Three-phase On-grid String Inverter

SPI15K~25K-B X2 Series

High Yield

- Multi-MPPT design with max efficiency 98.6%
- Up to 15A max 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 Wisesolar Plus
- APP+Cloud platform support remote upgrade service provides all-round visual O&M
- Compact and light weight for easy O&M

Grid friendly

- Grid-connected current harmonics <3%, green adapts to grid
- Ultra wide grid voltage range



Technical Specification

Items	SPI15K-B X2	SPI17K-B X2	SPI20K-B X2	SPI23K-B X2	SPI25K-B X2
DC Input (PV)					
Max. PV power (recommend)	20.25kWp	22.95kWp	27kWp	31.05kWp	33.75kWp
Max. PV input voltage	1100Vdc				
Rated input voltage	600Vdc				
Max.current per MPPT	30A/15A		30A/30A		
No. of MPPTs	2				
No. of PV strings per MPPT	2/1		2/2		
MPPT voltage range	180~1000Vdc				
Starting voltage	180Vdc				
DC switch	Yes				
AC Output (On-grid)					
Rated AC output power	15kW	17kW	20kW	23kW	25kW
Max. output power	16.5kVA	18.7kVA	22kVA	25.3kVA	27.5kVA
Rated AC output voltage	380/400Vac				
Rated output current	21.7A	24.5A	28.9A	33.2A	36.1A
Max. output current	23.8A	27.0A	31.8A	36.5A	39.7A
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	98.60%				
European efficiency	98.10%				
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 III (Type II optional)				
AFCI function	Yes (optional)				
Integrated PID function	Yes (optional)				
Zero-export function	Yes (optional)				
General					
Dimensions (W*H*D)	460*420*182mm				
Weight	17kg				
IP grade	IP66				
Self-consumption at night	<1W				
Cooling type	Intelligent forced air cooling				
Altitude	4000m (>3000m derating)				
Operating temperature	-35ºC~60ºC				
Relative humidity	0~100%				
Display	LED+APP				
DC terminal	MC4 Terminal				
AC terminal	OT Terminal				
Installation method	Wall-mounted				
Communication	RS485 (optional), DRM (optional), WIFI /4G (optional)				
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.
- Specifications are subject to change without prior notice