NEOVOLT

ENERGY STORAGE SOLUTION

STORAGE SYSTEM

PRODUCT MODEL

- BW-INV-SPH3.6K
- BW-INV-SPB5.0K
- BW-INV-SPH5.0K
- 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.

PARAMETERS

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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	
Max. Backup Power	7.36kVA/7.36kW	10kVA/10kW	10kVA/10kW
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%
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		CEI 0-21, VDE 4105-AR-N, VDE 0126-1-1, EN 50438, G99, G100, AS4777.2	
		NRS 097, EN 50549, C10/C11, UNE, UTE, NCRfG/PTPiREE	
Safety Regulation		IEC 62109-1&2,IEC 62477	
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, IEC 62040	
Transportation		UN38.3	
SYSTEM			
Operating Altitude		≤4000m	
Relative Humidity		0~95% (No Condensing)	
Protection Degree		IP65	
Cooling		Natural Convection	
Noise		<30dB	
Warranty		5 years / 10 years (optional)	
EMC		EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4	

Note: Specifications are subjected to change without advance notice.

SUZHOU BYTEWATT TECHNOLOGY CO., LTD
E-mail: info@byte-watt.com Web: www.byte-watt.com