

SYP 6K-S

Solar storage inverter



Efficiency

- Advanced MPPT technology with up to 99.9% efficiency
- Dual MPPT up to 18A+18A for high power PV module

Safety

- 360 degrees of security from hardware to software
- IEC safety approvals

All in one

- Up to 100A hybrid charging current

Reliable

- Outputs high-quality pure sine wave AC power
- Up to 6 units in parallel connection

User-Friendly

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

Intelligent

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

SYP



House



Farm



Telecom



Countryside



Island



Pasture

Application scenario



Product Parameters

Model	SYP 6K-S
Inverter Output	
Rated Output Power	6,200 W
Max. Peak Power	12,400VA
Rated Output Voltage	230Vac (L/N/PE single-phase)
Load Capacity Of Motors	5HP
Rated AC Frequency	50Hz/60Hz
Waveform	Pure sine wave
Switch Time	10ms (typical)
Num. Of Parallel	1-6 units (single/three phase)
Battery	
Battery Type	Li-ion /Lead-acid / User-define
Rated Battery Voltage	48Vdc (Minimum starting voltage 44V)
Voltage Range	40~58Vdc
PV charging current range	0~100A
AC charging current range	0~80A
Max. Hybrid Charging Current	100A
PV Input	
Num. Of MPPT Trackers	2
Max. PV Array Power	4,500W+4,500W
Max. Input Current	18A+18A
Max. Voltage Of Open Circuit	550Vdc+550Vdc
Mppt Voltage Range	120~480Vdc
Mains /generator Input	
Input Voltage Range	(170Vac~280Vac) ±2% / (90Vac-280Vac) ±2%
Frequency Range	50/60Hz
Bypass Overload Current	40A
General	
Dimensions	510*350*133mm
Weight	12.45kg
Protection Degree	IP20, indoor only
Operating Temperature Range	-10°C~55°C
Noise	≤60dB
Cooling Method	Forced air cooling with adjustable air speed
Warranty	24 months
Communication	
Embedded Interfaces	RS485 / USB / Dry contact
External Modules (Optional)	Wi-Fi