



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°C
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