



ALL-IN-ONE ESS HBP1900 VPM Series

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

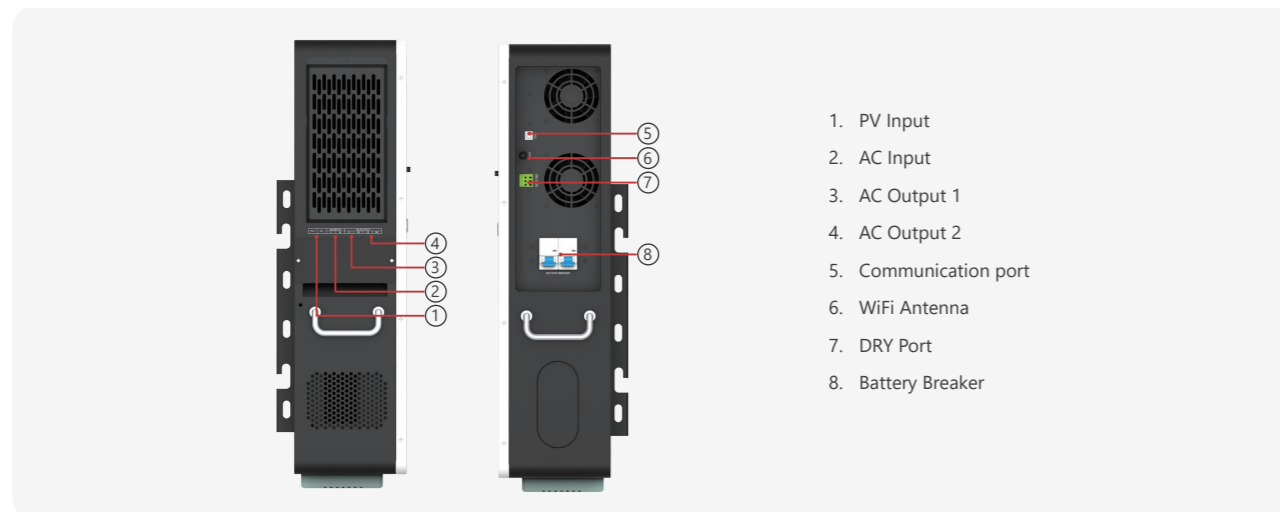
The HBP1900 VPM Series integrates a high-power inverter with a large-capacity lithium battery, offering both wall-mounted and floor-standing installation options to meet diverse application needs. Featuring a built-in intelligent management system, it ensures efficient energy distribution, extended battery 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