

ALL-IN-ONE ESS

HBP1800 LV Series

3KW | 48V | AC120V | 12800Wh

HBP1800 LV energy storage system ESS solution, including 3kw 48vdc solar inverter and a lithium battery storage with 9.6kwh energy optional. it is a one-stop service system can manage your solar home battery storage system more conveniently. Flexible modular system can be designed based on house daily consumption. The perfect emergency energy solution for villas, apartments, hotels, shopping centers.



- Stacked movable energy storage systems
- Rechargeable lithium batteries use safe lithium cell LiFePO4
- The intelligent BMS system adopts the latest battery communication system
- Reduce electricity bills and increase your energy needs for electrical self-sufficiency.



Back panel description

1. Communication port

2. USB port

3. DRY port

4. WIFI port

5. AC input

6. AC output

7. PV input

8. Battery input

9. Power on/off switch

10. Parallel switch (optional; only for parallel model)

11. Parallel communication port (optional; only for parallel model)

12. Circuit breaker

13. BAT+ (battery mode)

14. Power on/off switch

15. RST port

16. DRY port

17. RS485 communication port

18. CAN port

19. RS232 communication port

20. Parallel port

21. WiFi antenna

22. BAT- (battery mode)

Application



MODEL		HBP18-3048 LV
INVERTER		
Rated power		3000W
Output voltage waveform		Pure sine wave
Output voltage regulation		(100Vac-120Vac)±5%
Output frequency		50Hz or 60Hz (±0.2Hz)
Peak efficiency		93%
Nominal DC input voltage		48Vdc
Standby Consumption		<25W
PV INPUT		
Max solar power input		3000W
PV max charging current		80A
Combined charging current		140A
Max efficiency		98.0% max
PV array open circuit voltage		250Vdc
PV Array MPPT Voltage Range		60~200Vdc
AC INPUT		
AC input voltage		120Vac ±5%
Acceptable input voltage range		90~145VAC(UPS), 60~145VAC(APL), 107~132VAC(VDE4105)
Nominal input frequency		50Hz / 60Hz (Auto detection)
Transfer time		10ms typical (UPS, VDE); 20ms typical (APL)
AC CHARGE		
Charging current @ Nominal input voltage		60A
Charging Algorithm		4-step (Li)
OUTPUT		
AC output		Terminal
LITHIUM BATTERY		
Energy		14336Wh
Nominal voltage		51.2V
Battery capacity		280Ah
Standard charging and discharge current		100A
Maximum continuous charging & discharge current		100A
Operation ambient temperature		-10~50°C
Storage ambient temperature		-20~55°C
DIMENSION		
Machine Dimension (W*H*D)(mm) (Inverter+ Battery)		540*715*498
Package Dimension (W*H*D)(mm)	Inverter	627*252*585
	Battery	630*695*600
N.W(kg)	Inverter	17
	Battery	115
G.W(kg)	Inverter	28
	Battery	135
Standard Warranty		Inverter: 2 years ; Lithium battery: 5 years
CERTIFICATION & STANDARDS		
CE-EMC		

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