

MUST

HOME SOLAR ENERGY STORAGE SOLUTION



HB1800 ES Series

HBP1800 ES energy storage system, including 3.5kw 5.5kw power inverter and a lithium battery storage with 5120-10240wh energy optional. It is a one-stop service system which could manage your solar home battery storage system more conveniently.

Flexible modular system could be designed based on house daily consumption. This class-leading power station brings you the power to run your daily consumes, family camping trip, cabin workshops, or even whole house for a day or two days power back up depending on your demands. The perfect emergency energy solution for villas, apartments, hotels, shopping centers.



SAFE

Grade A LFP Battery, Stable & Safe Smart Battery System



PRE-WIRED

Modular design, Plug and play



Mobile APP monitoring



MODULAR DESIGN

Support 2 stacked ~ 3 stacked energy storage

- + Rated power 3.5W / 5.5W
- Lithium Battery Modular 5120Wh
- + Double layers PCB board
- + Display accumulated working time
- + Auto restart while AC recovery
- + Overload & short-circuit protection, Battery reverse polarity protection, Deep discharge protection
- + Advanced technology optimizes battery life
- + Automatic line-to-battery switch over

HOME SOLAR ENERGY STORAGE SOLUTION HBP1800 ES SERIES



Specifications

Nominable Battery System Voltage	Model		HBP18-3524 ES	HBP18-5548 ES
Note Pure Sinte Wave Nominal Cutput Voltage RMS	Nominal Battery System Voltage		24VDC	48VDC
Nominal Output Voltage Regulation		Rated Power	3500VA / 3500W	5500VA / 5500W
Diverter Output Voltage Regulation		Waveform	Pure Sine Wave	
OUTPUT OUTPUT OUTPUT OUTPUT Frequency SOHz / 60Hz ± 0.5Hz		Nominal Output Voltage RMS	230V	
Invester Efficiency (Peak) \$85% Invester Efficiency (Peak) \$85% Line Mode Efficiency \$95% Typical Transfer Time \$10ms , 15ms max Voltage \$230VAC AC INPUT Voltage Range \$170~280VAC(UPD) / 190~280VAC(APL) / 184~253VAC(VED4105) Frequency Range \$50Hz / 60Hz / 4uto sensing) Requency Range \$50Hz / 60Hz / 4uto sensing) Requency Range \$50Hz / 60Hz / 4uto sensing) Battery \$25.6VDC 200AH 5120WH \$1.2VDC 100AH 5120WH Low Battery Cutoff \$23.2VDC \$46.4VDC Low Battery Voltage Recover \$25.6VDC 30Hz / 48.0VDC Low Battery Voltage Recover \$25.6VDC \$51.2VDC High Voltage Recover \$29.6VDC \$58.0VDC High Sattery Voltage Recover \$29.6VDC \$59.2VDC Charging Current \$40A ± 2A \$20A ± 2A Charging Time \$4~5 hours \$4~5 hours Overcharge Protection S.D. \$31VDC \$62VDC Dutput AC Output \$230Vac (Terminal) Nominal Input Frequency \$50Hz or 60Hz BYPASS \$0 Nominal Input Frequency \$50Hz or 60Hz BYPASS \$0 Nominal Input Frequency \$50Hz or 60Hz PROTECTION \$0 Nominal Input Frequency \$10A Max Bypass Current \$7A \$10A		Output Voltage Regulation	+10/-18%	
Line Mode Efficiency		Output Frequency	50Hz / 60Hz ± 0.5Hz	
Typical Transfer Time		Inverter Efficiency (Peak)	>85%	
Voltage		Line Mode Efficiency	>95%	
Note: Below Parameters base on one LIFePO4 Lithlum Battery Modular		Typical Transfer Time	<10ms , 15ms max	
Frequency Range S0Hz / 60Hz (Auto sensing)	AC INPUT	Voltage	230VAC	
Note: Below Parameters base on one LiFePO4 Lithium Battery Modular Battery 25.6VDC 200AH 5120WH 51.2VDC 100AH 5120WH Low Battery Cutoff 23.2VDC 46.4VDC Low Battery Cutoff 23.2VDC 48.6VDC Low Battery Voltage Recover 25.6VDC 51.2VDC High Voltage Alarm 29.0VDC 58.6VDC High Battery Voltage Recover 29.6VDC 59.2VDC High Battery Voltage Recover 29.6VDC 59.2VDC Charger Voltage Recover 29.8VDC 57.6VDC Charging Current 40A ± 2A 20A ± 2A Charging Time 4 - 5 hours 4 - 5 hours Overcharge Protection S.D. 31VDC 62VDC Output AC Output 230Vac (Terminal) BYPASS A		Voltage Range	170~280VAC(UPS) / 90~280VAC(APL) / 184~253VAC(VED4105)	
Battery		Frequency Range	50Hz / 60Hz (Auto sensing)	
Low Battery Cutoff	BATTERY	Note: Below Parameters base on one LiFePO4 Lithium Battery Modular		
BATTERY Low Battery Alarm 24.0VDC 48.0VDC 48.0VDC Low Battery Voltage Recover 25.6VDC 51.2VDC 51.2VDC Eligh Voltage Alarm 29.0VDC 58.0VDC 58.0VDC 59.2VDC 59.2VDC 59.2VDC 59.2VDC 59.2VDC 59.2VDC 59.2VDC 59.2VDC 59.2VDC 57.6VDC 59.2VDC 57.6VDC 59.2VDC 59		Battery	25.6VDC 200AH 5120WH	51.2VDC 100AH 5120WH
