

ALL-IN-ONE ESS

HBP1800 Series

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



Wide Power Range

- Supports 1.2~10KW inverters with 12V, 24V, 48V systems.
- Color display available for 5.5~10KW models.

Multiple Output Ports

- 11 DC output ports for 1.2~3KW models.
- Power multiple devices simultaneously.

Smart Connectivity

- Optional external WiFi for inverter; built-in WiFi for 5.5~10KW batteries.
- Supports remote monitoring and management.

Flexible Energy Storage

- Optional 1280Wh~15360Wh batteries.
- Over 6000 cycles at 80% DOD (25°C).

Advanced Safety Protection

- Built-in protection against overcharge, over-discharge, short circuit, and overload.

Intelligent Battery Management

- Latest BMS with smart battery communication.

MAIN PARAMETER

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 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)		
DC output		Type-C*1pcs; USB (5V 2.4A)*4pcs; USB (12V 1A)*2pcs				non		
LITHIUM BATTERY								
Energy		1280Wh	2560Wh	3072Wh	7168Wh	15360WH	15360WH	15360WH
Nominal voltage		12.8V	25.6V	25.6V	25.6V	51.2V	51.2V	51.2V
Battery capacity		100Ah	100Ah	120Ah	280Ah	300Ah	300Ah	300Ah
Protection board		100A	100A	150A	150A	200A	200A	200A
Standard charging & discharge current		50A	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						

OTHER PARAMETER

MODEL		HBP18-1212		HBP18-2024		HBP18-3024		HBP18-5548		HBP18-8048		HBP18-10048	
MECHANICAL SPECIFICATIONS													
Machine Dimension (W*H*D)(mm)		359*499*234			420*497*280		460*539*411		Inverter: 600*180*470; Battery: 600*568*470				
Package Dimension (W*H*D)(mm)		460*560*335			522*655*382		570*521*702		Inverter: 627*252*585; Battery: 700*710*590				
N.W(kg)	Inverter	21	30	36	66	/		21		21			
	Battery					/		/		/			
G.W(kg)	Inverter	26	41	45	81	/		24		24			
	Battery					/		/		/			
Standard Warranty		Inverter: 2 years ; Lithium battery: 5 years											
CERTIFICATION & STANDARDS													
CE-EMC+LVD (EN6100-6-3, EN6100-6-1+EN IEC62109-1, EN IEC62109-2); IEC62368-1													