

1500V Three-phase On-grid String Inverter

SPI250k-B-H



Product Features

High efficient

- Advanced three-level technology max. efficiency 99.02%
- 12 MPPT design, compatible with high-efficient PV module
- Anti-PID and PID recovery function

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

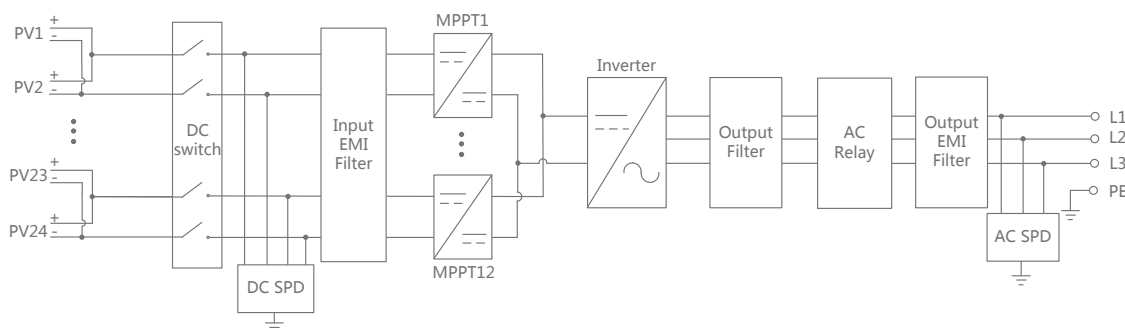
Safe and reliable

- IP66 and C5 anti-corrosion grade, intelligent fan with IP68 protection
- Redundant power supply by AC and DC
- Built-in AC / DC SPD protection

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

Function Diagram



Technical Specification

Items	SPI250K-B-H
DC Input	
Max. PV input voltage	1500Vdc
Rated PV voltage	1050Vdc
Max. PV input current	360A
No. of MPPTs	12
No. of PV strings per MPPT	2
MPPT voltage range	500Vdc~1500Vdc
Starting voltage	550Vdc
AC Output	
Rated AC output power	250kW@30°C, 240kW@40°C, 220kW@50°C
Max. output power	250kW
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)
Efficiency	
Max. efficiency	99.02%
European efficiency	98.80%
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
Anti-PID function and PID recovery function	Yes
AFCI protection	Optional
General	
Dimensions (W×H×D)	1100×760×361mm
Weight	99kg
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+WIFI (APP)
Communication	RS485 (standard)/PLC (optional)/Ethernet/WIFI/GPRS (optional)
DC terminal	MC4 Terminal
AC terminal	OT/DT Terminal
Installation method	Wall-mounted
Standard	IEC62109-1, IEC62109-2, EN 61000-6-2, EN 61000-6-4, IEC61683, EN 50530, IEC61727, IEC62116, EN50549-2, BDEW, VDE0126, CEA, CEI0-16, IEC60529, IEC60068

- Specifications are subject to change without prior notice.

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