

PORTABLE SOLAR POWER STATION

HBP1800 OS Series

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



High Capacity

1280~3072Wh capacity powers home and office devices with ease.

Long Life

Built-in LiFePO₄ battery with 6000+ cycles for long-lasting use.

Stable Power

1.2~3KW pure sine wave inverter delivers reliable power to devices.

Multi Ports

Multiple DC output ports, plug & play for powering multiple devices.

Flexible Charging

Supports AC and solar charging for convenient energy replenishment.

Multi Protection

Built-in protections including overcharge, deep discharge, overload, and short circuit.

MAIN PARAMETER

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)	100A (±4A)	120A (±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		

OTHER PARAMETER

MODEL	HBP18-1012 OS	HBP18-2024 OS	HBP18-3024 OS
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			
CE-EMC+LVD(EN6100-6-3;2007, EN6100-6-1:2017+EN IEC62109-1:2010, EN IEC62109-2:2011)			