

HOME SOLAR ENERGY STORAGE SOLUTION

# HBP1100 PRO Series



3.6~6KW | 5120Wh/10240Wh/15360Wh | PV 500V

HBP1100 PRO energy storage system is an all-in-one solution, which integrated a hybrid solar inverter & lithium battery in to one unit. This model combines functions both off grid and on grid which could manage your solar home battery storage easily. Flexible modular system could be designed based on house dailyconsumption. ESS is easily to select the priority of power supply, it allows you to store the energy to self-consumption and sell to the grid. ESS is the best emergency energy solution for villas, apartments,hotels,shopping centers.



- Rated power 3.6~6KW
- Lithium Battery Modular 5120Wh/10240Wh/15360Wh
- 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 (six time periods are provided for setting different modes to achieve peak-shaving and valley-filling, maximizing economic benefits)
- Inside BMS,support to be charged and discharged according to bms requirements
- Support to connect with generator
- Automatic line-to-battery switch over



**MODULAR DESIGN**  
Support 1~3 stacked energy storage



**WIFI MONITORING**  
Mobile APP monitoring



**PROTECTION RATING**  
IP66 Dust-proof and water-proof



**SAVE MONEY**  
Peak shaving and valley filling

Application



MODEL	HBP11-3648 PRO		HBP11-4048 PRO		HBP11-4648 PRO		HBP11-5048 PRO		HBP11-6048 PRO		
Rated power	3600W		4000W		4600W		5000W		6000W		
Nominal Battery System Voltage	48V										
PV INPUT(DC)											
Maximum recommended DC power	4000W		5000W		5500W		6000W		7000W		
Nominal DC operating voltage	360V										
Maximum DC voltage	500V										
MPPT voltage range	120V~500V										
Maximum input current	15A / 15A										
No.of MPP tracker	2										
Strings per MPP tracker	1										
INVERTER OUTPUT(AC)											
Nominal AC output power	3600W		4000W		4600W		5000W		6000W		
Nominal output voltage; range	220/230/240V;180-280V										
AC grid frequency; range	50/60Hz; 45~55/55-65Hz										
Nominal output current	15.6A		17.5A		20A		21.7A		26A		
Maximum output current	16A		18.1A		20.8A		22.7A		27.2A		
Inrush current (spike/duration)	57.5A/5.2us										
Total harmonic distortion i(THDi)	<3%										
Power factor at rated power	1										
Displacement power factor	0.8leading~0.8lagging										
Grid type	Single phase										
BATTERY MODE OUTPUT(AC)											
Output Rated Power	3600W		4000W		4600W		5000W		6000W		
Nominal output voltage; accuracy range	230±1%										
Output ferequency; accuracy range	50/60Hz (optional)±0.2%										
Output rated current	15.6A		17.5A		20A		21.7A		26A		
Output waveform	Pure sine wave										
Peak power	5400W,10s		6000W,10s		6900W,10s		7500W,10s		9000W,10s		
Total harmonic distortion (linear load)	<3%										
BATTERY & CHARGER											
Note: Below Parameters base on one LiFePO4 Lithium Battery Modular											
Battery parameter	51.2VDC 100Ah										
Number of battery pack	1	2	1	2	2	3	2	3	2	3	
Capacity	5120Wh	10240Wh	5120Wh	10240Wh	10240Wh	15360Wh	10240Wh	15360Wh	10240Wh	15360Wh	
Charging curve	3-stage adaptive with maintenance										
Protection	Over-current protection / Over-temperature protection										
Maximum charging power	3600W		4000W		4600W		5000W		6000W		
Maximum charging current	75A		85A		95A		100A		125A		
EFFICIENCY											
Maximum efficiency	97.1%										
Euro-efficiency	96.5%										
MPPT efficiency	99.8%										
PROTECTION DEVICES											
DC switch rating for each MPPT; Grid monitoring; Output over current protection; Output overvoltage protection-varistor; Ground fault monitoring; Integrated all-pole sensitive leakage current											
MECHANICAL SPECIFICATIONS											
Machine Dimension (W*H*D)(mm) (Inverter+Battery)		594*1154*220(5120Wh); 594*1559*220 (10240Wh); 594*1964*220 (15360Wh)									
Package Dimension (W*H*D)(mm)	Inverter	900*335*714									
	Battery	666*280*483 (Single Battery)									
N.W(kg)	Inverter	42									
	Battery(51.2V100Ah)	52									
G.W(kg)	Inverter	55									
	Battery(51.2V100Ah)	57									
Standard Warranty		Inverter: 5 years ; Lithium battery: 5 years									
OTHER											
Operating Temperature Range		-15°C to 40°C									
Ingress protection rating		IP66									
Audible Noise		60dB MAX									
Display		LED+LCD									
CERTIFICATION & STANDARDS											
CE-EMC											