



VA Series VA2000-B1/B2/B3/B4

VaySunic 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


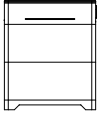
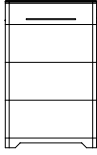
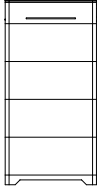


VA 2000-B1



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 Power (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.