

Three-phase On-grid String Inverter

SPI50K~60K-B X2 Series



High Yield

- 4/5 MPPTs design with max efficiency 98.8%
- 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 Reduce failure risk



Grid friendly

- Grid-connected current harmonics <3%, green adapts to grid
- 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. PV input current	20A	
No. of MPPTs	4*40A	5*40A
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	380/400/415Vac	
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%	99.80%
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	
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	-35°C~60°C	
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.

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