



# ALL-IN-ONE THREE PHASE HYBRID INVERTER+ BATTERY

BW-INV-TPH4K / BW-INV-TPH5K / BW-INV-TPH6K



## Easy Installation

Flexible configuration, plug and play set-up, built-in fuse protection.



## High Voltage

Includes high-voltage batteries for maximum round-trip efficiency.



## IP65 Rated

Engineered to last with maximum flexibility. Suitable for outdoor installation.



## Remote Monitoring

Monitor your system remotely via smart phone app or web portal.

## Minicube\_Three Phase All in one 4k 5k 6k

SYSTEM MODEL PV INPUT	BW-INV-TPH4K	BW-INV-TPH5K	BW-INV-TPH6K
		PV INPUT	
Max. PV Input Power	8kW	10kW	12kW
Max. PV Input Voltage		1100V	
MPPT Range		140~950V	
Max. Input Current		16A / 16A / 16A	
Max. Short Circuit Current		24A / 24A/ 24A	
MPP Trackers		3	
Strings Per MPP Trackers		1 / 1/ 1	
		AC PORT	
Rated Grid Output Power	4kVA	5kVA	6kVA
Max. Grid Input Power	8kVA	10kVA	12kVA
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
Rated Backup Power	4kVA	5kVA	6kVA
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%
Max. Round Trip Efficiency		96%	
		GENERAL DATA	
Operating Temperature Range		-20~60°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	
Safety Regulation		UNE 217002:2020, CEI 0-21, VDE 0126-1-1, NRS 097-2-1, AS/NZS 4777.2:2020, EN 50549-1	
		IEC/EN 62109-1&2, IEC/EN 62477-1:2012	
		BATTERY MODEL(BW-BAT-9.6P)	
Battery Type		LFP	
Battery Capacity		9.6kWh	
Usable Capacity		9.1kWh	
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<T<50°C / Discharge:-10<T<50°C	
Cycle Lifetime		8000	
Series/Parallel		1~6 in Parallel	
Dimensions (W*H*D)		590x730x205 mm	
Weight		86kg	
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	