



String Inverter

SPI-B Series (12~30kW)

- » High efficiency, up to 98.4%
- » Easy monitoring
- » Advanced design for reliability assurance

Efficient and flexible:

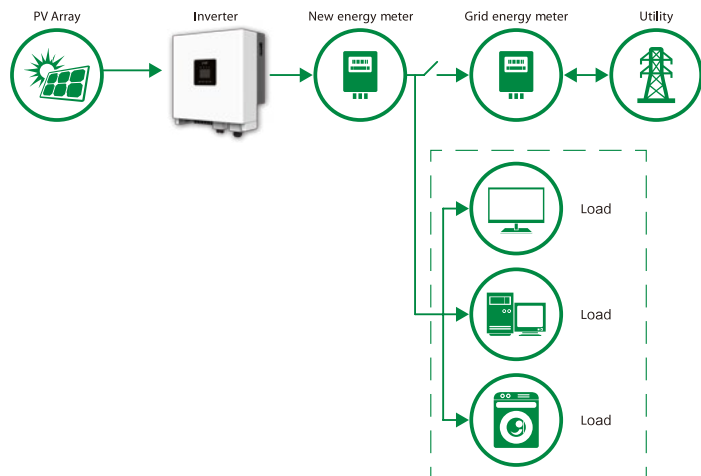
- Wide MPPT range 300~950V
- Peak efficiency up to 98.4%, transformerless
- 2 independent MPPT
- Precise MPPT algorithm achieve 99.9%, more generation

Excellent Performance:

- Power factor adjustable (± 0.8)
- Grid-friendly with LVRT and accept grid dispatching
- IP65 for outdoor application
- Operating temperature range, -25~60°C

High Reliability:

- Double working power double resource supply for redundant
- Best components ensure reliability and long life
- DC reverse connection & AC short circuit protection
- Sensitive current leakage protection
- DC & AC lightning protection



User Friendly:

- 3.5-inch intelligent color LCD
- RS485/Wi-Fi/SNMP/USB for option, easy monitoring
- Plug and play connection unit
- Wall mounted, quick installation and easy maintenance

Technical Specification:

Items	SPI12K-B	SPI15K-B	SPI20K-B	SPI30K-B
Input				
Max. PV Power (W)	13200	16500	22000	34000
Max. PV Input Voltage (Vdc)	1000			
Startup Voltage (Vdc)	290			
MPPT Voltage Range (Vdc)	300~950			200~800
MPPT Voltage Range for Nominal Power (Vdc)	480~800			
No. of MPPTs	2			4
Max. Number of PV Strings per MPPT	2			
Max. PV Input Current (A)	2×13.8	2×17.3	2×23	2×34.5
MPPT Efficiency	99.90%			
Output				
Nominal AC Output Power (W)	12000	15000	20000	30000
Max. AC Output Current (A)	17.4	21.8	29	43.5
Nominal AC Voltage (Vac)	3/N/PE, 380/400			
AC Voltage Range (Vac)	3/N/PE, 380/400			
Nominal Grid Frequency (Hz)	50/60			
THDi	<3% (nominal power)			
DC Current Injection (mA)	<155			
Power Factor	>0.99@default value at nominal power ±0.8			
System Data				
Max. Efficiency	98.40%			98.60%
Max. European efficiency	98.00%			98.30%
Standby consumption (W)	5			
Night power consumption (W)	0			
Display	3.5 -inch LCD color screen			
Communication	RS485/USB/WIFI			
DC connection type	MC4			
AC connection type	Terminal connector			
Safety	EN62109-1, EN62109-2, IEC62109-1, IEC62109-2			
EMC	EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4			
Grid Standard	France: UTE C 15-712-1: 2013, DIN VDE 0126-1-1/A1: 2012/VFR-20, ERDF-NOI-RES_13E: 2013-06; China: NB/T32004-2013; UK: G59/3-2: 2015; Thailand: PEA, MEA			
Dimensions (W×H×D) (mm)	510×265×630			530×365×700
Weight (kg)	38		45	58.2
Mounting Method	Wall bracket			
Protection				
Anti-islanding Protection	Yes			
LVRT	Yes			
DC Reverse Connection Protection	Yes			
AC Short Circuit Protection	Yes			
Leakage Current Protection	Yes			
DC Switch	Yes (option)			
DC Fuse	Yes			
Overcurrent Protection	Yes			
PV Fault Detect	Yes (option)			
DC Lightning Protection	Yes			
AC Lightning Protection	Yes			
Over Temperature Alarm/Protection	Yes			

- Specifications are subject to change without prior notice.