

# Off Grid Solar Inverter

## High Frequency **SX-SPI-S SERIES**



- **8KW/10KW**
- **220V**
- **48V**

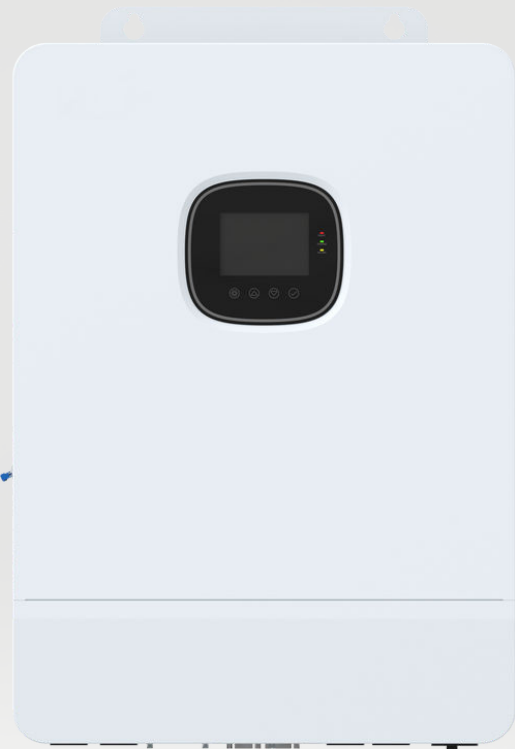
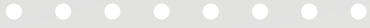
SX-SPI-S Series is a combination of high frequency inverter, AC charger and MPPT solar controller

### Features :

- Advanced MPPT technology with up to 99.9% efficiency
- Up to 22+22A PV input current
- Comprehensive security from hardware to software
- Multiple safety approvals
- Up to 200A charging current
- Support Li-ion battery BMS communication
- Outputs high quality pure sine wave AC power
- Up to 10kW output power
- Industrial design with a modern aesthetic look
- Easy to install and simple to use
- Exclusive Li-ion battery BMS dual activation
- Time-slot function to save cost with peak-valley



# More Image



# Application

## Designed for Areas with:

Unstable grid power, need backup power .

**Main concern is sustainable power supply .**

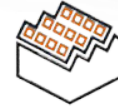


Ground-mounted solar power system

## Designed for Areas with :

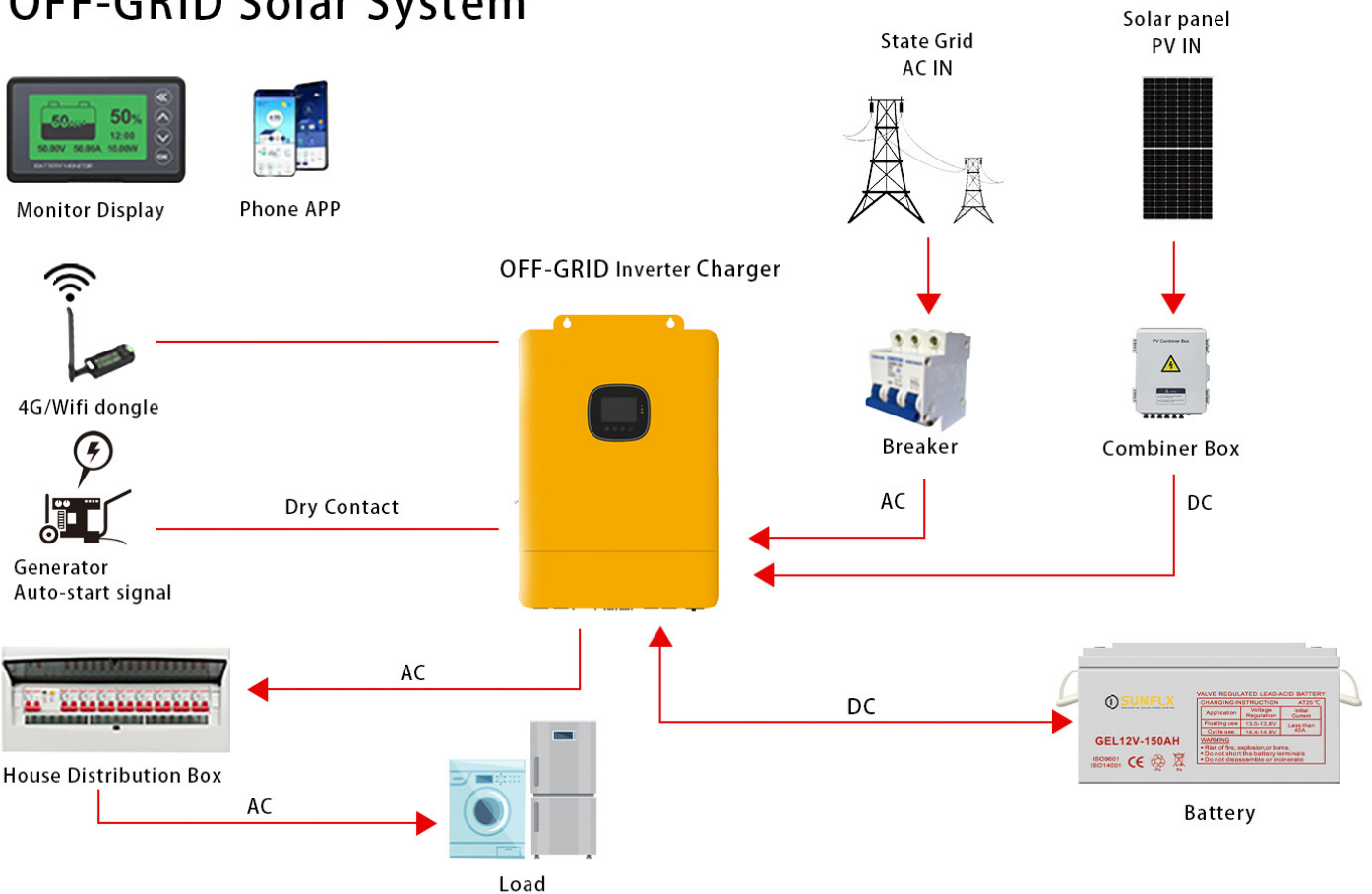
Stable grid power, but electricity price is expensive .

