

Three-phase On-grid String Inverter

SPI100K~125K-B Series



High Yield

- 9/6 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



System optimization

- Compatible max 240mm² AL AC cables
- Optional PLC communication, save communication cable investment



Technical Specification

Items	SPI100K-B	SPI110K-B	SPI125K-B
DC Input (PV)			
Max. PV input voltage		1100Vdc	
Rated input voltage		600Vdc	
Max. PV input current		9×30A/6×40A	
No. of MPPTs		9/6	
No. of PV strings per MPPT		2	
MPPT voltage range		200~1000Vdc	
Starting voltage		250Vdc	
DC switch		Yes	
AC Output (On-grid)			
Rated AC output power	100kW	110kW	125kW
Max. output power	110kVA	121kVA	137.5kVA
Rated AC output voltage		400Vac	
Rated output current	144.3A	158.8A	180.4A
Max. output current	158.8A	174.7A	198.5A
Rated grid frequency		50/60Hz	
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		98.80%	
European efficiency		98.50%	
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	
AFCI function		Yes (optional)	
Integrated PID function		Yes (optional)	
IV curve scan and diagnosis		Yes (optional)	
General			
Dimensions (W*H*D)		1030*610*345mm	
Weight		80kg	
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), WIFI (optional)/GPRS (optional), Bluetooth	
Compliance		EN 62109-1/2, IEC 62109-1/2, EN IEC 61000-6-2/4, EN IEC 61000-3-11, EN IEC 61000-3-12, IEC 60068, IEC 61683, IEC 62116, IEC 61727, CEI 0-16, EN 50549-1/2, NC RfG, EN 50530, UTE C15-712-1, DIN VDE 0126-1-1, VDE-AR-N 4110	

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

Kehua Digital Energy

Add: No. 457, Malong Road, Torch High-Tech Industrial Zone, Xiamen Fujian China

Tel: +86-592-5160516 Fax: +86-592-5162166 www.kehua.com

