

# Three-phase On-grid String Inverter

SPI8K~12K-B X2 Series



## High Yield

- Multi-MPPT design with max efficiency 98.6%
- Up to 15A current per PV string



## Safe and reliable

- IP66 protection, wide operating temperature, high environment adaptability
- Optional AFCI function, eliminates fire hazards



## Easy O&M

- Intelligent Wisolar Plus APP+Cloud platform support remote upgrade service provides all-round visual O&M
- Compact and light weight for easy O&M



## Household friendly

- Small size, easy to install and use
- Natural cooling, ensuring low environmental noise



# Technical Specification

Items	SPI8K-B X2	SPI10K-B X2	SPI12K-B X2
<b>DC Input (PV)</b>			
Max. PV input voltage	1100Vdc		
Rated input voltage	600Vdc		
Max.current per MPPT	15A/15A		
No. of MPPTs	2		
No. of PV strings per MPPT	1/1		
MPPT voltage range	180-1000Vdc		
Starting voltage	180Vdc		
DC switch	Yes		
<b>AC Output (On-grid)</b>			
Rated AC output power	8.0kW	10.0kW	12.0kW
Max. output power	8.8kVA	11.0kVA	13.2kVA
Rated AC output voltage	400Vac		
Rated output current	11.6A	14.5A	17.4A
Max. output current	12.8A	15.9A	19.1A
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	98.60%		
European efficiency	98.10%		
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)		
Zero-export function	Yes (optional)		
<b>General</b>			
Dimensions (W*H*D)	460*420*182mm		
Weight	16kg		
IP grade	IP66		
Self-consumption at night	<1W		
Cooling type	Natural cooling		
Altitude	4000m (>3000m derating)		
Operating temperature	-35°C~+60°C		
Relative humidity	0~100%		
Display	LED+APP		
DC terminal	MC4 Terminal		
AC terminal	OT Terminal		
Installation method	Wall-mounted		
Communication	RS485,Wi-Fi		
Compliance	EN 62109-1/2, IEC 62109-1/2, EN IEC61000-6-1/3, IEC 62116, IEC 61727, EN 50549-1, NC RfG, CEI 0-21		

- \*Data under laboratory test conditions.

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