

ALL-IN-ONE ESS

HBP1800 Series

1.2~4KW | 12V, 24V | 1280Wh~7168Wh

SHINEMANN HBP1800 series all-in-one energy storage solution, support 1.2~4KW output for different load appliances. It's based on the original cabinet design, stacked with solar energy storage lithium battery 1280wh~7168wh, and built in battery protection system, fully retain the use of load power in applications of residential, school, commercial and public utility area.



- 1.2~4KW Pure sine wave inverter
- Energy storage 1280wh~7168wh Optional
- 4000+ Charge cycle @ 80% DOD,25°C
- 24/7 Plug & play
- 11 Output ports for DC load
- Built in Multi safety protection

- Features higher capacities for greater compatibility with more power-hungry devices, and the latest in USB-C Power Delivery capable of charging larger USB devices like laptops.
- Includes pre-installed solar charging optimization module that functions as a maximum power point tracker (MPPT), resulting in up to 40% faster charge times.
- With LiFePO4 lithium cells, known for stability and safety, monitored by a state-of-the-art battery management system that prevents over-charge, over-current, and short circuiting.
- Built in Multi safety protection that include short circuit, overload and over-temperure and error code reporting.



MODEL		HBP18-1212	HBP18-2024	HBP18-3024		HBP18-4024
INVERTER						
Rated power		1200W	2000W	3000W		4000W
Surge power		2400W	4000W	6000W		8000W
Output voltage waveform		Pure sine wave				
Output voltage regulation		220~240Vac(setting)				
Output frequency		50Hz / 60Hz (±0.2Hz)				
Peak efficiency		90~93%				
Nominal DC input voltage		12Vdc (±0.3)	24Vdc (±0.3)	24Vdc (±0.3)		24Vdc (±0.3)
Standby Consumption		< 25W				
PV INPUT						
Max solar power input		900W	1800W	1800W		1800W
PV max charging current		60A (±3A)	60A (±3A)	60A (±3A)		60A (±3A)
Combined charging current		70A (±4A)	80A (±4A)	80A (±4A)		80A (±4A)
Max efficiency		98.0% max				
PV array open circuit voltage		105VDC	160VDC	160VDC		160VDC
PV Array MPPT Voltage Range		15~105V	30~128VDC	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)		60A (±4A)
Charging Algorithm		4-step (Li)				
OUTPUT						
AC output		230Vac (Socket *4pcs)				
Type-C		DC output*1pcs				
USB (5V 2.4A)		DC output*4pcs				
USB (12V 1A)		DC output*2pcs				
LITHIUM BATTERY						
Energy		1280Wh	2560Wh	3072Wh	7168Wh	7168Wh
Nominal voltage		12.8V	25.6V	25.6V		25.6V
Battery capacity		100Ah	100Ah	120Ah	280Ah	280Ah
Protection board		100A	100A	150A		150A
Standard charging & discharge current		50A	50A	50A	50A	50A
Operating temperature	Charge	0~45°C				
	Discharge	-10~60°C				
DIMENSION						
Machine Dimension (W*H*D)(mm)		359*499*234		420*497*280	460*539*411	460*539*411
Package Dimension (W*H*D)(mm)		460*560*335		522*655*382	570*702*521	570*702*521
N.W(kg)		21	30	36	66	67
G.W(kg)		26	41	45	80	81
Standard Warranty		Inverter: 2 years ; Lithium battery: 3 years				
CERTIFICATION & STANDARDS						

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