

1500Vdc String Inverter

Three-phase On-grid String Inverter

SPI320K~350K-B-H Series



Product Features

High efficient

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

System optimization

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

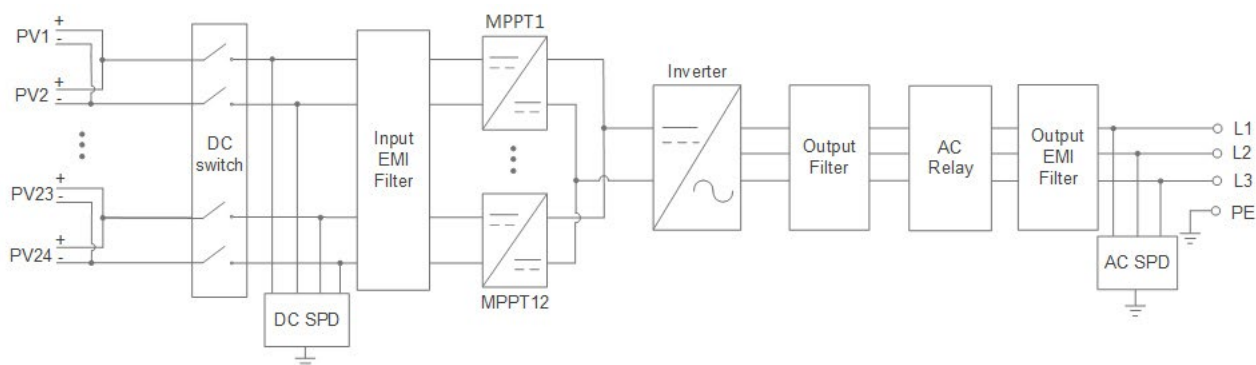
Safe and reliable

- 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	SPI320K-B-H	SPI350K-B-H
DC Input (PV)		
Max. PV input voltage	1500Vdc	
Rated input voltage	1050Vdc	
Max. PV input current	12×40A	
No. of MPPTs	12	
No.of PV strings per MPPT	2	
MPPT voltage range	500~1500Vdc	
Starting voltage	550Vdc	
DC switch	Yes	
AC Output (On-grid)		
Rated AC output power	320kW	350kW
Max. output power	352kVA	355kVA
Rated AC output voltage	800Vac	
Rated output current	230.9A	252.6A
Max. output current	254A	256.2A
Rated grid frequency	50Hz/60Hz	
Grid frequency range	45~55Hz/55~65Hz	
Power factor	>0.99 (rated power)	
Adjustable power factor	0.8 (leading)~0.8 (lagging)	
THDi	<3% (rated power)	
Efficiency		
Max. efficiency	99.02%	
European efficiency	98.80%	
MPPT efficiency	99.90%	
Function and protection		
Anti-islanding	Yes	
DC (PV) reversed connection	Yes	
AC short circuit protection	Yes	
Temperature protection	Yes	
Surge protection	DC Type II & AC Type II	
AFCI function	Yes (optional)	
Integrated PID function	Yes (optional)	
IV curve scan and diagnosis	Yes (optional)	
Support night SVG function	Yes	
General		
Dimensions (W×H×D)	1120×800×360mm	
Weight	120kg	
IP grade	IP66	
Self-consumption at night	<3W	
Cooling type	Intelligent forced air cooling	
Altitude	4000m (>3000m derating)	
Operating temperature	-35~60°C	
Relative humidity	0~100%	
Display	LED+APP	
DC terminal	MC4 Terminal	
AC terminal	OT Terminal	
Installation method	Wall-mounted	
Communication	RS485, WIFI, Bluetooth / PLC (optional), 4G (optional),	
Certification	IEC/EN62109-1, IEC/EN62109-2, EN61000, IEC62116, IEC61727, IEC60068, IEC61683	

- Specifications are subject to change without prior notice.