

LiFePO₄ Battery

Reliable Power for Your Journey

Travel to the most beautiful places with RoyPow LiFePO₄ batteries that are built tough to withstand the most rugged conditions so you can spend more time enjoying the great outdoors and less time worrying about power.



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

Advantages



Ultra Safe

Multiple protections, thermal & chemical stability



Long Runtime

Longer service life; consistent high performance



High Reliability

Automotive grade lithium ferro-phosphate cells (LiFePO₄ cells)



Maintenance Free

No filling of distilled water; no frequent battery replacements



Fast Charging

Can be charged much faster than traditional lead-acid batteries



More Durable

Engineered to resist vibration & shock



Light Weight

Space & weight saving, easy to stack and store



Wide Working Temperature Range

Discharge at -4°F - 131°F (-20°C - 55°C)

! Tips: Why Choose LiFePO₄ Batteries For RVs?

Except providing longer life, LiFePO₄ batteries have higher energy density and are more stable and reliable. They are environmentally "green" and lightweight to reduce the overall weight.



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



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