



Lunergy Hub 2400 AC + BP5200 2.4kW/5.22kWh



Bidirectional inverter



Active Cooling



IP65 outdoor protection



<10 ms UPS backup



Plug-and-play



Expandable from 5kWh to 78 kWh
2.4kW to 12kW

Specification

Model		Lunergy Hub 2400 AC
Rating	2400VA/2400W	
Peak power	4800W	
Machine architecture	Bidirectional AC/DC Inverter/Lift Voltage MPPT	
Exports		
Rated voltage	220/230/240Vac	
Output frequency	50/60Hz±0.1%	
Output Waveforms	pure sine Wave	
THDV%	<2% (linear load) / <7% (non-linear loads)	
Overload capacity	5 minutes @ 102%~120% / 10s@120%~150% / 5S@>150%	
Efficiency		
Mains charging (AC-battery)	93%	
Battery discharge(battery-AC)	92%	
RTE	86%	
Input(grid)		
Input Voltage Range	184Vac~253Vac	
Input frequency range	48Hz~51Hz	
Input power factor	≥0.95	
Battery charging		
Charge control method	Precharge, Constant Current, Constant Voltage, Equalisation, Float,ShutdoWn	
Charge Abort Voltage	56.8V / continuously adjustable	
Discharge Abort Voltage	44V / continuously adjustable	
Charging current	Max. 40A, default 25A	
Precharge current	1.5A	
Interface		
APP	Mobile App for mode scheduling (on-/off-grid), time and powercontrol.	
Communication interface	Switching command interface,RS485	
Environmental parameters		
Operating temperature	-20~55℃	
Operating humidity	0-98%(no condensation)External	
Heat dissipation method	Active Cooling with Fan	
Noise (dB,@1 m)	<45dB	
Protection class	IP65	
Protection	Overcharge ,Overdischarge ,Overcurrent ,Shortcircuit ,Overtemperature	
Structural shape		
Product Dimensions (mm)	530mm*360mm*156mm	
Packaging Dimensions (mm)	630mm*440mm*295mm	
Net Weight (kg)	12.1kg	
Gross Weight (kg)	15kg	
Warranty		
Warranty Period	10 years	

Specification

Model	Lunergy BP5200
Case design	stackable
Battery Type	LiFePO4
Normal Battery Voltage (Vdc)	51.2V
Normal Capacity (25°C 0.2C)(Ah)	102Ah
Normal Capacity (25°C 0.2C)(Ah)	5220Wh
Float Charge Voltage (Vdc)	56.0V
Operation Voltage range (Vdc)	40.0~58.4V
Max Continuous Charge Current (A)	50A
Max Continuous Discharge Current (A)	100A
Max Pulse Discharge Current (A)	150A 1Sec
Terminal	M6
Storage temperature	0°C~30°C
IP degree	IP65
Storage duration	6 months at 25°C
Safety standard	UN38.3,MSDS
Display(Optional)	LCD
Communication	CAN,RS485
Protection	
Protect	Overcharge Protection, Over Discharge Protection, Over-Current Protection, Short Circuit Protection, Over Temperature Protection
Environment	
Working Temperature	-10°C~+50°C
Humidity	0~95%(no condensation)
Sea Level(m)	≤1500
Structural shape	
Product Dimensions (mm)	530mm*360mm*224mm
Packaging Dimensions (mm)	630mm*440mm*295mm
Net Weight (kg)	44.4kg
Gross Weight (kg)	46.4kg
Warranty	
Warranty Period	10 years