NEOVOLT

Three Phase

STORAGE SYSTEM

PRODUCT MODEL

INVERTER	■ BW-INV-TPH8K ■ BW-INV-TPH10K ■ BW-INV-TPH12K
+	
BATTERY	■ BW-BAT-4.8S

HIGH PERFORMANCE

- 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.

PARAMETERS

NEOVOLT

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	22.5kVA
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		-20°C~60°C	
Topology		Transformerless	
Dimensions (W*H*D)		590×416×205mm	
Weight		25kg	
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-4.8S
Battery Type	LFP
Battery Capacity	4.8kWh
Usable Capacity	4.6kWh
Depth Of Discharge (DoD)	95%
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 62619:2017, 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.

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