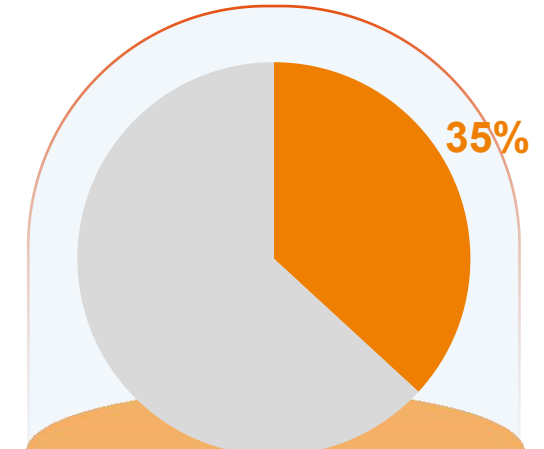
No. 2 Global Single-Phase Inverter market shares, full year 2019(MWac)



No. 3 Global Three-Phase Inverter market shares, full year 2020(MWac)



NO.3 Global market shares in 2021



NO.1 Chinese Residential market shares in 2021

Source : Wood Mackenzie / IHS /Online Data

Sales increased up to **882.98** million USD dollars in 2022 ,
Growth v's the same period last year of **77.8%**.

Revenue



Sales are booming



Shipments

— MW



Leader in string inverter technology
reaching 60GW global shipment milestone



○ Manufacturing Base Introduction

Equipped with fully automated and real-time collection production lines for logistics, production and testing. This includes SMT lines, DIP special-shaped plug-in lines, triple anti-coating lines, automatic assembly lines, aging inspection and packaging integrated production lines. The implementation of intelligent material transport system, AGV, automatic manipulator palletizing system, three-dimensional warehouse and other logistics engineering construction, enables automatic material in and out of storage, production line pulling material distribution and visual management.

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Product Introduction



Solis S6 Advanced Power Hybrid Inverter

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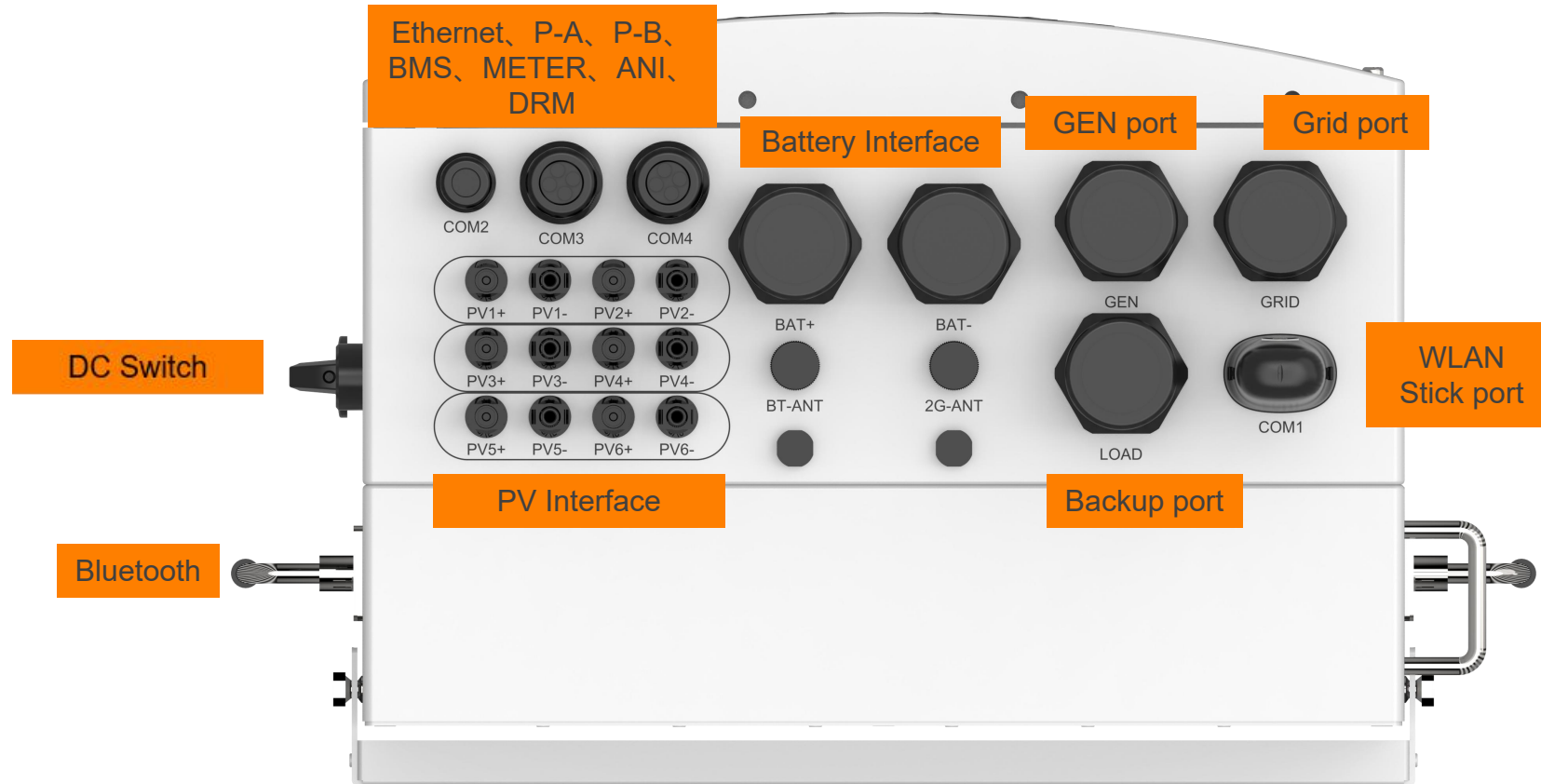
9.9K/12K/14K/16K



