

# Single-phase On-grid String Inverter

SPI7000~10000-B X2 Series



## High Yield

- Multi-MPPT design with max efficiency 98.1%
- Up to 15A max current per PV string



## Safe and reliable

- IP66 protection, wide operating temperature, high environment adaptability
- Optional AFCI function, eliminates fire hazards



## Easy O&M

- Intelligent WiseSolar APP+ cloud platform provides all-round visual O&M
- Support remote intelligent upgrade service can reduce O&M cost



## Household friendly

- Small size, easy to install and use
- Natural cooling, ensuring low environmental noise



## Technical Specification

| Items                          | SPI7000-B X2   | SPI8000-B X2 | SPI9000-B X2 | SPI10000-B X2P |
|--------------------------------|--|--------------|--------------|----------------|
| <b>DC Input (PV)</b>           |  |              |              |                |
| Max. PV power (recommend)      | 11.2kWp  | 12kWp        | 13.5kWp      | 15kWp          |
| Max. PV input voltage          | 600Vdc   |              |              |                |
| Rated input voltage            | 360Vdc   |              |              |                |
| Max.current per MPPT           | 15A/15A  |              |              | 16A/16A/16A    |
| No. of MPPTs                   | 2  |              |              | 3              |
| No. of PV strings per MPPT     | 1/1  |              |              | 1/1/1          |
| MPPT voltage range             | 50~550Vdc  |              |              | 50~595Vdc      |
| Starting voltage               | 80Vdc  |              |              |                |
| DC switch                      | Yes  |              |              |                |
| <b>AC Output (On-grid)</b>     |  |              |              |                |
| Rated AC output power          | 7.0kW  | 8.0kW        | 9.0kW        | 10.0kW         |
| Max. output power              | 7.7kVA   | 8.8kVA       | 9.0kVA       | 10.0kVA        |
| Rated AC output voltage        | 220Vac/230Vac  |              |              |                |
| Rated output current           | 30.4A  | 34.7A        | 39.1A        | 43.5A          |
| Max. output current            | 33.5A  | 38.3A        | 39.1A        | 43.5A          |
| Rated grid frequency           | 50/60Hz  |              |              |                |
| Grid frequency range           | 45~55Hz/55~65Hz  |              |              |                |
| Power factor                   | >0.99 (rated power)  |              |              |                |
| Adjustable power factor        | 0.8 (leading)~0.8 (lagging)  |              |              |                |
| THDi                           | <3% (rated power)  |              |              |                |
| <b>Efficiency*</b>             |  |              |              |                |
| Max. efficiency                | 98.10%   |              |              |                |
| European efficiency            | 97.60%   |              |              |                |
| MPPT efficiency                | 99.90%   |              |              |                |
| <b>Function and protection</b> |  |              |              |                |
| Anti-islanding                 | Yes  |              |              |                |
| DC (PV) reversed connection    | Yes  |              |              |                |
| AC short circuit protection    | Yes  |              |              |                |
| Temperature protection         | Yes  |              |              |                |
| Surge protection               | DC Type II & AC Type III (Type II optional)                                    |              |              |                |
| AFCI function                  | Yes (optional)   |              |              |                |
| Integrated PID function        | Yes (optional)   |              |              |                |
| Zero-export function           | Yes (optional)   |              |              |                |
| <b>General</b>                 |  |              |              |                |
| Dimensions (W*H*D)             | 435*370*175mm  |              |              |                |
| Weight                         | 14kg   |              |              | 14.5kg         |
| IP grade                       | IP66   |              |              |                |
| Self-consumption at night      | <1W  |              |              |                |
| Cooling type                   | Natural cooling  |              |              |                |
| Altitude                       | 4000m (>3000m derating)  |              |              |                |
| Operating temperature          | -35°C~60°C   |              |              |                |
| Operating humidity             | 0~100%   |              |              |                |
| Display                        | LED+APP  |              |              |                |
| DC terminal                    | MC4 Terminal   |              |              |                |
| AC terminal                    | Plug and play connector  |              |              |                |
| Installation method            | Wall-mounted   |              |              |                |
| Communication                  | RS485, DRM (optional), WIFI /4G (optional)                                     |              |              |                |
| Compliance                     | EN 62109-1/2, IEC 62109-1/2, EN IEC 61000-6-1/3, IEC 62116, IEC 61727, INMETRO |              |              |                |

- \*Data under laboratory test conditions.
- Specifications are subject to change without prior notice.