

Three Phase

STORAGE SYSTEM

PRODUCT MODEL

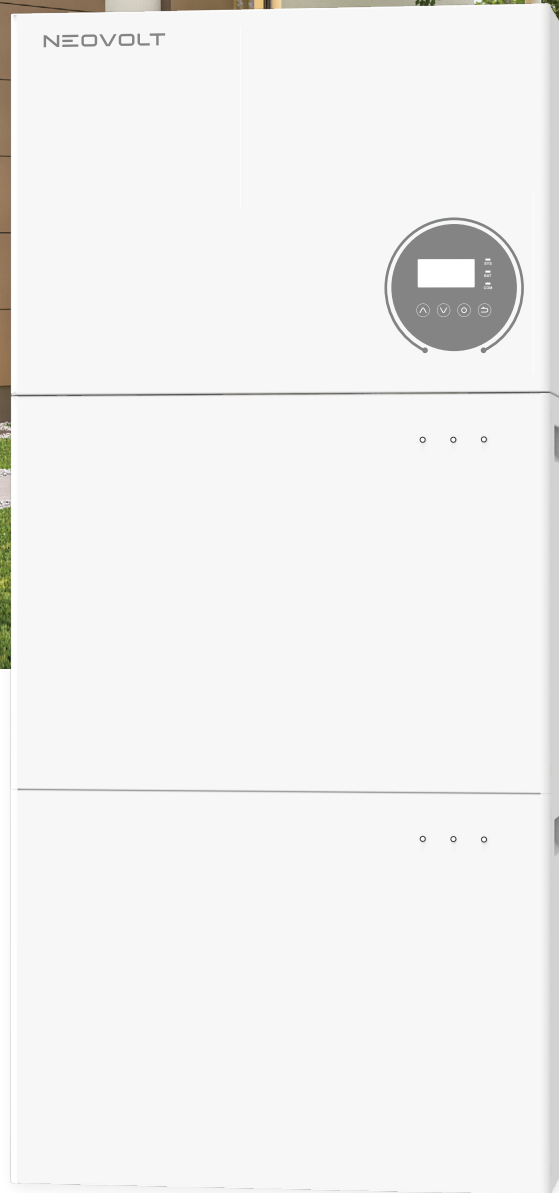
INVERTER

- BW-INV-TPH4K
- BW-INV-TPH5K
- BW-INV-TPH6K
- BW-INV-TPH8K
- BW-INV-TPH10K

+

BATTERY

- BW-BAT-4.8S / BW-BAT-9.6P



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-TPH4K	BW-INV-TPH5K	BW-INV-TPH6K	BW-INV-TPH8K	BW-INV-TPH10K
PV INPUT					
Max. PV Input Power	8kW	10kW	12kW	16kW	20kW
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	4kVA	5kVA	6kVA	8kVA	10kVA
Max. Grid Input Power	8kVA	10kVA	12kVA	16kVA	20kVA
Rated Grid / Backup Voltage	220/380Vac, 230/400Vac, 3/N/PE				
Rated Grid / Backup Frequency	50/60Hz				
Surge Backup Power	8kVA / 8kW	10kVA / 10kW	12kVA / 12kW	16kVA / 16kW	20kVA / 20kW
Rated Backup Power	4kVA	5kVA	6kVA	8kVA	10kVA
THDi	<3%				
THDv	<3% (Linear Load) / <5% (Non-linear Load)				
DCV	<100mV				
Crest Ratio	3 : 1				
Transfer Time	<10ms				
EFFICIENCY					
Max. Efficiency	98%	98%	98.2%	98.4%	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	INV-10 Years / BAT-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.