



# Three - phase String Inverters

SPI8K-B/SPI10K-B/SPI12K-B/  
SPI15K-B/SPI17K-B/SPI20K-B

### Efficient and flexible:

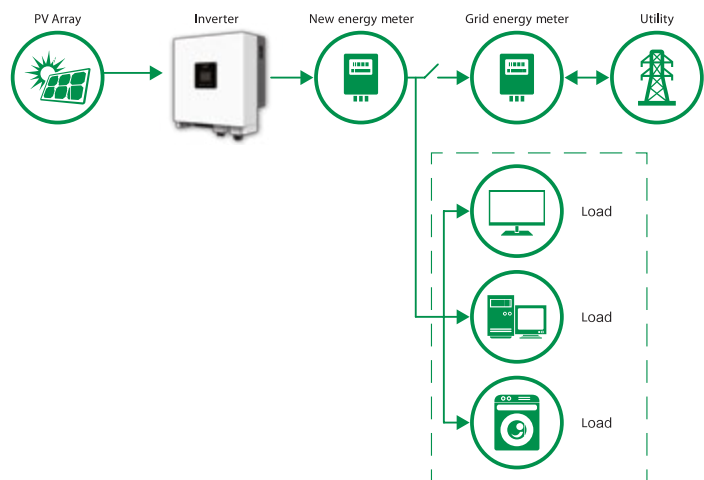
- Wide MPPT range 300~950V
- Peak efficiency up to 98.4%, transformerless
- 2 independent MPPT
- Precise MPPT algorithm achieve 99.9%, more generation

### Excellent Performance:

- Power factor adjustable ( $\pm 0.8$ )
- 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	SPI8K-B	SPI10K-B	SPI12K-B	SPI15K-B	SPI17K-B	SPI20K-B
<b>DC Input</b>						
Max. PV Power (kW)	9.2	11.5	13.8	17.4	19.1	23
Max. PV Input Voltage (Vdc)	1000					
Max. of MPPTs/Strings	2x11		11+22		2x22	
No. of MPPTs/Strings	2/2	2/2	2/3	2/3	2/4	2/4
MPPT Voltage Range (Vdc)	200~800					
Startup Voltage (Vdc)	250					
MPPT Efficiency	99.9%					
<b>AC Output</b>						
Nominal AC Output Power (kW)	8	10	12	15	17	20
Maximum Output Power	8.8	11	13.2	16.5	18.7	22
Nominal AC Voltage (Vac)	380/400					
Rated Output Current	12.2	15.2	18.2	22.8	25.8	30.4
Maximum Output Current	13.4	16.7	20	25.1	28.4	33.4
Nominal Grid Frequency (Hz)	50/60					
Grid Frequency Range	45~55/55~65					
Power Factor	>0.99 (full load)					
PF Adjustable Range	0.8 (leading)-0.8 (lagging)					
THDI	<3% (nominal power)					
<b>Efficiency</b>						
Max.Efficiency	98.2%		98.3%		98.5%	
European Efficiency	97.9%		98%		98.2%	
<b>Protection</b>						
Anti-islanding	Yes					
DC Reverse Connection	Yes					
AC Short Circuit	Yes					
Leakage Current Protection	Yes					
Surge Protection	Yes					
DC Switch	Optional					
PV Fault Detect	Yes					
<b>System Data</b>						
Dimensions (WxHxD)(mm)	430x620x270				510x630x265	
Weight (kg)	30		32		45	
IP Grade	IP 65					
Night Consumption	<1 W					
Cooling	Nature cooling		Intelligent forced air cooling			
Altitude	4000m (>3000m derating)					
Operating Temperature Range (°C)	-25~+60					
Operating Humidity	0~95% (Non-condensation)					
Display	LCD+LED					
Communication	RS485/WiFi/GPRS					

- Specifications are subject to change without prior notice.