

PORTABLE SOLAR POWER STATION

HBP1800 OS Series

1.2~3KW | 12V,24V | 230V

The HBP1800 OS series is specifically designed for office use, providing a reliable and efficient power source. However, it is also versatile enough to power various household appliances, including phone, laptops, stereos, and desktop computers. Equipped with a built-in LiFePO4 battery, the HBP1800 OS has a capacity of either 1280~3072Wh, Multiple DC output ports for Multiple Devices, Plug & play, making it an ideal portable power station for a range of needs.



- Energy storage 1280~3072wWh Optional
- 6000+ Charge cycle @ 80% DOD,25°C
- 1~3KW Pure sine wave inverter
- Multiple DC output ports for Multiple Devices, Plug & play
- Flexible Recharging Ways (AC/ Solar)
- Built in Multi safety protection

Back panel description

● 1.2KW

1. LCD Screen

2. LED Light

3. Operation button

4. Power Switch

5. DC12V/1A output(5521) ×2pcs

6. USB-A 5V ×4pcs

7. USB TypeC (5V 2.1A)

8. Input breaker

9. USB port

10. AC input

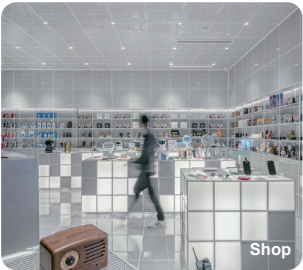
11. Wifi PORT

12. PV input

13. Battery protect

14. AC output ×3pcs

Application



MODEL		HBP18-1012 OS	HBP18-2024 OS	HBP18-3024 OS
Nominal Battery System Voltage		12VDC	24VDC	24VDC
INVERTER OUTPUT				
Rated power		1200W	2000W	3000W
Output voltage waveform		Pure Sine Wave		
Output voltage regulation		230V ±5%		
Output frequency		50Hz / 60Hz (±0.2Hz)		
Peak efficiency		90%		
Nominal DC input voltage		12V (±0.3)	24V (±0.3)	24V (±0.3)
Standby Consumption		< 25W		
PV INPUT				
Max solar power input		900W	1800W	1800W
PV max charging current		60A (±3A)	60A (±3A)	60A (±3A)
Combined charging current		70A (±4A)	70A (±4A)	80A (±4A)
Max efficiency		98.0% max		
PV array open circuit voltage		105VDC	160VDC	160VDC
PV Array MPPT Voltage Range		15~105V	30~128VDC	30~128VDC
AC INPUT				
AC input voltage		230Vac ±5%		
Acceptable input voltage range		90-280VAC		
Nominal input frequency		50Hz / 60Hz (Auto detection)		
Transfer time		10ms typical (UPS, VDE); 20ms typical (APL)		
AC CHARGE				
Charging current @ Nominal input voltage		20A (±4A)	40A/(±4A)	60A (±4A)
Charging Algorithm		4-step (Li)		
OUTPUT				
AC output		230Vac (Socket *3pcs)		
USB TypeC		DC output*1pcs		
USB-A 12V/1A		DC output*2pcs		
USB-A 5V		DC output*4pcs		
LITHIUM BATTERY				
Energy		1280Wh	2560Wh	3072Wh
Nominal voltage		12.8V	25.6V	25.6V
Battery capacity		100Ah	100Ah	120Ah
Protection board		100A	100A	150A
Standard charging & discharge current		50A	50A	50A
Operation temperature	Charge	0°C to 45°C		
	Discharge	-10°C to 60°C		
MECHANICAL SPECIFICATIONS				
Machine Dimension (W*H*D)(mm)		225*295*363	275*324*403	288*348*490
Package Dimension (W*H*D)(mm)		440*305*355	485*356*420	570*370*445
N.W(kg)		17	24	33
G.W(kg)		18.5	26	36
Standard Warranty		Inverter: 2 years ; Lithium battery: 5 years		
CERTIFICATION & STANDARDS				

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