Bottom & Communication Interface



S6-EH1P(3-8)K-PLUS



◆ For details of the interface definition, see the product manual.

Product Features of S6 Advanced Power Hybrid Inverter

- Adapt to a variety of battery brands (both lithium & lead acid) , capacity selection is more flexible ;
- 10 second 200% surge power backup overload capability, switching < 4 ms ;
- Support Max 6 pcs in parallel, up to 96KW;
- Battery reserve function to meet the backup demand when power outage;
- Support 2 backup function , realize intelligent power plan when the grid is power outage.
- Support smart load function, self-use rate of the system can reach 98 %.
- support the hybrid power supply system of PV、 Battery and Genset, which can realize 24-hour uninterrupted power supply.
- Higher weak grid stability ensures the power supply stability of microgrid system.







03

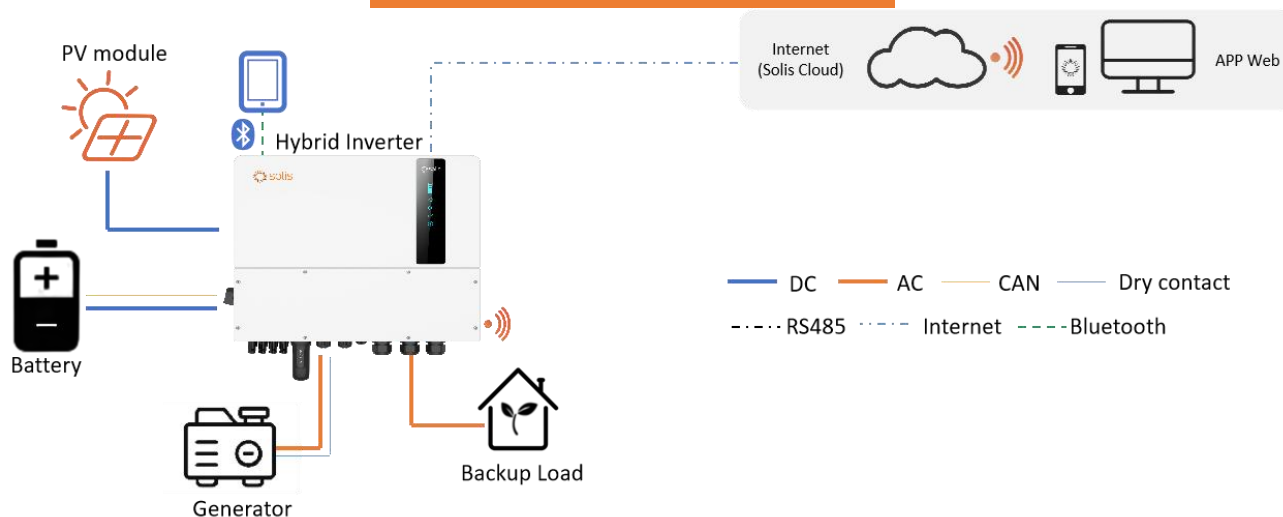
System Specification



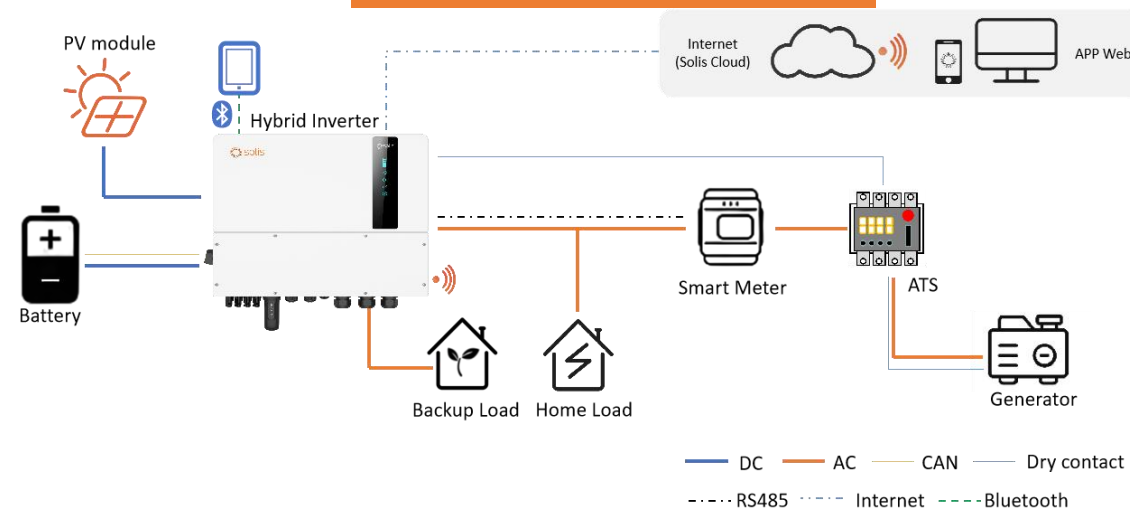
System with Generator



Generator on Generator port



Generator on Grid side



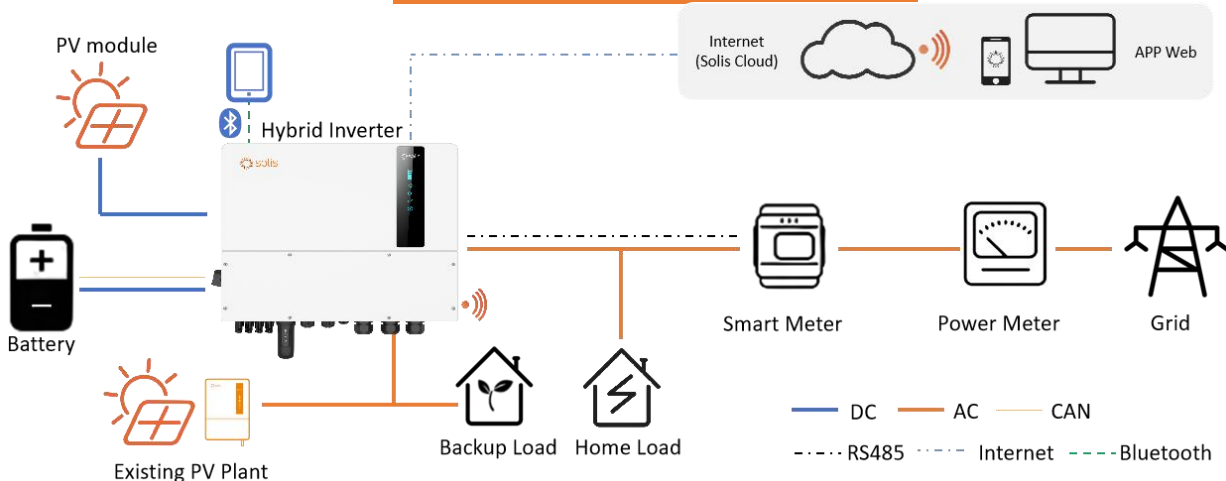
NOTE:

