

1100V Three-phase On-grid String Inverter

SPI100K-B/SPI125K-B



Product Features

High efficient

- Advanced three-level technology max. efficiency 98.8%
- 9~12 MPPTs design, compatible with bifacial PV panel
- Anti-PID and PID recovery function

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

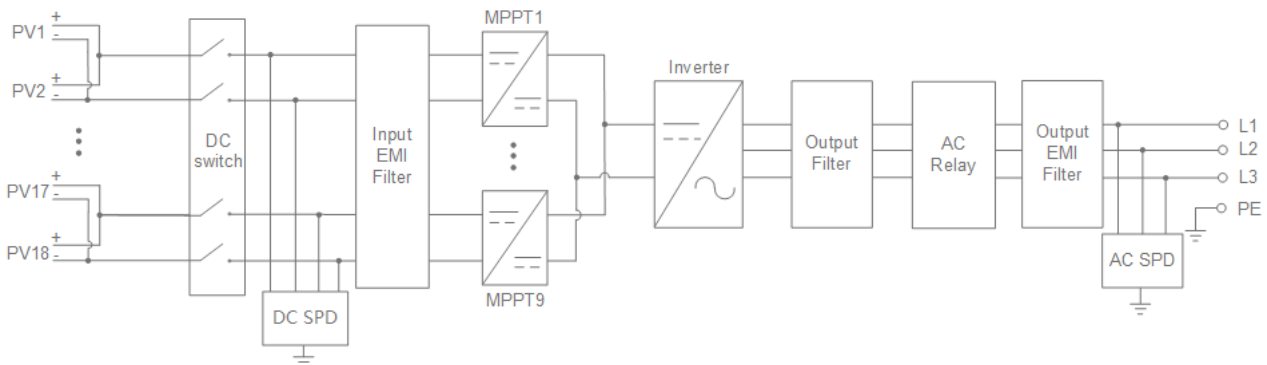
System optimization

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

Function Diagram



Technical Specification

Items	SPI100K-B	SPI125K-B
DC Input		
Max. PV input voltage	1100Vdc	
Max. PV input current	270A (30A×9)	
No. of MPPTs	9 (10~12 optional)	
No. of PV strings per MPPT	2	
MPPT voltage range	200Vdc~1000Vdc	
Starting voltage	250Vdc	
MPPT efficiency	99.90%	
AC Output		
Rated AC output power	100kW	125kW
Max. output power	110kVA	125kVA
Rated AC output voltage	400Vac	
Rated output current	144.3A	180.4A
Max. output current	158.8A	180.4A
Rated grid frequency	50/60Hz	
Grid frequency range	45~55Hz/55~65Hz	
Power factor	>0.99 (rated power)	
Adjustable power factor	+0.8~-0.8	
THDi	<3% (rated power)	
Efficiency		
Max. efficiency	98.80%	
European efficiency	98.40%	
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 and PID recovery function	Optional	
General		
Dimensions (W×H×D)	1100×760×361mm	
Weight	93kg	95kg
IP grade	IP66	
Self-consumption at night	<2W	
Cooling type	Intelligent forced air cooling	
Altitude	5000m (>4000m derating)	
Operating temperature	-35~60°C	
Relative humidity	0~100%	
Display	LED+WIFI (APP)	
Communication	RS485/WIFI (optional)/GPRS (optional)	
DC terminal	Amphenol H4	
AC terminal	OT/DT Terminal	
Installation method	Wall-mounted	
Standard	NB/T 32004-2018, GB/T 37408-2019, IEC62109-1, IEC62109-2, IEC61727, IEC62116, IEC61683, EN 50549	

■ Specifications are subject to change without prior notice.

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