

Three-phase On-grid String Inverter

SPI100K-125K-B X2/X2P Series



High efficiency

- Advanced three-level technology max. efficiency 98.8%
- 9/6 MPPTs design, compatible with large current / bifacial modules
- High power tracking density @ 400Vac system



Safe and reliable

- IP66 and C5 optional anti-corrosion grade, intelligent fan with IP68 protection
- AFCI protection and fire protection, proactively reduces fire risk
- Anti-PID and PID recovery function



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



Technical Specification

Items	SPI100K-B X2	SPI100K-B X2P	SPI110K-B X2	SPI110K-B X2P	SPI125K-B X2	SPI125K-B X2P
DC Input (PV)						
Max. PV input voltage	1100Vdc					
Rated input voltage	600Vdc					
Max. PV input current	9×30A	6×40A	9×30A	6×40A	9×30A	6×40A
No. of MPPTs	9	6	9	6	9	6
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	-35-60°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 /4G (optional), Bluetooth (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					

- Specifications are subject to change without prior notice.