- In single system, Diesel Generator can be connected via both AC-Gen port and ATS. If via AC-Gen port, it will only supply power to the Backup load; if it is necessary to supply power to the grid side, it is recommended that the generator be connected through ATS;
- In parallel-system scenarios, connecting DG via ATS is recommended;
- When the generator is connected to the system, it is necessary to correctly select the location of the generator on the APP to avoid system failure or generator damage;

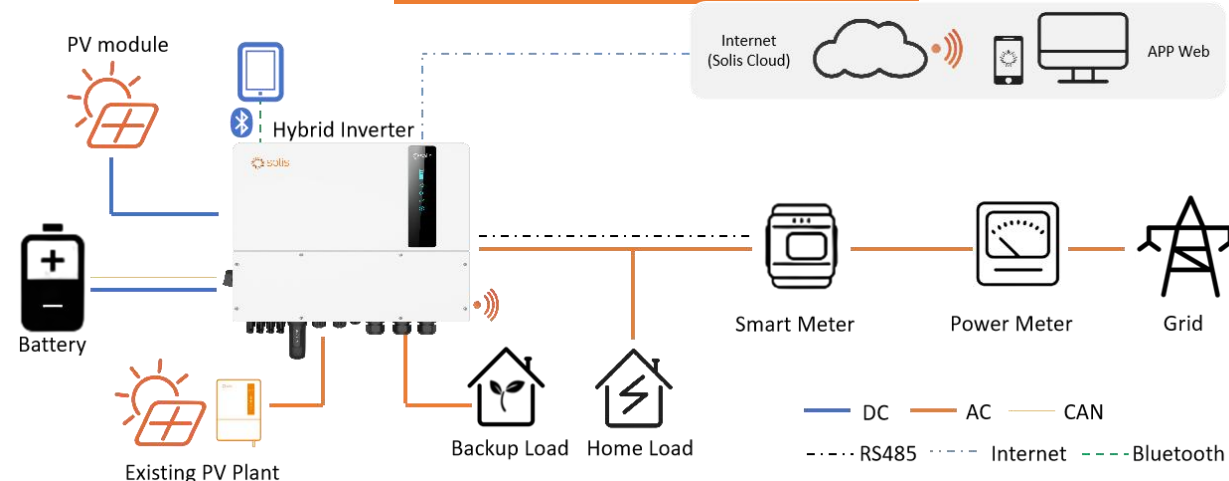
System with Grid-tied Inverter



Grid-tied Inverter on Backup port



Grid-tied Inverter on Gen port



NOTE:

Grid-tied inverter can be connected via AC-Gen port and AC-Backup port.

