



VA Series VA2000-B1/B2/B3/B4

MÄC VOLT has introduced a cutting-edge AC bidirectional micro energy storage system, designed for both on-grid and off-grid use. This efficient, smart, and versatile energy solution is ideal for DIY plug and play battery residential and small commercial applications, offering reliable backup power and optimized energy management across various usage scenarios.



Hybrid On-Grid/Off-Grid Functionality

Peak load shifting and UPS



AC Bidirectional Power Conversion

2000W Bidirectional Inverter



Easy Installation and Deployment

Plug-and-Play Design, Ground Installation



Versatile DC Power Supply

48V DC Expansion, Supports bidirectional charging and discharging



High-Efficiency Solar PV Input

Dual MPPT Technology, 2400W Solar Input



Smart Control and Monitoring

Advanced Control Module, Wi-Fi Connectivity



Power Controller
Model: VC 2000

Battery Module
Model: VB 2600

Base

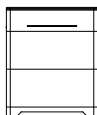
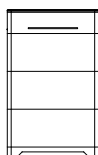
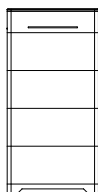


VA 2000-B1



Technical Specifications

VA2000

Model	VA2000-B1	VA2000-B2	VA2000-B3	VA2000-B4	
Data sheet					
	Capacity	2.56 kWh	5.12 kWh	7.68 kWh	10.24 kWh
	Dimensions (W x H x D mm)	470 × 415 × 260mm	470 × 643 × 260mm	470 × 871 × 260mm	470 × 1099 × 260mm
	Weight (kg)	46Kg	72Kg	98Kg	124Kg
	Battery Type	LiFePO4 (LFP)			
Battery Lifecycle	6000 Cycles(DOD≥70%)				
PV Input					
Power (W)	1200W * 2				
MPPT Number	2				
MPPT Voltage Range (V)	10~60V				
Rated Voltage (V)	35V				
Maximum Voltage (V)	60V				
Maximum Current (A)	34A				
Overvoltage Protection (V)	60.5V				
DC Battery					
Charge/Discharge Powert (W)	2150W				
Rated Voltage (V)	51.2V				
Rated Current (A)	42A				
On Grid					
Power (VA)	2000VA				
Voltage (V)	220/230V				
Maximum Current (A)	10A				
Frequency (Hz)	50Hz				
Overvoltage Protection (V)	264V				
Under Voltage Protection (V)	176V				
Power Factor	0.8 leading ... 0.8 lagging				
Short Circuit Protection	Yes				
Off Grid					
Power (VA)	2000VA				
Voltage (V)	220/230V				
Maximum Current (A)	10A				
Frequency (Hz)	50Hz				
Power Factor	0.8 leading ... 0.8 lagging				
Short Circuit Protection	Yes				
Expansion					
XT60 DC	48V/20A; Supports bidirectional charging and discharging				
Protections					
Insulation Monitoring	Yes				
DC Surge Protection	Yes				
Residual Current Monitoring	Yes				
General Data					
Charging Temperature (°C) ¹	0°C~50°C				
Discharging Temperature (°C) ²	-20°C~55°C				
Storage Temperature (°C) ³	-30°C to 60°C				
Dimensions (W x D x H mm)	470 × 260 × 123.5mm (VC2000)				
Weight (kg)	15Kg (VC2000)				
Dimensions (W x D x H mm)	470 × 260 × 63.5mm (Base)				
Weight (kg)	5Kg (Base)				
Enclosure rating	Outdoor IP65				
Relative humidity	5~100%, No condensing				
Max. operation altitude (m)	≤ 3000				
Courier transportation	Modular design; shipped separately; meets courier transportation requirements ≤ 30kg				
Integrated Wi-Fi	802.11 b/g/n, 2.4 GHz				
Monitoring	VIP Cloud				
Display	LED Indicators; APP				

*1 The temperature ranges provided are applicable to the internal battery module.

*2 Do not use the device outside the specified temperature range. Performance may vary with temperature. Refer to the user manual.

*3 Storing the device beyond the specified temperature range is prohibited. For detailed instructions, refer to the user manual.