

# Three-phase On-grid String Inverter

SPI250K-B-H



## High Yield

- 12 MPPTs design with max efficiency 99.02%, 12 MPPT design, compatible with bifacial PV panel
- Up to 15A 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
<b>DC Input (PV)</b>	
Max. PV input voltage	1500Vdc
Rated input voltage	1080Vdc
Max.current per MPPT	30A
No. of MPPTs	12
No. of PV strings per MPPT	2
MPPT voltage range	500~1500Vdc
Starting voltage	550Vdc
DC switch	Yes
<b>AC Output (On-grid)</b>	
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)
<b>Efficiency*</b>	
Max. efficiency	99.02%
European efficiency	98.80%
MPPT efficiency	99.90%
<b>Function and protection</b>	
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)
<b>General</b>	
Dimensions (W*H*D)	1100*760*361mm
Weight	99kg
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 61683, EN 50530, IEC 62116, IEC 61727, IEC 60529, BDEW, CEI 0-16, EN 50549-2, NC RfG

\*Data under laboratory test conditions..

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