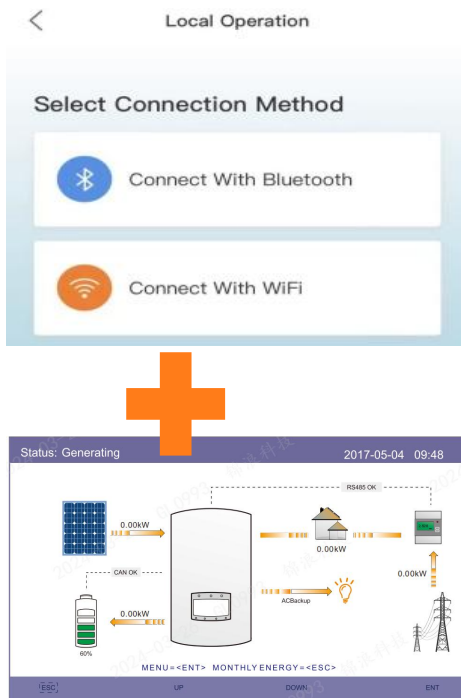
- With existing PV Plant connected to the system, it is recommended that : Grid-tied inverter power < rated AC power of S6 inverter ;
- In on-grid scenario, when the third-party grid-connected inverter is connected, the system cannot control the output power of the third-party grid-tied inverter, so Feed-in limitation cannot be realized ;
- When connected in off-grid scenario, the third-party grid-tied inverter needs to set the correct grid code, and has the function of over-frequency load shedding & under-frequency load rising, so that the system can adjust the frequency to control the output power of the grid-tied inverter.
- The solis grid-connected inverter can be connected with Hybrid inverter in parallel . In order to realize Feed-in limitation, it is necessary to add EPM or S3-Logger devices.
- When the system is connected to the generator, it cannot be connected to the grid-tied inverter, because of a risk of damaging the generator ;

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Product Features & Scenarios



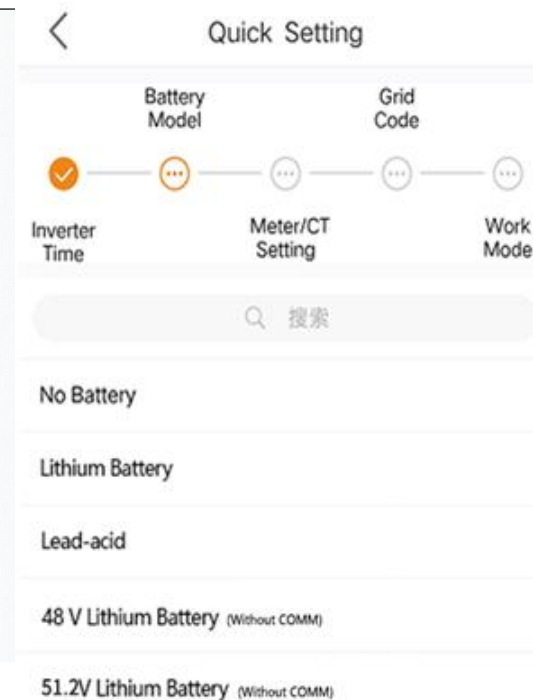
7. Support LCD+ Bluetooth, and provide 1V1 dedicated Pad, make the interaction more friendly.



LCD + Bluetooth near-end connection. O&M personnel can choose a more suitable interaction mode according to their own conditions, which is easy to control and operate the inverter in any scenarios.

In addition, the 1V1 dedicated Pad is provided. For users who cannot use smart phones, or do not want to add unfamiliar mobile apps, and the inverters are installed in special locations, the Pad can be used to set and check the running status.

