

NEOVOLT

Three Phase

STORAGE SYSTEM

PRODUCT MODEL

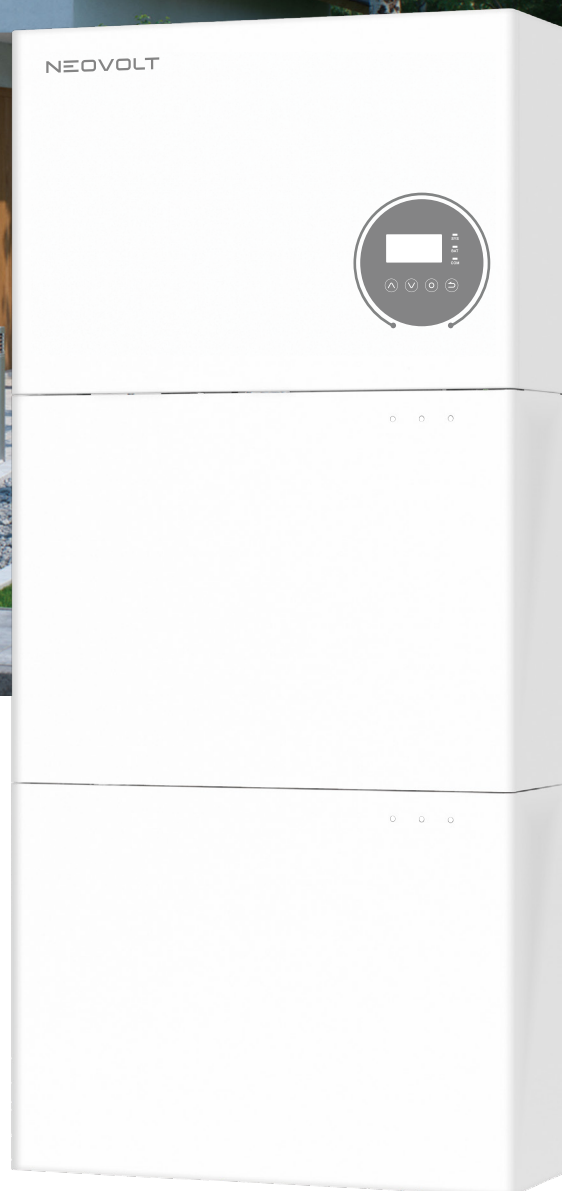
INVERTER

- BW-INV-TPH8K
- BW-INV-TPH10K
- BW-INV-TPH12K

+

BATTERY

- BW-BAT-4.8S



HIGH PERFORMANCE

- Up to 200% PV over management;
- 200% backup overload capacity, 50A battery current;
- Max. efficiency 98%, Battery efficiency 96%;
- 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-TPH8K		BW-INV-TPH10K		BW-INV-TPH12K	
PV INPUT						
Max. PV Input Power	16kW		20kW		22.5kW	
Max. PV Input Voltage			1100V			
MPPT Range			140~950V			
Max. Input Current			16A / 16A / 16A			
Max. Short Circuit Current			24A / 24A / 24A			
MPPT Trackers			3			
Strings Per MPPT Tracker			1 / 1 / 1			
AC PORT						
Rated Grid Output Power	8kVA		10kVA		12kVA	
Max. Grid Input Power	16kVA		20kVA		20kVA	
Rated Grid / Backup Voltage			220/380Vac, 230/400Vac, 3/N/PE			
Rated Grid / Backup Frequency			50/60Hz			
Surge Backup Power	16kVA / 16kW		20kVA / 20kW		24kVA / 24kW	
Rated Backup Power	8kVA		10kVA		12kVA	
THDi			<3%			
THDv			<3% (Linear Load) / <5% (Non-linear Load)			
DCV			<100mV			
Crest Ratio			3 : 1			
Transfer Time			<10ms			
EFFICIENCY						
Max. Efficiency			98.4%			
Max. Round Trip Efficiency			96%			
GENERAL DATA						
Operating Temperature Range			-25°C~60°C			
Topology			Transformerless			
Dimensions (W*H*D)			590×416×205mm			
Weight			29kg			
Load Monitoring			Meter / 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 50549-1/10			
Safety Regulation			IEC/EN 62109-1&2			
BATTERY MODEL			BW-BAT-4.8S			
Battery Type			LFP			
Battery Capacity			4.8kWh			
Usable Capacity			4.6kWh			
Depth Of Discharge (DoD)			96%			
Nominal Battery Voltage			96V			
Operating Voltage Range			90~108V			
Max. Charging Current			50A			
Max. Discharging Current			50A			
Operating Temperature Range			Charge:0°C<T<50°C / Discharge:-10°C<T<50°C			
Cycle Lifetime			8000			
Series / Parallel			1~6 In Series			
Dimensions (W*H*D)			590×430×205mm			
Weight			53.4kg			
Communication			CAN / RS-485 (Optional)			
Safety Regulation			IEC 62619:2022, IEC 62040:2017			
Transportation			UN38.3			
SYSTEM						
Operating Altitude			≤3000m (>3000m Derating)			
Relative Humidity			0~100% (No Condensing)			
Protection Degree			IP65			
Cooling			Natural Convection			
Noise			<30dB			
Warranty			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.