

Single Phase

STORAGE SYSTEM

PRODUCT MODEL

INVERTER

- BW-INV-SPH3.6K
- BW-INV-SPH5K
- BW-INV-SPB5K

+

BATTERY

- BW-BAT-10.1P



HIGH PERFORMANCE

- 200% PV over management;
- 200% backup overload capacity, 60A battery current;
- Max. efficiency 97.3%, Battery efficiency 97%;
- Load monitoring accuracy 10W, Battery discharging threshold 10W;



HIGH RELIABILITY

- UPS level redundant protection against backup load breakdown;
- Three-level firmware and two-level hardware battery protection;
- Multiple temperature monitoring, delicate thermal management;
- Max. 6 Inverters in parallel to increase power availability.



HIGH INTELLIGENCE

- Internal EMS optimizes home energy supply automatically;
- PV production forecast;
- Built-in electric power service, FCAS, VPP, etc.;
- Online monitoring, online diagnosis, online service.

INERTER MODEL	BW-INV-SPH3.6K		BW-INV-SPB5K	BW-INV-SPH5K
PV INPUT				
Max. PV Input Power	7.36kW			10kW
Max. PV Input Voltage	580V			580V
MPPT Range	100~550V			100~550V
Max. Input Current	15A / 15A			15A / 15A
Max. Short Circuit Current	18.75A / 18.75A			18.75A / 18.75A
MPPT Trackers	2			2
Strings Per MPPT Tracker	1/1			1/1
AC PORT				
Rated Grid Output Power	3.68kVA		5kVA / 4.6kVA(DE)	5kVA / 4.6kVA(DE)
Max. Grid Input Power	7.36kVA		10kVA	10kVA
Rated Grid / Backup Voltage			230Vac	
Rated Grid / Backup Frequency			50 / 60Hz	
Surge Backup Power	7.36kVA / 7.36kW		10kVA / 10kW	10kVA / 10kW
Rated Backup Power	3.68kVA		5kVA	5kVA
THDi			<3%	
THDv			<3% (Linear Load) / <5%(Non-linear Load)	
DCV			<100mV	
Crest Ratio			3:1	
Transfer Time			<10ms	
EFFICIENCY				
Max. Efficiency	97.3%			97.3%
Max. Round Trip Efficiency	90%		90%	90%
GENERAL DATA				
Operating Temperature Range			-20~60℃	
Topology			Transformerless	
Dimensions (W*H*D)			590×405×205mm	
Weight	19.5kg		18kg	19.5kg
Load Monitoring			Meter / CT / Backup box	
External Communication			RS-485 / WIFI / 4G / Ethernet	
Grid Regulation			VDE-AR-N 4105:2018, G98, G99, C10/11:2021, NTS 631, RD647:2020	
			UNE 217002:2020, CEI 0-21, VDE 0126-1-1, NRS 097-2-1, AS/NZS 4777.2:2020, EN 50549-1	
Safety Regulation			IEC/EN 62109-1&2, IEC/EN 62477-1:2012	
BATTERY MODEL			BW-BAT-10.1P	
Battery Type			LFP	
Battery Capacity			10.1kWh	
Usable Capacity			9.6kWh	
Depth of Discharge (DoD)			95%	
Nominal Battery Voltage			96V	
Operating Voltage Range			90~108V	
Max. Charging Current			52.5A	
Max. Discharging Current			52.5A	
Operating Temperature Range			Charge:0<T<50℃ / Discharge:-10<T<50℃	
Cycle Lifetime			8000	
Parallel			1~6	
Dimensions (W*H*D)			590×750×205mm	
Weight			90kg	
Communication			CAN / RS-485 (Optional)	
Safety Regulation			IEC 62619:2017, IEC 62040:2017	
Transportation			UN38.3	
SYSTEM				
Operating Altitude			≤3000m (>3000m Derating)	
Relative Humidity			0~95% (No Condensing)	
Protection Degree			IP65	
Cooling			Natural Convection	
Noise			<30dB	
Warranty			5 years / 10 years	
EMC			IEC/EN 61000-6-1, IEC/EN 61000-6-2, IEC/EN 61000-6-3, IEC/EN 61000-6-4	

Note: Specifications are subjected to change without advance notice.