9. Compatible with multiple brands of lithium battery models, and add quick setting options, Simpler application.



DIY Battery pack

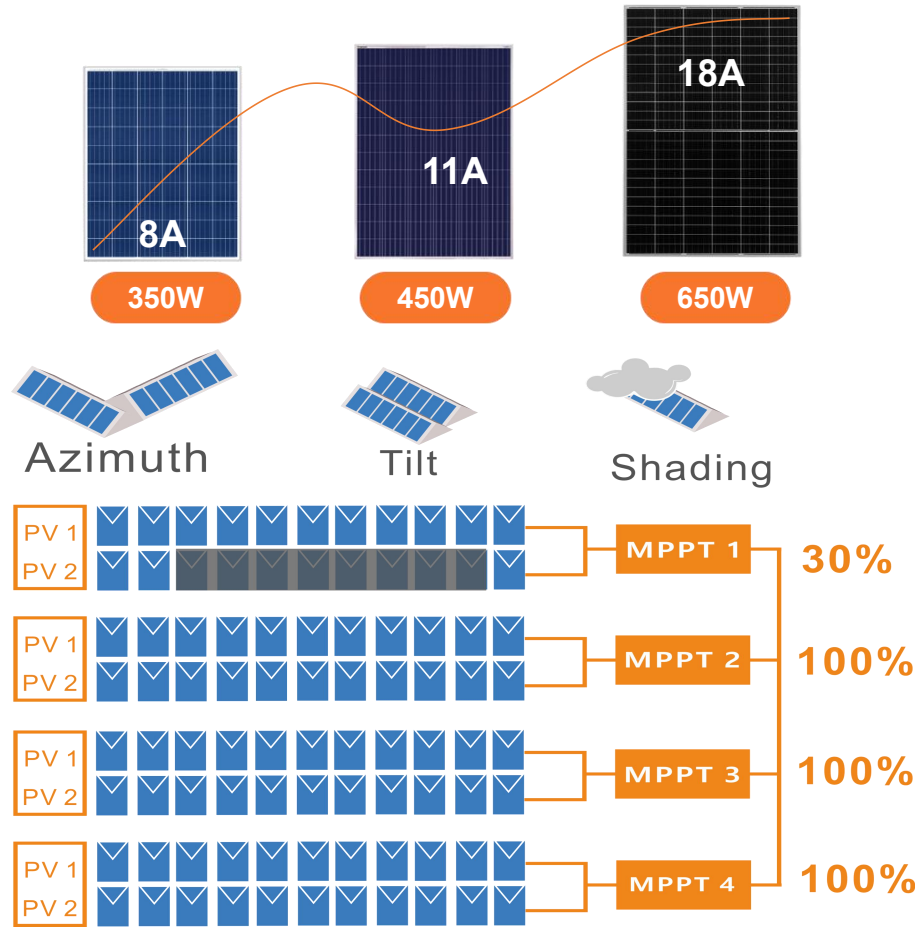
Unbranded battery

Without COM battery

Added universal lithium battery options, including 48V and 51.2V without COM lithium batteries, optimizing customer battery matching and usage issues, simplifying customer setup.



