

ALL-IN-ONE ESS
HBP1800 Series

1.2~10KW | 12V, 24V,48V | 1280Wh~15360Wh

SHINEMANN HBP1800 series is an integrated energy storage solution that supports 1.2~10KW output, compatible with a wide range of load appliances. It offers both all-in-one and stackable cabinet designs, and can be flexibly configured with solar lithium batteries ranging from 1280Wh to 15360Wh to meet diverse application needs. With a built-in battery protection system, it ensures efficient safe, and stable power supply for residential, educational, commercial, and public utility scenarios.



- Color display screen design (for 5.5~10KW)
- 1.2~10KW Pure sine wave inverter
- Energy storage 1280wh~15360wh Optional
- 6000+ Charge cycle @ 80% DOD,25°C
- 11 Output ports for DC load (for 1.2~3KW)
- Built in Multi safety protection
- Intelligent BMS system adopts the latest battery communication system
- External WiFi module for inverter (optional); Built-in WiFi module for lithium battery(for 5.5~10KW)



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.



Camping



Office



Shop



Home

MODEL		HBP18-1212	HBP18-2024	HBP18-3024	HBP18-5548	HBP18-8048	HBP18-10048
INVERTER							
Rated power		1200W	2000W	3000W	5500W	8000W	10000W
Surge power		2400W	4000W	6000W	11000W	16000W	20000W
Output voltage waveform		Pure sine wave					
Output voltage regulation		220~240Vac(setting)					
Output frequency		50Hz / 60Hz (±0.2Hz)					
Peak efficiency		90~93%				92%	
Nominal DC input voltage		12Vdc (±0.3)	24Vdc (±0.3)		48Vdc (±0.3)		
Standby Consumption		< 25W			< 30W		
PV INPUT							
Max solar power input		900W	1800W	1800W	6000W	4000W*2	5000W*2
PV max charging current		60A (±3A)	60A (±3A)	60A (±3A)	100A	120A	150A
Combined charging current		70A (±4A)	100A (±4A)	120A (±4A)	100A	120A	150A
Max efficiency		98.0% max					
PV array open circuit voltage		105VDC	160VDC	160VDC	450VDC	500VDC(single model)/ 450V(parallel model)	
PV Array MPPT Voltage Range		15~105V	30~128VDC	30~128VDC	60~360VDC	90~450VDC(single model)/ 90~430V(parallel model)	
AC INPUT							
AC input voltage		230Vac ±5%					
Acceptable input voltage range		90-280VAC			170~280VAC(UPS) / 90~280VAC(APL) / 184~253VAC(VED4105)		
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)	100A	120A	150A
Charging Algorithm		4-step (Li)					
OUTPUT							
AC output		230Vac (Socket *4pcs)			230Vac(Terminal)		
Type-C		DC output*1pcs			non		
USB (5V 2.4A)		DC output*4pcs			non		
USB (12V 1A)		DC output*2pcs			non		
LITHIUM BATTERY							
Energy		1280Wh	2560Wh	3200Wh	15360WH	15360WH	15360WH
Nominal voltage		12.8V	25.6V	25.6V	51.2V	51.2V	51.2V
Battery capacity		100Ah	100Ah	125Ah	300Ah	300Ah	300Ah
Protection board		100A	100A	150A	200A	200A	200A
Standard charging & discharge current		50A	50A	50A	200A	200A	200A
Cycle life		6000+ Charge cycle @ 80% DOD,25°C					
Operating temperature	Charge	0~45°C					
	Discharge	-10~60°C					
DIMENSION							
Machine Dimension (W*H*D)(mm)		359*499*234		420*497*280	Inverter: 600*180*470; Battery: 600*568*470		
Package Dimension (W*H*D)(mm)		460*560*335		522*655*382	Inverter: 627*252*585; Battery: 700*710*590		
N.W(kg)	Inverter	21	30	36	/	21	21
	Battery				/	/	/
G.W(kg)	Inverter	26	41	45	/	24	24
	Battery				/	/	/
Standard Warranty		Inverter: 2 years ; Lithium battery: 5 years					
CERTIFICATION & STANDARDS							

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