

Single-Phase On-grid String Inverter

SPI3000-B2/SPI3600-B2/SPI4000-B2/SPI4600-B2/SPI5000-B2/SPI6000-B2



Product Features

High efficiency

- High-efficiency inverter topology ensures annual power generation
- Advanced control algorithms and high adaptation ability to the grid, improving the stability of power generation system

Safe and reliable

- IP65 for outdoor application
- Integrated AC/DC full lightning protection
- Aluminum alloy die-casting integrated chassis, ensure 25 years full life circle running

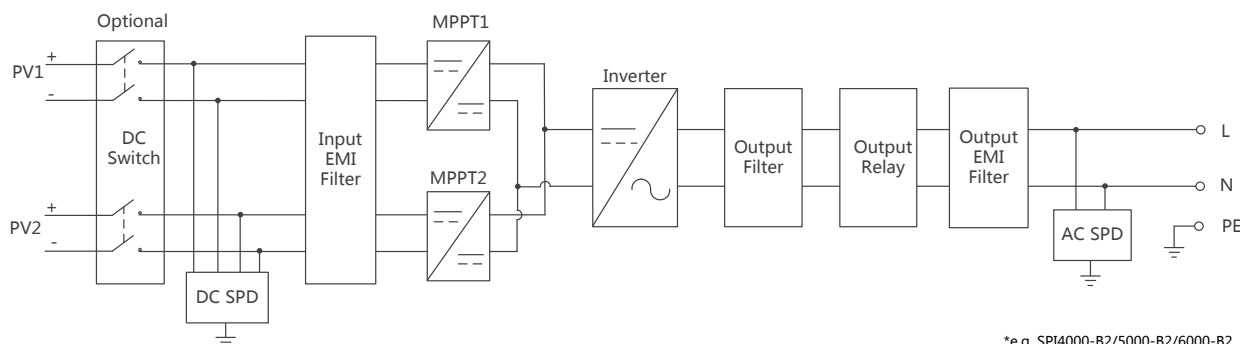
Intelligent management

- Intelligent cloud platform monitoring, realizing one-key APP real-time monitoring
- Support RS485, GPRS, WIFI and other communication methods

Green saving

- Small size, easy to install and use
- Natural cooling, ensuring low environmental noise
- Super-wide operating temperature range, adapt to extremely cold, high temperature areas

Function Diagram



*e.g. SPI4000-B2/5000-B2/6000-B2

Technical Specification

| Items | SPI3000-B2 | SPI3600-B2 | SPI4000-B2 | SPI4600-B2 | SPI5000-B2 | SPI6000-B2 |
|-----------------------------|--|-------------|------------|------------|------------|------------|
| DC Input | | | | | | |
| Max. PV input voltage | 600Vdc | | | | | |
| Rated input voltage | 360Vdc | | | | | |
| Max. PV input current | 11A | 22A (2×11A) | | | | |
| No. of MPPTs | 1 | 2 | | | | |
| No.of PV strings per MPPT | 1 | 1/1 | | | | |
| MPPT voltage range | 100Vdc~550Vdc | | | | | |
| Starting voltage | 120Vdc | | | | | |
| AC Output | | | | | | |
| Rated AC output power | 3.0kW | 3.6kW | 4.0kW | 4.6kW | 5.0kW | 6.0kW |
| Max. output power | 3.3kW | 3.96kW | 4.4kW | 5.06kW | 5.5kW | 6.0kW |
| Rated AC output voltage | 220V/230Vac | | | | | |
| Rated output current | 13.0A | 15.7A | 17.4A | 20.0A | 21.7A | 26.0A |
| Max. output current | 14.3A | 17.2 A | 19.1A | 22.0 A | 23.9 A | 26.0 A |
| Rated grid frequency | 50/60Hz | | | | | |
| Grid frequency range | 45~55Hz/55~65Hz | | | | | |
| Power factor | >0.99 full load | | | | | |
| Adjustable power factor | 0.8(leading)~0.8(lagging) | | | | | |
| THDI | <3% (nominal power) | | | | | |
| Efficiency | | | | | | |
| Max. efficiency | 98.10% | 98.30% | | | | |
| European efficiency | 97.70% | 97.90% | | | | |
| Protection | | | | | | |
| Anti-islanding | Yes | | | | | |
| DC reversed connection | Yes | | | | | |
| AC short circuit protection | Yes | | | | | |
| Temperature protection | Yes | | | | | |
| Surge protection | Yes | | | | | |
| PV fault detect | Yes | | | | | |
| DC switch | Yes | | | | | |
| General | | | | | | |
| Dimensions (W×H×D) | 360×420×125mm | | | | | |
| Weight | 12.6kg | | | | | |
| IP grade | IP65 | | | | | |
| Noise level | ≤25dB | | | | | |
| Self-consumption at night | <1W | | | | | |
| Cooling type | Natural cooling | | | | | |
| Altitude | 4000m (>2000m derating) | | | | | |
| Operating temperature | -40°C~60°C (>45°C derating) | | | | | |
| Operating humidity | 0~100% | | | | | |
| Display | LCD+LED | | | | | |
| Communication | RS485/WiFi (optional)/GPRS (optional)/DRM (Australia) | | | | | |
| DC terminal | H4 Terminal | | | | | |
| AC terminal | Plug and play connector | | | | | |
| Installation method | Wall-mounted | | | | | |
| Standard | NB/T32004,-2018, EN62109-1, EN62109-2, AS/NZS4777.2:2015, EN 61000-6-2, EN 61000-6-3, IEC 62116:2014,IEC 61727:2004,IEC 60068-2-1:2007, IEC 60068-2-2:2007, IEC60068-2-14:2009 | | | | | |

■ Specifications are subject to change without prior notice.

Kehua Hengsheng Co., Ltd.

Add: No. 457, Malong Road, Torch High-Tech Industrial Zone, Xiamen Fujian China
Tel: +86-592-5160516 Fax: +86-592-5162166 www.kehua.com

