

## Features

### High-efficiency

- Advanced three-level technology max. efficiency 99.02%
- 12 MPPT design, Compatible with bifacial PV panel
- Optional anti-PID function

### Safe and Reliable

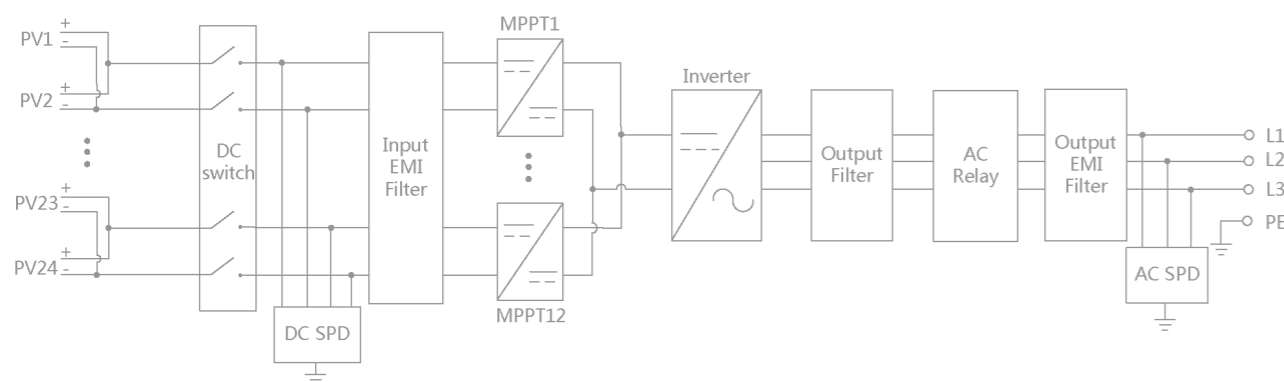
- IP66 and C5 anti-corrosion grade, intelligent fan with IP68 protection
- Fuse free design, every 2 strings with 1 MPPT
- Built-in AC / DC SPD protection

### System Optimization

- DC 2 in 1 connection enabled and compatible with AI AC cables
- Support PLC communication, save cable investment
- Support night SVG and quick response

### 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



## Technical Specifications

Items	SPI250K-B-H
<b>DC Input</b>	
Max. PV input voltage	1500Vdc
Max. PV input current	312A (26A × 12)
No. of MPPTs	12
No. of PV strings per MPPT	2
MPPT voltage range	500Vdc~1500Vdc
Full load MPPT voltage range	860~1300Vdc
MPPT efficiency	99.90%
<b>AC Output</b>	
Rated AC output power	250kW (@30°C)
Max. output power	250kVA
Rated AC output voltage	800Vac
Rated output current	180.4A
Rated grid frequency	50Hz/60Hz
Grid frequency range	45~55Hz/55~65Hz
Power factor	>0.99
Adjustable power factor	0.8 (leading) ~ 0.8 (lagging)
THDi	<3% (rated power)
<b>Efficiency</b>	
Max. efficiency	99.0%
European efficiency	98.7%
<b>Protection</b>	
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
Anti-PID and PID recovery function	Optional
<b>General</b>	
Dimensions (W × H × D)	1100 × 760 × 361mm
Weight	100kg
IP grade	IP66
Self-consumption at night	<5W
Cooling type	Intelligent forced air cooling
Altitude	5000m (>3000m derating)
Operating temperature	-35°C~60°C
Relative humidity	0~100%
Display	LED+WIFI (APP)
Communication	RS485/PLC (optional)
DC terminal	Amphenol H4
AC terminal	OT/DT terminal
Installation method	Wall-mounted
Compliance	NB/T 32004-2018, IEC62109-1, IEC62109-2, EN 61000-6-2, EN 61000-6-4, IEC61683, IEC60068, IEC61727, IEC62116

\* The specifications are subject to change without notice.