Higher power generation



3 MPPTs, No fear of multi-orientation and occlusion, improve power generation



Up to 20A input current, applicable to high current PV panels

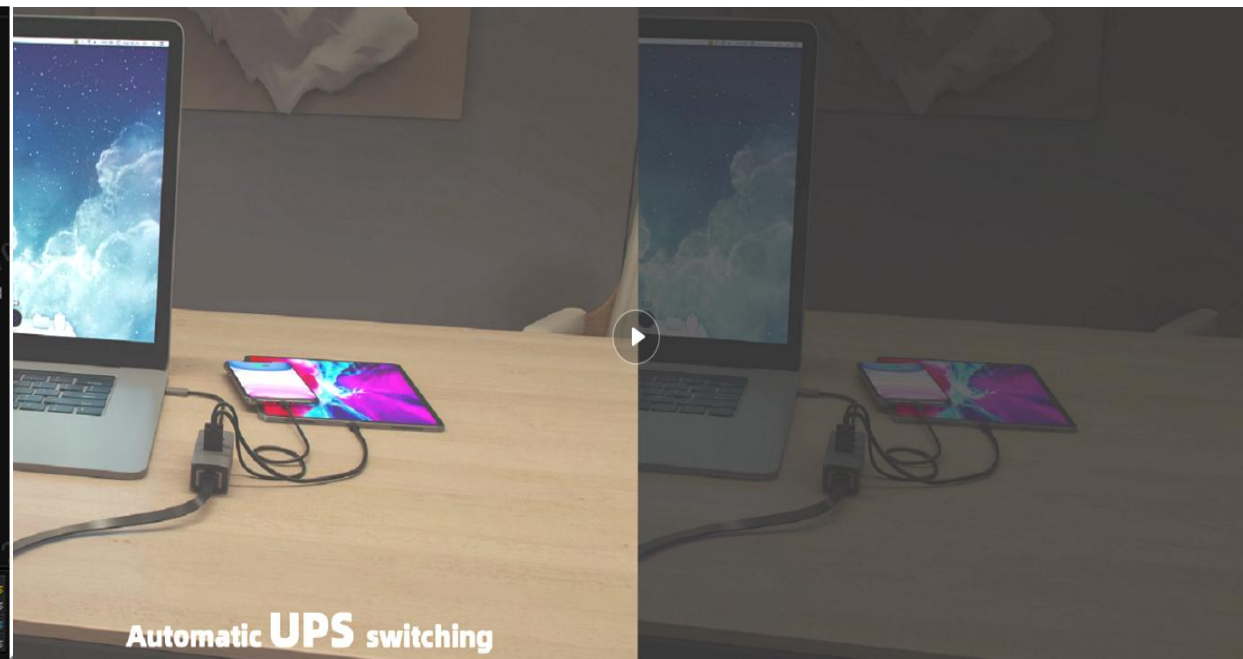


Support multi-peak scanning, superior power generation

Product Advantage - Strong Power Supply Stability



Automatic UPS switching, switching < 4ms

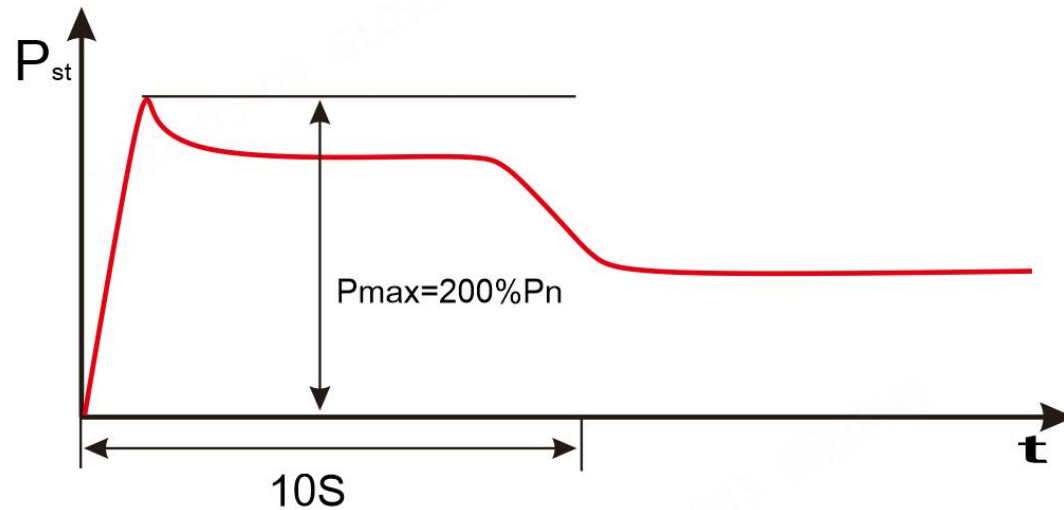


- CH1: Back up voltage waveform
- CH2: Back up current waveform
- CH4: Grid current waveform

Product Advantage - Strong Power Supply Stability



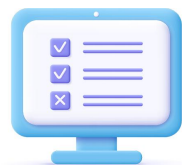
10 second 200% surge power backup overload capability



This function has stronger energy supply stability when the inductive load is switched. It will not cause the sudden start of large load, resulting in the sudden drop of system supply voltage

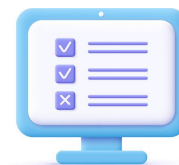
6. IP66 protection level

优于友商



IP66

VS



IP65

Dustproof capability:

Completely dust-proof, no particles enter

Waterproof capability:

Protect against strong water column impact,

twice the waterproof capacity of IPx5

Absolute advantage:

Dust-proof, IP66 can withstand strong currents, use is wider in the environment of strong convective weather like typhoon, rainstorm frequent have stronger adaptability

Dustproof capability:

Completely dust-proof, no particles enter

Waterproof capability:

Protect against low pressure water column impact