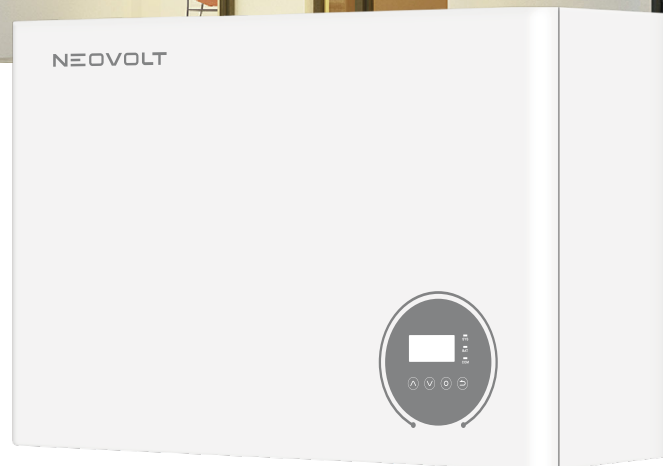


Single Phase

HYBRID INVERTER

PRODUCT MODEL

- BW-INV-SPH3.6K (Hybrid Inverter)
- BW-INV-SPH5K (Hybrid Inverter)
- BW-INV-SPB5K (Battery Inverter)



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-SPH3.6K	BW-INV-SPB5K	BW-INV-SPH5K
BATTERY PORT			
Battery Type	Li-on / Lead-acid		
Nominal Battery Voltage	96V		
Battery Voltage Range	80~400V		
Max. Charging Current	45A	60A	60A
Max. Discharging Current	45A	60A	60A
PV INPUT			
Max. PV Input Power	7.36kW	10kW	
Max. PV Input Voltage	580V	580V	
MPPT Range	100~550V	100~550V	
Startup Voltage	100V	100V	
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	
GRID PORT			
Rated Output Power	3.68kVA	5kVA / 4.6kVA(DE)	5kVA / 4.6kVA(DE)
Max. Output Current	16A	21.7A	21.7A
Max. Output Apparent Power	3.68kVA	5kVA / 4.6kVA(DE)	5kVA / 4.6kVA(DE)
Max. Input Power	7.36kVA	10kVA	10kVA
Rated Grid Voltage	230Vac		
Grid Voltage Range	180~270Vac		
Rated Grid Frequency	50/60Hz		
Power Factor	-0.8~+0.8		
THDi	<3%		
BACKUP PORT			
Surge Backup Power	7.36kVA	10kVA	10kVA
Rated Backup Power	3.68kVA	5kVA	5kVA
Rated Backup Voltage	230Vac		
Rated Backup Frequency	50/60Hz		
THDv	<3% (Linear Load) / <5% (Non-linear Load)		
DCV	<100mV		
Crest Ratio	3 : 1		
Transfer Time	<10ms		
EFFICIENCY			
Max. Efficiency	97.3%	97.3%	
Europe Efficiency	96.2%	96.2%	
MPPT Efficiency	99.9%	99.9%	
Max. Round Trip Efficiency	90%	90%	90%
GENERAL DATA			
Operating Temperature Range	-20°C~60°C		
Relative Humidity	0~95% (No Condensing)		
Operating Altitude	≤3000m (>3000m Derating)		
Cooling	Natural Convection		
Noise	<30dB		
Topology	Transformerless		
Dimensions (W*H*D)	590x405x205mm		
Protection Degree	IP65		
Weight	19.5kg	18kg	19.5kg
Warranty	10 Years		
HMI&COMM.			
Communication with BMS	CAN / RS-485		
Load Monitoring	Meter / CT / Backup box		
External Communication	RS-485 / WIFI / 4G / Ethernet		
User Interface	LED / LCD		
CERTIFICATE			
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		
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.