



Central Inverter

SPI Series (10~630kW)

- » High efficiency up to 99%
- » High reliability with DSP control
- » High adaptability with output isolation transformer

High Reliability:

- Proprietary sharing air duct design
- Imported high quality component such as IGBT, Fans etc.
- Mains control board placed in metal box, which avoids the interference of dust and radiation

Green Saving:

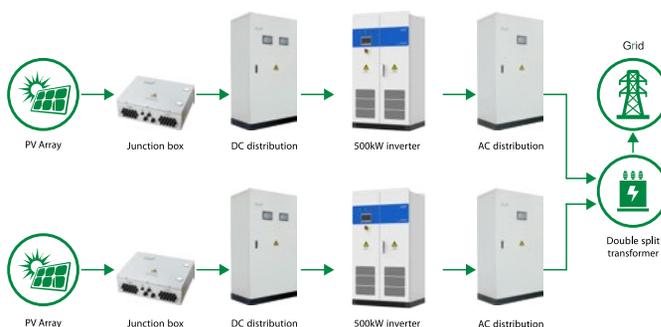
- Peak efficiency up to 99%
- MPPT efficiency more than 99%

Intelligent Management:

- Active and reactive power scheduling
- Power factor 0.9 lead~ 0.9 lags adjustable continuously

Flexible Design:

- Convenient wiring compartment and cable connection
- Compact design, light weight, high power density, easy to install



Value-added Service:

- SPI monitor software
- SPB series Junction box
- IP grade upgraded
- Anti reflux controller
- Customer design air duct for different room

Technical Specification:

| Items | SPI10K-A | SPI20K-A | SPI30K-A | SPI50K-A | SPI100K-A | SPI250K-A | SPI500K-B | SPI630K-B |
|--|--|----------|----------|--------------|-----------|-----------------|---------------|---------------|
| Input | | | | | | | | |
| Max. PV Array Power (kW) | 11 | 22 | 33 | 55 | 110 | 275 | 550 | 700 |
| Max. PV Array Open Circuit Voltage (VDC) | 880 | | | | | 1000 | | |
| Max. DC Current (A) | 24.5 | 49 | 94 | 125 | 245 | 600 | 1200 | 1400 |
| MPPT Range (V) | 450~850 | | | | | 460~850 | | 500~850 |
| Output | | | | | | | | |
| Rated Output Power (kW) | 10 | 20 | 30 | 50 | 100 | 250 | 500 | 630 |
| Rated Grid Voltage (V) | 380 | | | | | | 315 | |
| Rated AC Frequency (Hz) | 50/60Hz | | | | | | | |
| Total harmonic distortion THD | <2.6% | <2.5% | <2.4% | <2.6% | <2.4% | <3% | <3% | <3% |
| Power factor | >0.99(@full load, adjustable) | | | | | | | |
| Efficiency | | | | | | | | |
| The maximum Efficiency | 94.8% | 95.1% | 95.4% | 96.2% | 96.6% | 98.2% | 99.0% | 99.0% |
| Europe Efficiency | 94.1% | 94.6% | 94.8% | 95.7% | 96.2% | 97.8% | 98.8% | 98.8% |
| Others | | | | | | | | |
| IP Grade | IP20 | | | | | | | |
| Environment Temperature | -25°C ~ +55°C | | | | | | | |
| Humidity | 0~95%, no condensation | | | | | | | |
| Altitude | <3000m (>3000m, derating) | | | | | | | |
| Protection | DC input overvoltage, low voltage protection, over temperature protection, output overvoltage, island fault protection | | | | | | | |
| Communication Ports | RS485/Ethernet (optional) / GPRS (optional) | | | | | | | |
| Topology | Isolation Transformer | | | | | Transformerless | | |
| Dimension (WxDxH) (mm) | 600x600x1250 | | | 800x800x1800 | | 1000x800x2000 | 1100x800x2000 | 1400x800x2000 |
| Weight (kg) | 210 | 238 | 480 | 510 | 750 | 1500 | 1000 | 1200 |

- 120V/208V 277V/480V On-grid inverter for South and North American Markets are available for customization.
- Specifications are subject to change without prior notice.

Xiamen Kehua Hengsheng Co., Ltd.

Add: No. 457, Malong Road, Torch High-Tech Industrial Zone, Xiamen 361006, Fujian, P.R. China

Tel: +86-592-5160516 Fax: +86-592-5162166 Intertrade@kehua.com www.kehua.com

