SHINEMANN

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.

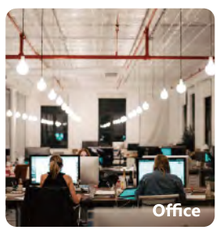
- 1.2~4KW Pure sine wave inverter
- Energy storage 1280wh~7168wh Optional
- 4000+ Charge cycle @ 80% DOD,25°C
- 24/7 Plug & play
- 11 Output ports for DC load
- Built in Multi safety protection

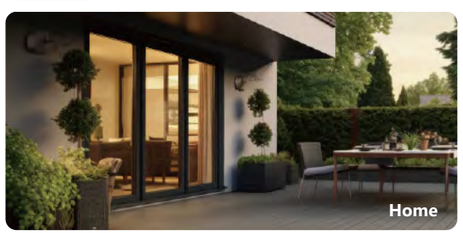
Features higher capacities for greater compatibility with more power-hungry devices, and the latest in USB-C Power Delivery capable of charging larger USB devices like laptops.

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-temperture 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			
Operating temperature – 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