Low Battery Voltage Recover 25.8VDC		Low Battery Cutoff	23.2VDC	46.4VDC
High Voltage Alarm 29.0VDC 58.0VDC		Low Battery Alarm	24.0VDC	48.0VDC
High Battery Voltage Recover 29.6VDC 59.2VDC		Low Battery Voltage Recover	25.6VDC	51.2VDC
CHARGER Charger Voltage 28.8VDC 57.6VDC Charging Current 40A ± 2A 20A ± 2A Charging Time 4 ~ 5 hours 4 ~ 5 hours Overcharge Protection S.D. 31VDC 62VDC Output AC Output 230Vac (Terminal) Nominal Input Frequency 50Hz or 60Hz BYPASS PROTECTION Overload Protection (SMPS Load) Max Bypass Current 7A 10A Max Bypass Current 7A 10A MECHANICAL SPECIFICATIONS Shipping Dimensions (W*H*D) (mm) / Shipping Weight (kg) / / Operation Temperature Range -15*C to 40*C Audible Noise 60dB MAX Display LED+LCD		High Voltage Alarm	29.0VDC	58.0VDC
CHARGER Charging Current 40A±2A 20A±2A Charging Time 4 ~ 5 hours 4 ~ 5 hours Overcharge Protection S.D. 31VDC 62VDC Output AC Output 230Vac (Terminal) Nominal Input Frequency 50Hz or 60Hz BYPASS Overload Protection (SMPS Load) FUSE PROTECTION Output Short Circuit Protection 7A 10A Max Bypass Current 7A 10A MECHANICAL SPECIFICATIONS Shipping Dimensions (W*H*D) (mm) / Shipping Weight (kg) / / OPeration Temperature Range -15°C to 40°C Audible Noise 60dB MAX Display LED+LCD		High Battery Voltage Recover	29.6VDC	59.2VDC
CHARGER Charging Time 4 ~ 5 hours 4 ~ 5 hours Overcharge Protection S.D. 31VDC 62VDC Output AC Output 230Vac (Terminal) Nominal Input Frequency 50Hz or 60Hz BYPASS Overload Protection (SMPS Load) FUSE PROTECTION Output Short Circuit Protection 7A 10A Max Bypass Current 7A 10A Dimensions (W*H*D) (mm) / / Shipping Dimensions (W*H*D) (mm) / / Shipping Weight (kg) / / OPeration Temperature Range -15°C to 40°C Audible Noise 60dB MAX Display LED+LCD	CHARGER	Charger Voltage	28.8VDC	57.6VDC
Charging Time		Charging Current	40A ± 2A	20A ± 2A
Output AC Output 230Vac (Terminal) Nominal Input Frequency 50Hz or 60Hz BYPASS & Overload Protection (SMPS Load) FUSE PROTECTION Output Short Circuit Protection 7A 10A Max Bypass Current 7A 10A Dimensions (W*H*D) (mm) / / Shipping Dimensions (W*H*D) (mm) / / Shipping Weight (kg) / / / OTHER Audible Noise 60dB MAX Display LED+LCD		Charging Time	4 ~ 5 hours	4 ~ 5 hours
Nominal Input Frequency 50Hz or 60Hz		Overcharge Protection S.D.	31VDC	62VDC
BYPASS & PROTECTION Overload Protection (SMPS Load) FUSE Max Bypass Current 7A 10A MECHANICAL SPECIFICATIONS Dimensions (W*H*D) (mm) / Shipping Dimensions (W*H*D) (mm) / / Shipping Weight (kg) / / OPeration Temperature Range -15°C to 40°C Audible Noise 60dB MAX Display LED+LCD	Output	AC Output	230Vac (Terminal)	
PROTECTION Output Short Circuit Protection 7A 10A Max Bypass Current 7A 10A MECHANICAL SPECIFICATIONS Shipping Dimensions (W*H*D) (mm) / Shipping Weight (kg) / / Operation Temperature Range -15°C to 40°C Audible Noise 60dB MAX Display LED+LCD	&	Nominal Input Frequency	50Hz or 60Hz	
PROTECTION Output Short Circuit Protection 7A 10A Max Bypass Current 7A 10A MECHANICAL SPECIFICATIONS Dimensions (W*H*D) (mm) / / Shipping Dimensions (W*H*D) (mm) / / Shipping Weight (kg) / / Operation Temperature Range -15°C to 40°C Audible Noise 60dB MAX Display LED+LCD		Overload Protection (SMPS Load)	FUSE	
Dimensions (W*H*D) (mm)		Output Short Circuit Protection	7A	10A
MECHANICAL SPECIFICATIONS Shipping Dimensions (W*H*D) (mm) / <th< td=""><td>Max Bypass Current</td><td>7A</td><td>10A</td></th<>		Max Bypass Current	7A	10A
Shipping Dimensions (W*H*D) (mm)		Dimensions (W*H*D) (mm)	I	
Operation Temperature Range15°C to 40°C Audible Noise 60dB MAX Display LED+LCD		Shipping Dimensions (W*H*D) (mm)		1
Audible Noise 60dB MAX Display LED+LCD		Shipping Weight (kg)	1	1
OTHER Display LED+LCD	OTHER	Operation Temperature Range	-15℃ to 40℃	
Display LED+LCD		Audible Noise	60dB MAX	
Standard Warranty 2 year		Display	LED+LCD	
		Standard Warranty	2 year	

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