



SP-12K

Solar storage inverter

Efficiency

- Advanced MPPT with up to 99.9% efficiency
- Up to 22A*2 PV input current

Safety

- With software and hardware security protection
- Multiple safety approvals

All-in-One

- Up to 200A charging current
- Supports Li-ion battery BMS communication

Reliable

- Output high-quality pure sine wave AC power
- With IP65 protection degree

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 | SP - 8K | SP - 10K | SP - 12K | Can Be Set |
|----------------------------------|--|----------|---------------|------------|
| INVERTER OUTPUT | | | | |
| Rated Output Power | 8,800W | 10,000W | 12,000W | |
| Max. Peak Power | 17,600VA | 20,000VA | 24,000VA | |
| Rated Output Voltage | 120/240Vac, single-phase / split-phase / three-phase(parallel) | | | √ |
| Load Capacity of Motors | 5HP | 6HP | | |
| Rated AC Frequency | 50/60Hz | | | |
| BATTERY | | | | |
| Battery Type | Lead-acid / Li-ion / User-defined | | | √ |
| Rated Battery Voltage | 40 ~ 60V | | | |
| Max. PV Charging Current | 200A | | | √ |
| Max. Mains Charging Current | 120A | | | √ |
| Max. Alternator Charging Current | 60A | | | |
| Max. Hybrid Charging Current | 200A | | | √ |
| PV INPUT | | | | |
| Num. of MPPT | 2 | | | |
| Max. PV Array Power | 5,500W+5,500W | | 6,600W+6,600W | |
| Max. Input Current | 22A+22A | | | |
| Max. Open-circuit Voltage | 500Vdc+500Vdc | | | |
| MPPT Operating Voltage Range | 125 ~ 425Vdc | | | |
| MAINS / GENERATOR INPUT | | | | |
| Input Voltage Range | 90 ~ 140Vac | | | √ |
| Frequency Range | 50/60Hz | | | |
| GENERAL | | | | |
| Num. of Parallel | 1 ~ 6 units | | | |
| Dimensions | 750*440*240mm (2.46*1.44*0.79ft) | | | |
| Weight | 42kg (92.59lb) | | | |
| Protection Degree | IP65 | | | |
| Operating Temperature Range | -25~60°C, >45°C derated | | | |
| Cooling Method | Intelligent air-cooling | | | |
| Warranty | 10 years | | | |
| COMMUNICATION | | | | |
| Embedded Interfaces | RS485 / CAN / USB / Dry contact | | | √ |
| External Modules (optional) | Wi-Fi / GPRS | | | √ |
| CERTIFICATION | | | | |
| US Version | UL 1741: 2021, CSA C22.2#107.1:2016, CSA C22.2#330:2017 IEEE1547:2018, IEEE1547.1:2020, HECO SRD.IEEE-1547.1:2020 | | | |