

Three-phase On-grid String Inverter

SPI300K-350K-B-H/H1 Series



High efficiency

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



Safe and reliable

- IP66 and C5 optional 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



System optimization

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



Technical Specification

Items	SPI300K-B-H	SPI300K-B-H1	SPI320K-B-H	SPI320K-B-H1	SPI350K-B-H	SPI350K-B-H1
DC Input (PV)						
Max. PV input voltage	1500Vdc					
Rated input voltage	1080Vdc					
Max. PV input current	12×40A	15×30A	12×40A	15×30A	12×40A	15×30A
No. of MPPTs	12	15	12	15	12	15
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	300kW		320kW		350kW	
Max. output power	330kVA		352kVA		355kVA	
Rated AC output voltage	800Vac					
Rated output current	216.5A		230.9A		252.6A	
Max. output current	238.2A		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 (optional)					
General						
Dimensions (W×H×D)	1200*800*360mm					
Weight	140kg					
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, PLC (optional), WIFI (optional)/4G (optional), Bluetooth (optional)					
Compliance	EN 62109-1/2, IEC 62109-1/2, EN IEC 61000-6-2/4, IEC 62116, IEC 61727, EN 50549-2, NC RfG, VDE-AR-N 4110, VDE-AR-N 4120, CEI 0-16					

- Specifications are subject to change without prior notice.