

Three-phase On-grid String Inverter

SPI100K~125K-B Series

High efficiency

- Advanced three-level technology max. efficiency 98.8%
- 9/6 MPPTs design, compatible with large current / bifacial modules
- High power tracking density @ 400Vac system

Safe and reliable

- IP66 and C5 optional anti-corrosion grade, intelligent fan with IP68 protection
- AFCI protection and fire protection, proactively reduces fire risk
- Anti-PID and PID recovery function

Intelligent management

- Intelligent I-V and fault wave recording, quick failure analysis
- Smart online upgrade, easy for system maintenance
- Capacitor detection and life prediction reduce the failure risk

System optimization

- DC 2 in 1 connection enabled and compatible with AL AC cables
- PLC communication optional, save cable investment



Technical Specification

| Items | SPI100K-B | SPI110K-B | SPI125K-B |
|--------------------------------|---|-----------|-----------|
| DC Input (PV) | | | |
| Max. PV input voltage | 1100Vdc | | |
| Rated input voltage | 600Vdc | | |
| Max. PV input current | 9×30A/6×40A | | |
| No. of MPPTs | 9/6 | | |
| No. of PV strings per MPPT | 2 | | |
| MPPT voltage range | 200~1000Vdc | | |
| Starting voltage | 250Vdc | | |
| DC switch | Yes | | |
| AC Output (On-grid) | | | |
| Rated AC output power | 100kW | 110kW | 125kW |
| Max. output power | 110kVA | 121kVA | 137.5kVA |
| Rated AC output voltage | 400Vac | | |
| Rated output current | 144.3A | 158.8A | 180.4A |
| Max. output current | 158.8A | 174.7A | 198.5A |
| 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) | | |
| Efficiency | | | |
| Max. efficiency | 98.80% | | |
| European efficiency | 98.50% | | |
| MPPT efficiency | 99.90% | | |
| Function and protection | | | |
| Anti-islanding | Yes | | |
| DC (PV) reversed connection | Yes | | |
| AC short circuit protection | Yes | | |
| Temperature protection | Yes | | |
| Surge protection | DC Type II & AC Type II | | |
| AFCI function | Yes (optional) | | |
| Integrated PID function | Yes (optional) | | |
| IV curve scan and diagnosis | Yes (optional) | | |
| General | | | |
| Dimensions (W×H×D) | 1030*610*345mm | | |
| Weight | 80kg | | |
| IP grade | IP66 | | |
| Self-consumption at night | <2W | | |
| Cooling type | Intelligent forced air cooling | | |
| Altitude | 4000m (>3000m derating) | | |
| Operating temperature | -35~60°C | | |
| Relative humidity | 0~100% | | |
| Display | LED+APP | | |
| DC terminal | MC4 Terminal | | |
| AC terminal | OT Terminal | | |
| Installation method | Wall-mounted | | |
| Communication | RS485, PLC (optional), WIFI (optional)/GPRS (optional), Bluetooth | | |
| Compliance | EN 62109-1/2, IEC 62109-1/2, EN IEC 61000-6-2/4, EN IEC 61000-3-11, EN IEC 61000-3-12, IEC 60068, IEC 61683, IEC 62116, IEC 61727, CEI 0-16, EN 50549-1/2, NC RfG, EN 50530, UTE C15-712-1, DIN VDE 0126-1-1, VDE-AR-N 4110 | | |

• Specifications are subject to change without prior notice.