

ALL-IN-ONE ESS

HBP1800 ES Series

3.5~5.5KW | 24V, 48V | 5120Wh, 10240Wh

The HBP1800 ES energy storage system includes a 3.5kw or 5.5kw solar inverter and a lithium battery storage with optional energy ranging from 5120-10240Wh. This one-stop service system makes it more convenient for you to manage your solar home battery storage. Our flexible modular system can be designed based on your daily household energy consumption. This class-leading power station provides you with the power to run your daily household appliances, cabin workshops, or even provide power backup for your entire house for one or two days, depending on your demands. It's the perfect emergency energy solution for villas, apartments, hotels, and shopping centers.



- Self-consumption and feed-back to the grid
- Multiple Working Mode: Energy storage mode, load priority mode, power selling mode, and a high-efficiency mode
- Inside BMS,support to be charged and discharged according to bms requirements
- Support to connect with generator
- Automatic line-to-battery switch over



SAFE

Grade A LFP Battery,
Stable & Safe Smart Battery System



PRE-WIRED

Modular design,
Plug and play



WIFI MONITORING

Mobile APP monitoring



MODULAR DESIGN

Support 1 stacked ~ X stacked
energy storage



MODEL		HBP18-3524 ES	HBP18-5548 ES
Nominal Battery System Voltage		24VDC	48VDC
INVERTER OUTPUT			
Rated Power		3500VA / 3500W	5500VA / 5500W
Waveform		Pure Sine Wave	
Nominal Output Voltage RMS		230V	
Output Voltage Regulation		+10/-18%	
Output Frequency		50Hz / 60Hz ± 0.5Hz	
Inverter Efficiency (Peak)		>93%	
Typical Transfer Time		<10ms , 15ms max	
AC INPUT			
Voltage		230VAC	
Voltage Range		170~280VAC(UPS) / 90~280VAC(APL) / 184~253VAC(VED4105)	
Frequency Range		50Hz / 60Hz (Auto sensing)	
BATTERY			
Note: Below Parameters base on one LiFePO4 Lithium Battery Modular			
Battery		25.6VDC 200AH 5120/10240Wh	51.2VDC 100AH 5120/10240Wh
Low Battery Cutoff		22.4DC	44.8DC
Low Battery Alarm		23.4DC	46.8VDC
Low Battery Voltage Recover		24.4VDC	48.8VDC
High Voltage Alarm		29.0VDC	58.0VDC
High Battery Voltage Recover		29.6VDC	59.2VDC
SOLAR CHARGER & AC CHARGER			
Maximum PV Array Open Circuit Voltage		450VDC	
PV Array MPPT Voltage Range		150~430VDC	
Maximum Solar Charge Current		100A	120A
Maximum AC Charge Current		80A	100A
Maximum Charge Current		100A	120A
Charger Voltage		28.8VDC	57.6VDC
Charging Current		40A ± 2A	60A ± 2A
Overcharge Protection S.D.		31VDC	62VDC
OUTPUT			
AC Output		230Vac (Terminal)	
BYPASS & PROTECTION			
Nominal Input Frequency		50Hz or 60Hz	
Circuit breaker		FUSE	
Bypass breaker rating		32A	40A
MECHANICAL SPECIFICATIONS			
Machine Dimension (W*H*D)(mm) (Inverter+Battery)		596*1345*220	
Package Dimension (W*H*D)(mm)	Inverter	687*300*680	
	Battery (single battery)	660*285*490	
N.W(kg)	Inverter	20	22
	Battery (single battery)	48	48
G.W(kg)	Inverter	22	24
	Battery (single battery)	61	61
Standard Warranty		Inverter: 2 years ; Lithium battery: 5 years	
OTHER			
Operating Temperature Range		-10°C to 50°C	
Audible Noise		60dB MAX	
Display		LED+LCD	
Standard Warranty		2 year	
CERTIFICATION & STANDARDS			
EN/IEC62109-1, EN IEC62109-2			

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