

1000V Three-phase On-grid String Inverter

SPI100K-B/SPI110K-B/SPI125K-B



Product Features

High efficient

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

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

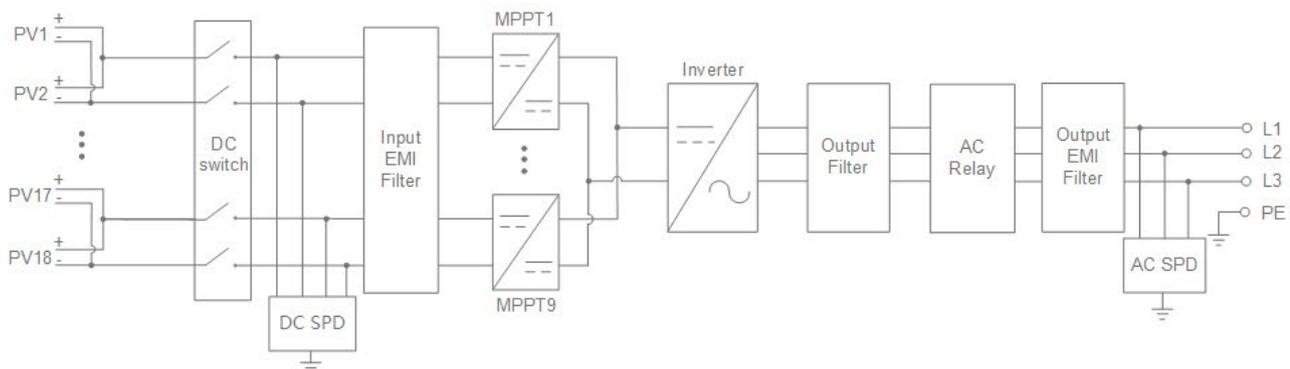
Safe and reliable

- 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	SPI100K-B	SPI110K-B	SPI125K-B
DC Input			
Max. PV input voltage	1100Vdc		
Max. PV input current	270A		
No. of MPPTs	9/6 (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	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~-0.8		
THDi	<3% (rated power)		
Efficiency			
Max. efficiency	98.80%		
European efficiency	98.30%		
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)	1030×610×345mm		
Weight	86kg		
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 (maximum 300mm ²)		
Installation method	Wall-mounted		
Standard	NB/T32004-2018, GB/T37408-2019, IEC62109-1, IEC62109-2, IEC61727, IEC62116, IEC61683, EN50549, CEI		

- Specifications are subject to change without prior notice.

Kehua Tech

Add: No. 457, Malong Road, Torch High-Tech Industrial Zone, Xiamen Fujian China

Tel: +86-592-5160516 Fax: +86-592-5162166 www.kehua.com

