



Single Phase

STORAGE SYSTEM

PRODUCT MODEL

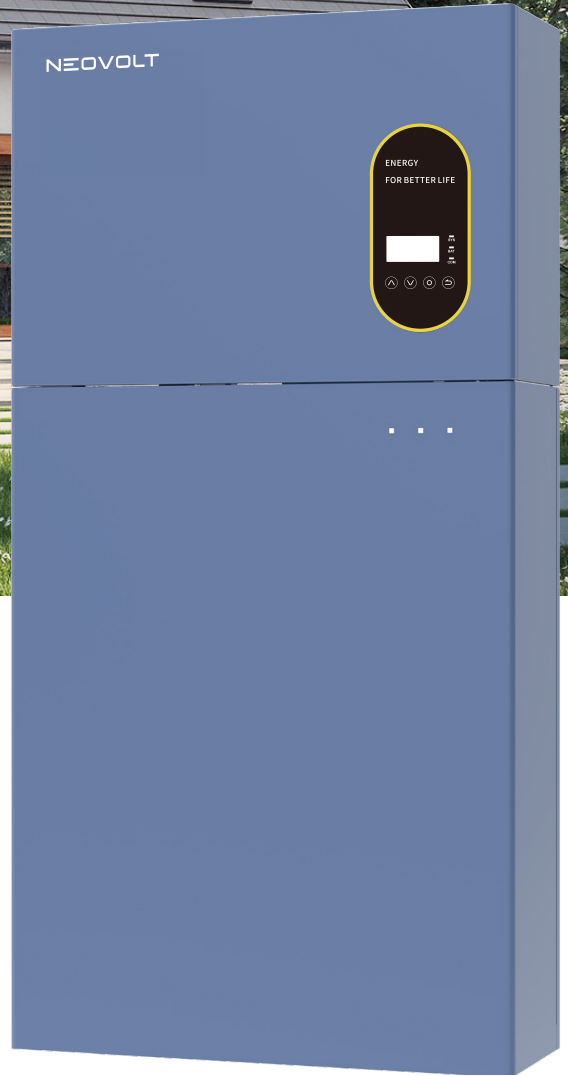
INVERTER

■ BW-INV-SPH5K

+

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.

INVERTER MODEL		BW-INV-SPH5K
PV INPUT		
Max. PV Input Power		10kW
Max. PV Input Voltage		580V
MPPT Range		100~550V
Max. Input Current		15A / 15A
Max. Short Circuit Current		18.75A / 18.75A
MPPT Trackers		2
Strings Per MPPT Tracker		1 / 1
AC PORT		
Rated Grid Output Power		5kVA / 4.6kVA(DE)
Max. Grid Input Power		10kVA
Rated Grid / Bscup Voltage		230Vac
Rated Grid / backup Frequency		50/60Hz
Surge Backup Power		10kVA / 10kW
Rated Backup Power		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%
Max. Round Trip Efficiency		90%
GENERAL DATA		
Operating Temperature Range		-20°C~60°C
Topology		Transformerless
Dimensions (W*H*D)		590×405×205mm
Weight		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°C<T<50°C / Discharge:-10°C<T<50°C
Cycle Lifetime		8000
Parallel / Series		1-6 in parallel
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 subject to change without advance notice.