**Main concern is reducing electricity bills.**



Rooftop system on residential buildings

## OFF-GRID Solar System



# Data sheet

| MODEL                                 | SPI-8K-S                                 | SPI-10K-S | Can Be Set |
|---------------------------------------|--|-----------|------------|
| <b>INVERTER OUTPUT</b>                |  |           |            |
| Rated Output Power                    | 8,000W                                   | 10,000W   |            |
| Max. Peak Power                       | 16,000W                                  | 20,000W   |            |
| Rated Output Voltage                  | 230Vac, single phase                     |           | ✓          |
| Load Capacity of Motors               | 5HP                                      | 6HP       |            |
| Rated AC Frequency                    | 50/60Hz                                  |           | ✓          |
| Waveform                              | Pure sine wave                           |           |            |
| Switch Time                           | 10ms (typical)                           |           |            |
| <b>BATTERY</b>                        |  |           |            |
| Battery Type                          | Li-ion / Lead-acid / User-defined        |           | ✓          |
| Rated Battery Voltage                 | 48Vdc                                    |           |            |
| Battery Voltage Range                 | 40~60Vdc                                 |           | ✓          |
| Max. MPPT Charging Current            | 180A                                     | 200A      | ✓          |
| Max. Mains/Generator Charging Current | 100A                                     | 120A      | ✓          |
| Max. Hybrid Charging Current          | 180A                                     | 200A      | ✓          |
| <b>PV INPUT</b>                       |  |           |            |
| Num. of MPPT                          | 2  |           |            |
| Max. PV Array Power                   | 5,500W + 5,500W                          |           |            |
| Max. Input Current                    | 22A + 22A                                |           |            |
| Max. Open Circuit Voltage             | 500Vdc + 500Vdc                          |           |            |
| MPPT Voltage Range                    | 125~425Vdc                               |           |            |
| <b>UTILITY / GENERATOR INPUT</b>      |  |           |            |
| Input Voltage Range                   | 90~275Vac                                |           | ✓          |
| Frequency Range                       | 50/60Hz                                  |           |            |
| Bypass Overload Current               | 63A                                      |           |            |
| <b>EFFICIENCY</b>                     |  |           |            |
| MPPT Tracking Efficiency              | 99.9%                                    |           |            |
| Max. Battery Inverter Efficiency      | 92%                                      |           |            |
| <b>GENERAL</b>                        |  |           |            |
| Dimensions                            | 620*445*130mm                            |           |            |
| Weight                                | 27kg                                     |           |            |
| Protection Degree                     | IP20, indoor only                        |           |            |
| Operating Temperature Range           | -10~55°C, >45°C derated                  |           |            |
| Noise                                 | <60dB                                    |           |            |
| Cooling Method                        | Internal fan                             |           |            |
| Warranty                              | 18 Months                                |           |            |
| <b>COMMUNICATION</b>                  |  |           |            |
| Embedded Interfaces                   | RS485 / CAN / USB / Dry contact          |           | ✓          |
| External Modules (Optional)           | Wi-Fi / GPRS                             |           | ✓          |
| <b>CERTIFICATION</b>                  |  |           |            |
| Safety                                | IEC62109-1, IEC62109-2, UL1741           |           |            |
| EMC                                   | EN61000-6-1, EN61000-6-3, FCC 15 class B |           |            |
| RoHS                                  | Yes                                      |           |            |