



51.2V 127Ah



6500Wh

51.2V 127Ah 6.50kWh

The B-LFP48-127E is a 51.2 Volt, 6.50 kWh rack home battery for solar energy storage systems using the safest lithium ion chemical, lithium iron phosphate (LiFePO₄), a flexible, scalable (up to 30 batteries can be used simultaneously to provide additional energy storage capacity) lithium battery storage solution designed for home solar power systems.



Modular and scalable



Max. 30 in parallel



Better price, bigger capacity



10-year warranty & technical support



Max stack - 6 modules per base



For on-grid and off-grid



UL Standard Battery Pack



High cycle life and deep cycle capability



Safe and reliable LiFePO₄

Item	General Parameter	
Model	B-LFP48-127E	
Battery Type	L iFe PO4	
Nominal Voltage (V)	51.2	
Nominal Capacity (Wh)	6500	
Usable Capacity (Wh)	6175	
Cell & Method	16S1P	
Dimension (mm) (L*W*D)	483 (442) *500 *222	
Weight (Kg)	55 ± 3%	
Discharge Voltage (V)	47	
Charge Voltage (V)	55	
Charge	Max. Current / Power	160A / 8.192kW
Discharge	Max. Current / Power	200A / 10.240kW
	Recommend Current / Power	127A / 6.502kW
Communication	RS232, RS485, CAN, WIFI (Optional), Bluetooth (Optional)	
Depth Of Discharge (%)	80%	
Expansion	Up to 30 units in parallel	
Working Temperature	Charge	0~55℃
	Discharge	-20~55℃
Storage Temperature	0~35℃	
Cooling Type	Natural Convection	
Protection Level	IP20	
Monthly Self-Discharge	≤ 3%/month	
Humidity	≤ 60% ROH	
Altitude (m)	< 2000	
Warranty	10 Years	
Design Life	> 10 Years (25℃ / 77°F	
Cycle Life (25 ± 2℃)	>4000 cycles, 80% DOD	
Certification & Safety Standard	UN38.3	