

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.



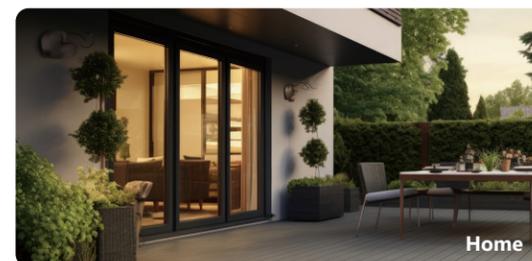
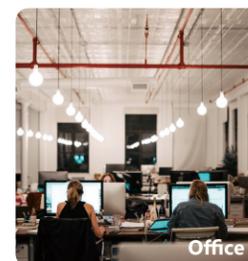
Includes pre-installed solar charging optimization module that functions as a maximum power point tracker (MPPT), resulting in up to 40% faster charge times.



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-temperature 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	25.6V
Battery capacity	100Ah	100Ah	120Ah	280Ah	280Ah
Protection board	100A	100A	150A	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					
CE-EMC+LVD (EN6100-6-3, EN6100-6-1+EN IEC62109-1, EN IEC62109-2); IEC62368-1					

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