

ALL-IN-ONE ESS HBP1900 VPM Series

3.5~5.5KW | 24V,48V | 3200Wh~5120Wh

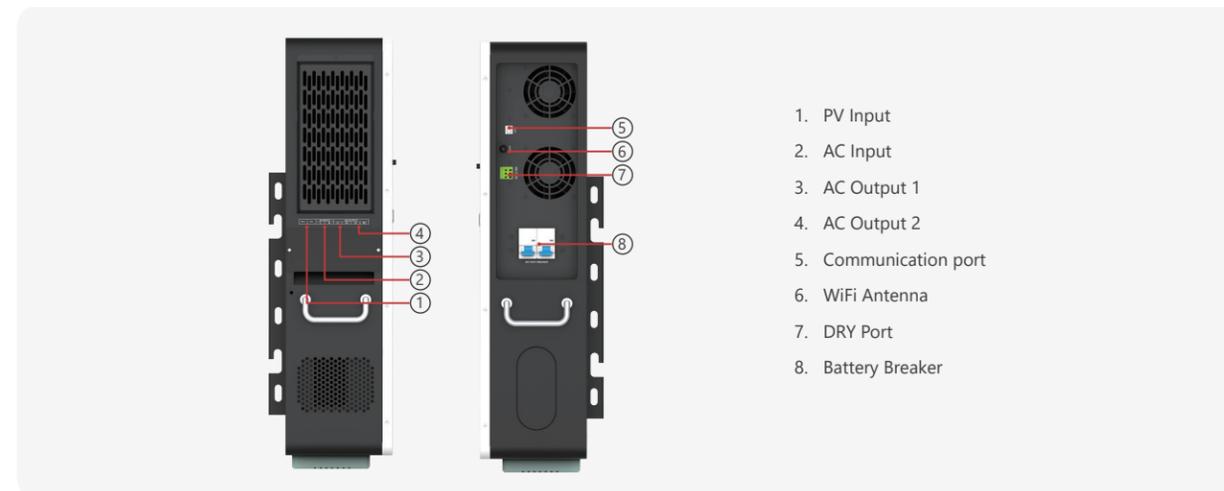
The HBP1900 VPM Series integrates a high-power inverter with a large-capacity lithium battery, offering both wall-mounted and floor-standing installation options to meet diverse application needs. Featuring a built-in intelligent management system, it ensures efficient energy distribution, extended battery lifespan, and safe, stable system operation. Ideal for residential and small commercial settings, it supports renewable energy integration, enabling energy savings and reliable backup power.



- Color display screen design
- High-power inverter with high-capacity A-grade lithium battery
- 6000+ Charge cycle @ 80% DOD,25°C
- Multiple design options: integrated wall-mounted and floor-standing type
- WiFi functionality: Built-in WiFi (for 3.5~5.5KW models)
- Rechargeable lithium battery using safe LiFePO4 (lithium iron phosphate) cells
- Equipped with Battery Management System (BMS)



Back panel description



Application



| MODEL | HBP19-3524 VPM | HBP19-5548 VPM |
|---------------------------------------|--|-----------------------------|
| Nominal Battery System Voltage | 24VDC | 48VDC |
| INVERTER OUTPUT | | |
| Rated power | 3500VA / 3500W | 5500VA / 5500W |
| Waveform | Pure sine wave | |
| AC Voltage Regulation (Batt.Mode) | 230VAC±5%(Setting) | |
| Inverter Efficiency(Peak) | 90~93% | |
| Transfer Time | 10ms (UPS / VDE4105) / 20ms (APL) | |
| AC INPUT | | |
| Voltage | 230VAC±5% | |
| Selectable Voltage Range | 170~280VAC(UPS) / 90~280VAC(APL) / 184~253VAC(VED4105) | |
| Frequency Range | 50Hz / 60Hz(Auto sensing) | |
| SOLAR CHARGER & AC CHARGER | | |
| Maximum PV Array Open Circuit Voltage | 400VDC | 450VDC |
| Maximum PV Input Current | 18A | 28A |
| Charging Algorithm | 4-Step (Li) | |
| Maximum PV Array Power | 4000W | 6000W |
| PV Array MPPT Voltage Range(Typ.) | 30~320VDC | 60~360VDC |
| Maximum Solar Charge Current | 100A | 100A |
| Maximum AC Charge Current | 60A | 100A |
| Maximum Charge Current | 100A | 100A |
| LITHIUM BATTERY | | |
| Energy | 3200WH | 5120WH |
| Nominal voltage | 25.6V | 51.2V |
| Battery capacity | 125Ah | 100Ah |
| Protection board | 150A | 100A |
| Standard charging & discharge current | 125A | 100A |
| Cycle life | 6000+ Charge cycle @ 80% DOD,25°C | |
| Operating temperature | Charge | 0~45°C |
| | Discharge | -10~60°C |
| MECHANICAL SPECIFICATIONS | | |
| Machine Dimension (W*H*D)(mm) | 486*640*160 | 486*850*160 |
| Package Dimension (W*H*D)(mm) | 740*260*600 | 950*260*600 |
| N.W(kg) | 41 | 58 |
| G.W(kg) | / | / |
| OTHER | | |
| Installation Mode | Wall-mounted/ Floor-mounted | Wall-mounted/ Floor-mounted |
| Humidity | 5% to 95% Relative humidity (Non-condensing) | |
| Storage Temperature | -10~45°C | |
| Communication Interface | USB/WIFI | |
| Standard Warranty | Inverter: 2 years ; Lithium battery: 5 years | |
| CERTIFICATION & STANDARDS | | |
| CE-EMC | | |

*The technical specifications of this document are subject to change without any notice