



# String Inverter

## UL Standard Compliant

### SPI-BHV Series 38~60kW

- » High efficiency, up to 99.0%
- » Easy monitoring
- » Advanced design for reliability assurance
- » 4 MPPTs for maximum flexibility
- » Low cost of installation and O&M



#### Efficient and Flexible:

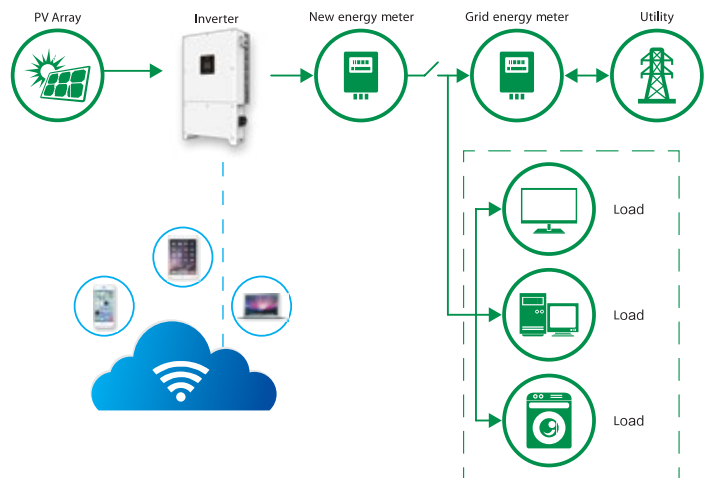
- Wide MPPT range 300~1000V
- Peak efficiency up to 99.0%, transformerless
- 4 MPPTs, MPPT achieve 99.9%
- 0-90° Mounting orientation for lay on roof installs

#### High Reliability:

- Using top global components to ensure reliability
- DC reverse connection & AC short circuit protection
- Sensitive current leakage protection
- DC & AC SPD
- Arc-fault circuit protection
- Integrated AC & DC disconnect switches
- Comply with array level rapid shutdown in accordance with NEC code

#### User Friendly:

- RS485/Wi-Fi/USB for option, easy monitoring
- Easy installation and low cost of O & M



#### Excellent Performance:

- Grid-friendly with LVRT and accept grid dispatching
- NEMA 4X outdoor application
- Up to 1.5 : 1 PV Power to Inverter Load
- Anti-PID function for option
- California Rule 21 compliant

## Technical Specification:

Items	SPI38K-BHV	SPI50K-BHV	SPI60K-BHV
<b>Input</b>			
Max. PV Power (W)	57,000	75,000	90,000
Max. PV Input Voltage (Vdc)	1000		
Startup Voltage (Vdc)	250		
MPPT Voltage Range (Vdc)	300~950		
MPPT Voltage Range for Nominal Power	540~800		
No. of MPPT Strings	4		
Max. Number of PV Strings	3x3	4x4	4x4
MPPT Efficiency	99.90%		
<b>Output</b>			
Nominal AC Output Power (W)	38,000	50,000	60,000
Max. AC Output Power (W)	41,800	55,000	66,000
Rated AC Output Current (A)	46	60	72
Nominal AC Voltage (Vac)	480		
Grid Voltage Range (Vac)	422~528		
Grid Frequency Range (Hz)	45~55Hz/55~65Hz		
THDi	<3%		
Power Factor	>0.99 @ Default Value (±0.8)		
<b>General Data</b>			
Max. Efficiency	99.0%		
CEC Efficiency	98.5%		
Night Power Consumption (W)	<3		
Ingress Protection	NEMA4X (IP65)		
DC Connection Type	MC4		
AC connection Type	Screw Terminals		
Operating Temperature (°C)	-25°C~+60°C		
Cooling Concept	Smart air cooling		
Dimensions (WxHxD)	26.3x39.4x10.8 inch / 600x1000x275 mm		
Weight (kg)	92lbs /42kg	145lbs / 66kg	150lbs / 68kg
Communication	USB, RS485, Wifi (optional), GPRS (optional), Ethernet (optional)		
<b>Protection</b>			
Anti-islanding Protection	Yes		
LVRT	Yes		
DC Reverse Connection Protection	Yes		
AC Short Circuit Protection	Yes		
Leakage Current Protection	Yes		
DC Switch	Yes		
Overcurrent Protection	Yes		
PV Fault Detect	Yes (option)		
DC Lightning Protection	Yes		
AC Lightning Protection	Yes		
Over Temperature Alarm/Protection	Yes		
<b>Testing &amp; Certification</b>			
Safety standard & Certification	UL 1741/ UL 1741 SA / IEEE 1547/ IEEE-1547A / UL 1699B / FCC part 15B / California Rule 21		
Testing Agency	ETL		
<b>Warranty</b>			
Standard	5 years		
Optional	10 or 15 years extended service can be purchased		

- Specification is subject to change without prior notice.
- Information is provided for reference purpose only and constitutes neither an offer or an acceptance.