


## Product Features

### Higher Power Generation

- 3-level topology, Max.efficiency >99%
- Integrated PID recovery
- Ultra-wide full-load MPPT range

### Stable & Reliable

- IP65 + C5 anti-corrosion
- Liquid-air hybrid cooling
- 24h AC/DC insulation detection

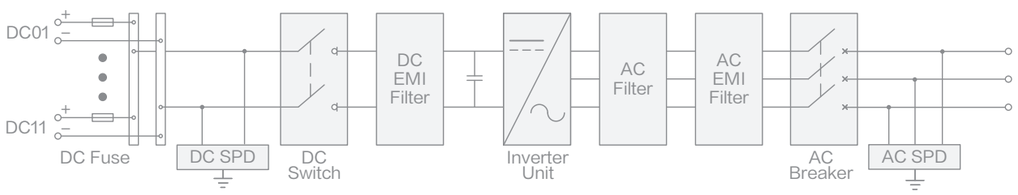
### Smart O&M

- Fault recording & component life prediction
- Modular plug-and-play design
- One-click whole-station online

### Cost-saving

- 1.4m² ultra-high power density
- Night SVG function
- Flexible 2.2~10MW sub-array combination

## Circuit Diagram




## Technical Specifications

| Product Model | SPI2200K-B-HUD | SPI2400K-B-HUD | SPI2500K-B-HUD |
|---|---|---|---|
| **DC Input ( PV )** | | | |
| Max. PV input voltage | 1500Vdc | | |
| Startup input voltage | 905Vdc | | |
| MPP voltage range | 895~1500Vdc | | |
| No. of MPP inputs | 1 | | |
| No. of DC inputs | 10~11 | | |
| Max. PV input current | 2759A | 3010A | 3135A |
| **AC Output ( On-grid )** | | | |
| Rated AC output power | 2200kW | 2400kW | 2500kW |
| Max. Apparent Power | 2420kVA | 2640kVA | 2750kVA |
| Max. Output Current | 2218A | 2419A | 2520A |
| Rated Grid Voltage | 630V | | |
| Rated Grid Frequency | 50Hz/60Hz | | |
| Power Factor | >0.99 ( Rated Power ) | | |
| PF Adjustable Range | 0.8 leading~0.8 lagging | | |
| THDi | <3%(Rated Power) | | |
| **Inverter Efficiency** | | | |
| Max. Efficiency | 99.0% | | |
| EU Efficiency | 98.7% | | |
| **Protection & Function** | | | |
| LVRT & HVRT | Yes | | |
| Fault Recording & Diagnosis | Yes | | |
| Online Upgrade | Yes | | |
| PID Recovery | Yes | | |
| Night SVG | Yes | | |
| **Basic Parameters** | | | |
| Dimensions (W×H×D) | 1000×2450×1400mm | | |
| Weight | 1670kg | | |
| Protection Grade | IP65 | | |
| Cooling Method | Intelligent Liquid-air Hybrid Cooling | | |
| Max. Operating Altitude | 2000m ( >2000m Customized ) | | |
| Operating Temperature | -35℃ ~60℃ | | |
| Operating Humidity | 0~100% (Non-condensing) | | |
| Display | LED Indicator，WiFi+Mobile APP | | |
| Communication | Ethernet/RS485 | | |
| Compliant Standards | NB/T32004-2018,GB/T19964-2024，IEC 62109, IEC 61727, IEC 62116, IEC 60068, IEC 61683 | | |

■ Specifications are subject to change without prior notice