

# Single-phase PV Energy Storage Inverter

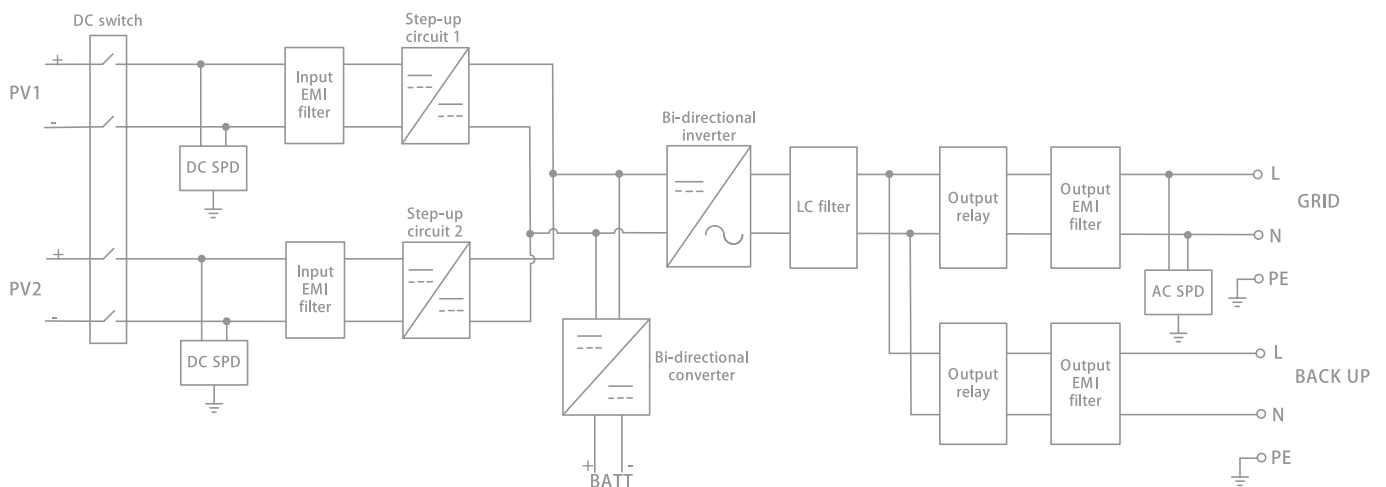
SPH3000~5000-B/BL



## Product Features

- Easy installation and suitable for outdoor use (BL model)
- Super silence design, noise <25dB
- Maximum efficiency: 97.8%
- Ultra wide MPPT range: 125Vdc - 580Vdc
- Full automatic control, easy and simple operation
- APP can control the state of the system in real time
- Smart battery management function, flexibly compatible with multiple types of energy storage batteries
- Wall mounted and rack installation (optional)

## Function Diagram



## Technical Specification

Index \ Item	SPH3600-BL	SPH5000-BL
<b>DC input</b>		
Max. Input Power	4000W	5500W
Max. Input Voltage	600Vdc	
MPPT Voltage Range	125-580Vdc	
Max. Input Current	11X2Adc	
No. of MPPTs / Strings per MPPT	2/2 (parallel connection is available)	
<b>On-grid output</b>		
Nominal AC Output Power	3600W	5000W
Nominal AC Voltage	220/230/240Vac	
AC Voltage Range	184~265Vac	
Grid Frequency Range	47.5Hz~52.5Hz/ 57.5Hz~62.5Hz	
Rated Output Current	15.7A	21.7A
Power Factor	> 0.99 ( $\pm 0.8$ , adjustable)	
Max. Efficiency	97.80%	
European Efficiency	97.20%	
THDi	<1.5% (rated power)	
<b>Battery inverter (emergency mode)</b>		
Rated Output Voltage	220/230/240Vac	
Output Frequency	50(60) $\pm 0.5$ Hz	
Output Power	2500W/3500VA	
Transfer Time	6ms	
THDv	<2% (linear load)	
<b>Charge/Discharge</b>		
Rated Voltage	48Vdc	
Max. Charging Power	2500W (settable)	
Max. Charge Current	50A (settable)	
Max. Discharge Power	2500W	
Max. Discharge Current	60A	
Battery Type	Ferric phosphate / three-element lithium / lead acid / lead carbon	
<b>System</b>		
Installation	Wall-mounted	
IP Grade	IP65	
Cooling	Natural air cooling	
Noise Emission	<25dB	
Display	LED/Cloud monitoring mobile APP	
Operating Humidity	0~90%, non-condensation	
Operating Temperature Range	-25°C~+60°C	
Altitude	0~3000m	
Compliance with Standards	VDE0126-1-1, VDE-AR-N4105,G83/2, G59/3, AS4777.2/3, ERDF, IEC62109-1, IEC62109-2, AS62040-1-1	
EMC	EN61000-6-3, EN61000-6-2	
Communication	RS485 (standard, MODBUS protocol) /WiFi (optional) /GPRS (optional)	
Optional Components	DC switch, CT, electric meter	
Dimensions (W x D x H)	480x420x185mm	
Weight	25kg	

\* Specification indexes may be subject to changes without further notice.

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