

## 1000V Three-phase On-grid String Inverter

SPI136K-BHV/SPI150-BHV



### Product Features

#### High efficient

- Advanced three-level technology max. efficiency 98.8%
- 9~12 MPPTs design, compatible with bifacial PV panel
- Anti-PID and PID recovery function

#### System optimization

- DC 2 in 1 connection enabled and compatible with AI AC cables
- PLC communication optional, save cable investment
- Night SVG and quick response

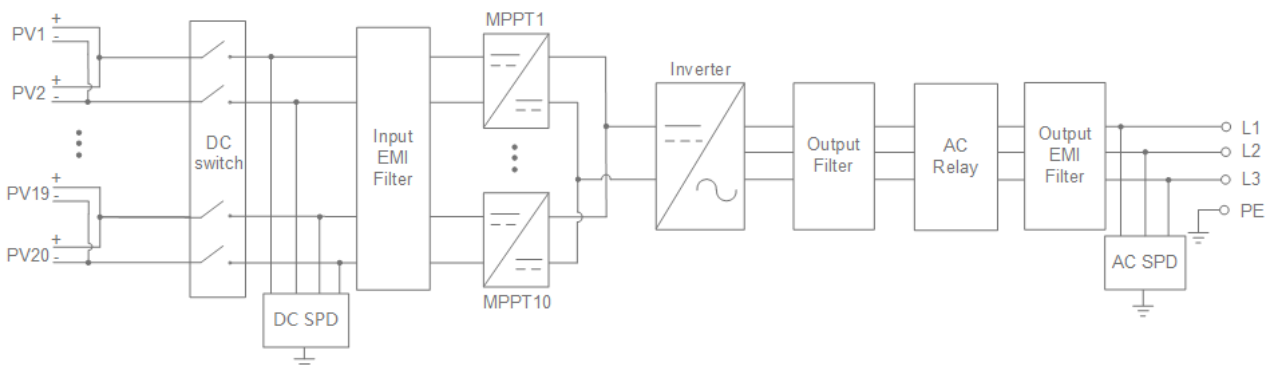
#### Safe and reliable

- IP66 and C5 anti-corrosion grade, intelligent fan with IP68 protection
- Redundant power supply by AC and DC
- Built-in AC / DC SPD protection

#### Intelligent management

- Intelligent I-V and fault wave recording, quick failure analysis
- Smart online upgrade, easy for system maintenance
- Capacitor detection and life prediction reduce the failure risk

### Function Diagram



# Technical Specification

Items	SPI136K-BHV	SPI150K-BHV
DC Input		
Max. PV input voltage	1100Vdc	
Max. PV input current	300A	
No. of MPPTs	10/6 (optional)	
No.of PV strings per MPPT	2	
MPPT voltage range	200Vdc~1000Vdc	
Starting voltage	250Vdc	
MPPT efficiency	99.90%	
AC Output		
Rated AC output power	136kW	150kW
Max. output power	149.6kVA	165kVA
Rated AC output voltage	3/PE, 310/540Vac	
Rated output current	145.4A	160.4A
Max. output current	159.9A	176.4A
Rated grid frequency	50/60Hz	
Grid frequency range	45~55Hz/55~65Hz	
Power factor	>0.99 (rated power)	
Adjustable power factor	+0.8~-0.8	
THDi	<3% (rated power)	
Efficiency		
Max. efficiency	99.01%	99.01%
European efficiency	98.52%	98.51%
Protection		
Anti-islanding	Yes	
DC reversed connection	Yes	
AC short circuit protection	Yes	
Temperature protection	Yes	
Surge protection	Yes	
PV fault detect	Yes	
DC switch	Yes	
Anti-PID and PID recovery function	Optional	
General		
Dimensions (W×H×D)	1030×610×345mm	
Weight	86kg	
IP grade	IP66	
Self-consumption at night	<2W	
Cooling type	Intelligent forced air cooling	
Altitude	5000m (>4000m derating)	
Operating temperature	-35~60°C	
Relative humidity	0~100%	
Display	LED, Bluetooth+APP)	
Communication	RS485/WIFI (optional)/GPRS (optional)/PLC (optional)	
DC terminal	Amphenol H4	
AC terminal	OT/DT Terminal (maximum 300mm²)	
Installation method	Wall-mounted	
Standard	NB/T32004-2018, GB/T37408-2019 (including LVRT&HVRT), CGC-R46016:2018B, CGC-R46080:2018A, CGC/GF 035-2013, CNCA/CTS0002-2014, IEC62109-1, IEC62109-2, EN61000-6-2, EN61000-6-4	

- Specifications are subject to change without prior notice.

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