

Three-phase On-grid String Inverter

SPI250K-B-H X2/X2P Series



High Yield

- 12/6 MPPTs design with max efficiency 99.02%, 12 MPPT design, compatible with bifacial PV panel
- Up to 20A 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 wave recording, quick failure analysis
- Key components life optimization design reduce failure risk



System optimization

- Optional PLC communication , save communication cable investment
- Optional Q at night function Quick Dynamic response



Technical Specification

Items	SPI250K-B-H X2	SPI250K-B-H X2P
DC Input (PV)		
Max. PV input voltage	1500Vdc	
Rated input voltage	1080Vdc	
Max.current per MPPT	30A	60A
No. of MPPTs	12	6
No. of PV strings per MPPT	2	3
MPPT voltage range	500~1500Vdc	
Starting voltage	550Vdc	
DC switch	Yes	
AC Output (On-grid)		
Rated AC output power	250kW	
Max. output power	250kVA	
Rated AC output voltage	800Vac	
Rated output current	180.4A	
Max. output current	180.4A	
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)	1100*760*361mm	
Weight	117kg	
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), Wi-Fi (optional)	
Compliance	EN 62109-1/2, IEC 62109-1/2, EN IEC 61000-6-2/4, IEC 62116, IEC 61727, CEI 0-16, EN 50549-2, NC RfG	

• *Data under laboratory test conditions.

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