

LiFePO₄ Battery



Up to
10 Years
Design Life

Zero
Maintenance

>6,000
Life Cycles

IP65
Rating

Scalable capacity to fit your power needs

8 In Parallel
Maximum

40 kWh In Parallel
Maximum



Technical Specifications



Model	XBmax 5.1L	XBmax 5.1L-24
Rated voltage (cell 3.2 V)	51.2 V	25.6 V
Rated capacity (@ 0.5C, 77°F/ 25°C)	100 Ah	200 Ah
Maximum voltage (cell 3.65 V)	58.4 V	29.2 V
Minimum voltage (cell 2.5 V)	40 V	20 V
Standard capacity (@ 0.5C, 77°F/ 25°C)	≥ 5.12 kWh (support parallel connection up to 8 pcs)	
Continuous discharge / charge current (@ 77°F/ 25°C, SOC 50%, BOL)	100 A / 50 A	200 A / 100 A
Cooling mode	Natural (passive) cooling	
Working range of SOC	5% - 100%	
Ingress protection rating	IP65	
Life cycle (@ 77°F/ 25°C, 0.5C charge, 1C discharge, DoD 50%)	> 6,000	
Remaining capacity at the end of life (according to warranty period, driving pattern, temp. profile, etc)	EOL 70%	
Operating temperature	Charging / Discharging temperature: -4 °F ~ 131°F (-20°C ~ 55°C)	
Storage temperature	Short-term (within one month): -4 °F ~ 131°F (-20°C ~ 55°C)	
	Long-term (within one year): 32 °F ~ 95°F (0°C ~ 35°C)	
Dimensions (L x W x H)	20.15 x 14.88 x 8.26 inch (512 x 378 x 210mm)	
Weight	99.2 lbs (45 kg)	

Note: 1. Only authorized personnel are allowed to operate or make adjustments to the batteries

2. All data are based on ROYPOW standard test procedures. Actual performance may vary according to local conditions

3. 6,000 cycles achievable if the battery is not discharged below 50% DOD. 3,500 cycles at 70% DoD

