



Three-phase String Inverter

**SPI40K-BHV/SPI50K-BHV/
SPI60K-BHV/SPI70K-BHV/
SPI80K-BHV**

Efficient Power Generation:

- New patented soft switch technology + tri-level circuit topology, maximum conversion efficiency up to 99%
- Multi MPPT design, strong complex installation environment adaptability
- 45°C 1.1 times the long-term overload, 50°C full load operation

Safe and Reliable:

- Outdoor IP65 design, no derating below 3000m altitude
- IP68 intelligent fan, low temperature rise, long life
- PID protective function, avoid electrical shock
- Integrated AC/DC full lightning protection

Intelligent Management:

- Intelligent fault wave recording, quick failure analysis.
- I & V Intelligent diagnosis, accurate identification and positioning of abnormal PV panels
- Intelligent online upgrade function, easy upgrade and maintain
- Auxiliary power supply can be provided for PV tracking supporter
- Support Power line communication mode, fast transmission and low cost

Grid Friendly:

- Grid-connected current harmonics <3%, green adapts to grid
- Ultra wide grid voltage range, with LVRT function

Technical Specification:

Items	SPI40K-BHV	SPI50K-BHV	SPI60K-BHV	SPI70K-BHV	SPI80K-BHV
DC Input					
Max. PV Power (kW)	46	57	69	77	87
Max. PV Input Voltage (Vdc)	1100				
Max. PV Input Current (A)	3x30	3x30	4x30	4x37.5	4x44
No. of MPPTs/Strings	3/9	3/9	4/12	4/12	4/16
MPPT Voltage Range (Vdc)	300~1000				
Start Up Voltage(Vdc)	350				
MPPT Efficiency	99.9%				
AC Output					
Nominal AC Output Power (kW)	40	50	60	70	80
Max. Output Power (kW)	44	55	66	77	88
Nominal AC Voltage (Vac)	480	500	480	540	540
Rated Output Current (A)	48.1	57.8	72.2	74.8	85.5
Max. Output Current (A)	52.9	63.5	79.4	80	94.1
Nominal Grid Frequency (Hz)	50/60				
Grid Frequency Range (Hz)	45~55/55~65				
Power Factor	>0.99 (full load)				
PF Adjustable Range	0.8 (leading)-0.8 (lagging)				
THDI	<3% (nominal power)				
Efficiency					
Max. Efficiency	98.8%	99%	99%	99%	99%
European Efficiency	98.4%	98.5%	98.5%	98.5%	98.5%
Protection					
Anti-islanding	Yes				
DC Reverse Connection	Yes				
AC Short Circuit	Yes				
Leakage Current Protection	Yes				
Surge Protection	Yes				
PV Fault Detect	Yes				
DC Switch	Optional				
PID Recovery	Optional				
System Data					
Dimensions (WxHxD)(mm)	600x850x275				600x900x275
Weight (kg)	65				73
IP grade	IP65				
Night Consumption	<1W				
Cooling	Intelligent forced air cooling				
Altitude	5000m (>3000m derating)				
Operating Temperature Range (°C)	-25~+60				
Operating Humidity	0~95% (non-condensation)				
Display	LED				
Communication	RS485/PLC				

- Specifications are subject to change without prior notice.