



SYP 5K-U

Solar storage inverter



Efficiency

- Advanced MPPT technology with up to 99.9% efficiency
- Up to 22A PV input current for high power PV module

Safety

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

All in one

- Up to 100A 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

Application scenario



House



Farm



Telecom



Countryside



Island



Pasture

MODEL	SYP 5K-U	CAN BE SET
INVERTER OUTPUT		
Rated Output Power	5,000W	
Max.Peak Power	10,000VA	
Rated Output Voltage	120Vac (L/N/PE single-phase)	✓
Load Capacity of Motors	4HP	
Rated AC Frequency	50/60Hz	✓
Waveform	Pure sine wave	
Switch Time	10ms (typical)	
Parallel Capacity	1-6 units (single/split/three phase)	
BATTERY		
Battery Type	Li-ion / Lead-acid / User-define	✓
Rated Battery Voltage	48Vdc	
Voltage Range	40~60Vdc	✓
Max.MPPT Charging Current	100A	✓
Max.Mains/Generator Charging Current	40A	✓
Max.Hybrid Charging Current	100A	✓
PV INPUT		
Num. of MPPT	1	
Max.PV array power	5,500W	
Max.input current	22A	
Max.Voltage of Open Circuit	500Vdc	
MPPT Voltage Range	120~450Vdc	
MAINS / GENERATOR INPUT		
Input Voltage Range	90~140Vac	✓
Frequency Range	50/60Hz	
Bypass Overload Current	63A	
EFFICIENCY		
MPPT Tracking Efficiency	99.9%	
Max. Battery Inverter Efficiency	92%	
GENERAL		
Dimensions	446.9*350*133mm (1.47*1.15*0.44ft)	
Weight	14kg (30.86lb)	
Protection Degree	IP20, indoor only	
Operating Temperature Range	-10~55°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 / GPRS	✓
CERTIFICATION		
Safety	CE(IEC 62109-1/2)	
EMC	EN61000	
RoHS	Yes	