



# SPI Series

Solar storage inverter

## Efficiency

- Advanced MPPT technology with up to 99.9% efficiency
- Up to 22+22A PV input current

## Safety

- Comprehensive security from hardware to software
- Multiple safety certifications

## All in one

- Up to 260A charging current
- Support Li-ion battery BMS communication

## Reliable

- Outputs high quality pure sine wave AC power
- Up to 72kW load power for most household needs

## 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

### Application scenario

House

Farm

Telecom

Countryside

Island

Pasture

| MODEL SPI-8K-H3P SPI-10K-H3P SPI-12K-H3P  |                                               |               |               |   |
|-------------------------------------------|-----------------------------------------------|---------------|---------------|---|
| INVERTER OUTPUT                           |                                               |               |               |   |
| Rated Output Power                        | 8,000W                                        | 10,000W       | 12,000W       |   |
| Max. Peak Power                           | 16,000W                                       | 20,000W       | 24,000W       |   |
| Rated Output Voltage                      | 230/400Vac, three-phase                       |               |               | ✓ |
| Capacity of Motor Load                    | 5HP                                           | 6HP           | 6HP           |   |
| Rated Frequency                           | 50/60Hz                                       |               |               | ✓ |
| Output Waveform                           | pure sine wave                                |               |               |   |
| Switching Time                            | 10ms (typical)                                |               |               |   |
| BATTERY                                   |                                               |               |               |   |
| Battery Types                             | Li-ion / Lead-Acid / User Defined             |               |               | ✓ |
| Rated Battery Voltage                     | 48Vdc                                         |               |               |   |
| Voltage Range                             | 40~60Vdc                                      |               |               | ✓ |
| Max. PV Charging Current                  | 180A                                          | 220A          | 260A          | ✓ |
| Max. Utility / Generator Charging Current | 100A                                          | 120A          | 120A          | ✓ |
| Max. Hybrid Charging Current              | 180A                                          | 220A          | 260A          | ✓ |
| PV INPUT                                  |                                               |               |               |   |
| No. of MPPT                               | 2                                             |               |               |   |
| Max. Input Power                          | 6,000W/6,000W                                 | 7,500W/7,500W | 9,000W/9,000W |   |
| Max. Input Current                        | 22A/22A                                       |               |               |   |
| Max. Open-circuit Voltage                 | 800Vdc/800Vdc                                 |               |               |   |
| MPPT Operating Voltage Range              | 200~650Vdc/200~650Vdc                         |               |               |   |
| UTILITY / GENERATOR INPUT                 |                                               |               |               |   |
| Input Voltage Range                       | phase voltage 170~280V, line voltage 305~485V |               |               |   |
| Input Frequency Range                     | 50/60Hz                                       |               |               |   |
| Bypass Overload Current                   | 63A                                           |               |               |   |
| EFFICIENCY                                |                                               |               |               |   |
| MPPT Tracking Efficiency                  | 99.9%                                         |               |               |   |
| Max. Battery Inverter Efficiency          | ≥92%                                          |               |               |   |
| European Efficiency                       | 97.2%                                         | 97.5%         | 97.5%         |   |
| GENERAL                                   |                                               |               |               |   |
| Dimensions                                | 620*445*130mm                                 |               |               |   |
| Weight                                    | 27kg                                          |               |               |   |
| Protection Degree                         | IP20, indoor only                             |               |               |   |
| Ambient Temp                              | -10~55°C, >45°C derated                       |               |               |   |
| Noise                                     | <60dB                                         |               |               |   |
| Cooling Method                            | air cooling                                   |               |               |   |
| Warranty                                  | 18 months                                     |               |               |   |
| COMMUNICATION                             |                                               |               |               |   |
| Internal Interface                        | RS485 / CAN / USB / Dry contact               |               |               | ✓ |
| External Module (optional)                | Wi-Fi / GPRS                                  |               |               | ✓ |
| CERTIFICATION                             |                                               |               |               |   |
| Safety                                    | IEC62109-1, IEC62109-2                        |               |               |   |
| EMC                                       | EN61000-6-1,EN61000-6-3,FCC15 classB          |               |               |   |
| RoHS                                      | Yes                                           |               |               |   |