Three-phase On-grid String Inverter

SPI50K~60K-B X2 Series

High Yield

- 4/5 MPPTs design with max efficiency
- Up to 20A max 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 reduces failure risk

Grid Friendly

- Grid-connected current harmonics <3%, for clean grid interaction
- Ultra wide grid voltage range



Technical Specification

Items	SPI50K-B X2	SPI60K-B X2
DC Input (PV)		
Max. PV input voltage	1100Vdc	
Rated input voltage	600Vdc	
Max. current per MPPT	40A	
No. of MPPTs	4	5
No. of PV strings per MPPT	2	
MPPT voltage range	180~1000Vdc	
Starting voltage	180Vdc	
DC switch	Yes	
AC Output (On-grid)		
Rated AC output power	50kW	60kW
Max. output power	55kVA	66kVA
Rated AC output voltage	380/400Vac	
Rated output current	72.2A	86.6A
Max. output current	79.4A	95.3A
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	98.70%	98.80%
European efficiency	98.40%	98.45%
MPPT efficiency	99.90%	
Function and protection		
Anti-islanding	Yes	
DC(PV) reversed connection	Yes	
AC short circuit protection	Yes	
Temperature protection	Yes	
AFCI function	Yes (optional)	
Integrated PID function	Yes (optional)	
IV curve scan and diagnosis	Yes (optional)	
Zero-export function	Yes (optional)	
Surge protection	DC Type II & AC Type II	
General		
Dimensions (W*H*D)	670*490*284 mm	
Weight	55kg	
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	WIFI, RS485, 4G (optional)	
Compliance	EN 62109-1/2, IEC 62109-1/2, EN IEC 61000-6-2/4, IEC 61727, IEC 62116, CEI 0-16, CEI 0-21, EN 50549-1, EN 50549-10, NC RfG	

- *Data under laboratory test conditions.
- Specifications are subject to change without prior notice.