Three-phase On-grid String Inverter

SPI100K~125K-B X2 Series

High Yield

- 9 MPPTs design with max efficiency of 98.8%
- Up to 15A max current per PV string, compatible with large current/bifacial modules

Safe and Reliable

- IP66 and optional C5 anti-corrosion grade, intelligent fan with IP68 protection
- Integrated DC&AC SPD

Easy O&M

- Optional intelligent I-V and fault waveform recording, quick failure analysis
- Key components life optimization design reduces failure risk

Grid Friendly

- Compatible max 240mm^2 AL AC cables
- Optional PLC communication, save communication cable investment



Technical Specification

Items	SPI100K-B X2	SPI110K-B X2	SPI125K-B X2
DC Input (PV)			
Max. PV input voltage	1100Vdc		
Rated input voltage	600Vdc		
Max. current per MPPT	30A		
No. of MPPTs	9		
No. of PV strings per MPPT	2		
MPPT voltage range	200~1000Vdc		
Starting voltage	250Vdc		
DC switch	Yes		
AC Output (On-grid)			
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 (leading)~0.8 (lagging)		
THDi	<3% (rated power)		
Efficiency*			
Max. efficiency	98.80%		
European efficiency	98.50%		
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)		
General			
Dimensions (W*H*D)	1030*610*345mm		
Weight	83kg		
IP grade	IP66		
Self-consumption at night	<2W		
Cooling type	Intelligent forced air cooling		
Altitude	4000m (>3000m derating)		
Operating temperature	-35~60ºC		
Relative humidity	0~100%		
Display	LED+APP		
DC terminal	MC4 Terminal		
AC terminal	OT Terminal		
Installation method	Wall-mounted		
Communication	RS485, PLC (optional), WIFI, 4G (optional)		
Compliance	EN 62109-1/2, IEC 62109-1/2, EN IEC 61000-6-2/4, EN IEC 61000-3-11, EN/IEC 61000-3-12, IEC 62116, IEC 61727, CEI 0-16, CEI 0-21, EN 50549-1, NC RfG		

- *Data under laboratory test conditions.
- Specifications are subject to change without prior notice.