

ALL-IN ONE BATTERY ESS



BND-AIO40-80HFSP

- **Easy Installation**
 - One-person installation
 - Easy power output expansion
 - Without cable connection, plug in & out
- **Safety and Reliability**
 - High cycle stability and long lifespan
 - Whole system warranty
- **Smart O&M**
 - Auto under-voltage wakeup
- **Product feature**
 - With WiFi module, Bluetooth module,
- **Compact in size**
 - Featuring a four-wheel design, equipped with AC output, suitable for both home and outdoor use.

Model	BND-AIO40-80HFSP		
Main Parameter			
Battery Chemistry	LiFePO ₄		
Capacity(Ah)	314		
Nominal Voltage (V)	25.6		
Operating Voltage(V)	21.6~28.8		
Energy (kWh)	8		
Charge/	Recommend	100	
Discharge	Max.	200	
Current (A)	Peak	220 (30s,25°C)	
Dimension (mm)	430*410*380		
Weight Approximate(kg)	~72		
Master LCD Indicator	LCD(Power,Voltage,Current,Battery bar display) 2LED(working,alarming)		
IP Rating of Enclosure	IP21		
Operating Temperature	Charge:0~+55°C/Discharge:-20°C~+55°C		
Storage Temperature	0°C~+35°C		
Humidity	5%~95%		
Altitude	≤2000m		
Cycle Life	≥6000(25°C±2°C,0.2C/0.2C,70%EOL)(DOC80%)		
Installation	Floor standing		
Communication Port	RS485,RS232		
Warranty Period	5 years		
Certification	UN38.3,CE		
Inverter Specification			
Input	Phase	L+N+PE	
	Nominal Voltage	220/230/240VAC	
	Voltage Range	90~280VAC±3V(Normal Mode)170~280VAC±3V(UPS Mode)	
	Frequency Range	50Hz/60Hz(Adaptive)	
	Rated Power	4000W(BAT)/4500W(PV)	
	Output Voltage(AC)	220/230/240VAC±5%	
	Output Frequency	50/60Hz±0.1%	
Output	Waveform	PURE SINE WAVE	
	Transfer Time(Optional)	≤10ms(UPS mode)/≤20ms (INV mode)	
	Peak power	8000VA	
	Overload	Battery Mode:	
			1min@102%~110% Load
		11s@105%~150% Load	
		2s@150%~200% Load	
	400ms@>200% Load		
Peak efficiency (battery mode)	>94%		
charger	PV charging method	MPPT	
	PV max input power	6500W	
	MPPT tracking range	60~500VDC	
	Max PV input voltage	500Vdc	
	Max PV charging current	120A	
	Max AC charging current	100A	
Display	Max charging current	120A	
	LCD display	Operating mode/load/input/output, etc.	
Environmental parameters	Operating environment temperature	-10~50°C	
	Operating environment humidity	20%~95% (Non condensing)	
	Storage temperature	-15~60°C	
	Altitude	The altitude should not exceed 1000m, derating above 1000m, up to 4000m	
Certification	noise	≤50db	
		EN-IEC 60335-1, EN-IEC 60335-2-29, IEC 62109-1	