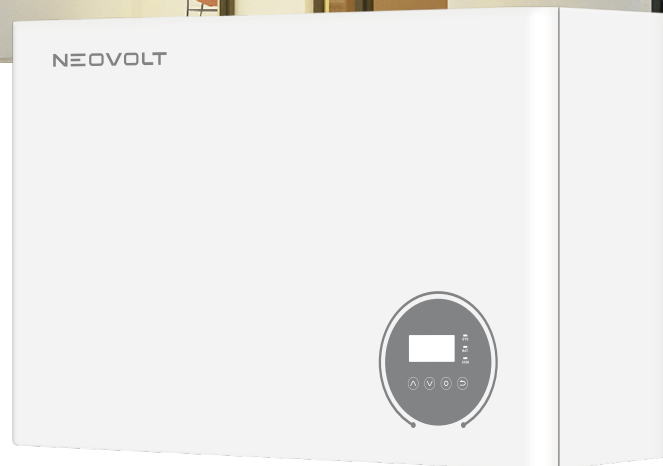


Single Phase

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	5 Years / 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.