

LiFePO₄ Battery - More Power, Less Weight



High energy storage capacity of ROYPOW LiFePO₄ battery meets the power requirements for sleeper cabs without needing to idle, greatly saving the fuel, money and time.



Long-lasting, Long Runtime

- ✓ Up to 10 years battery life
- ✓ >6,000 life cycles
- ✓ Withstand the rigors and abuse of a deep discharge



Zero Maintenance

- ✓ No regular filling of distilled water
- ✓ Saving costs on labor and maintenance
- ✓ No frequent battery replacements



Ultra-safe, Ensures Peace of Mind

- ✓ Automotive-grade lithium iron phosphate cells (LiFePO₄ cells)
- ✓ More thermal & chemical stability
- ✓ Engineered to resist vibration & shock

! Tips: Why choose LiFePO₄ batteries for trucks?

Except for 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 on the truck.



Technical Specifications



Battery system specifications

C48230A

Configuration		14S1P
Rated capacity (@ 0.5C, 77°F/ 25°C)		230 Ah
Rated voltage (cell 3.2 V)		44.8 V
Maximum voltage (cell 3.65 V)		51.1 V
Minimum voltage (cell 2.5 V)		35 V
Standard capacity (@ 0.5C, 77°F/ 25°C)		≥ 10.3 kWh
SOC status before shipment		SOC 30% ± 3%
Self-discharge rate (@SOC 100%, 77°F/ 25°C, Loss/Month, @BOL)		Max.3%
Safe reliability (Cell)		GBT Certified
Insulation resistance (@77°F/ 25°C ± 41°F/ 5°C, RH 50%)		Min 20 M / 1,000Vdc
Cooling mode		Natural (passive) convection
Working range of SOC		5% - 100%
Protection rating		IP65
Life cycle (@77°F / 25°C, 0.5C charge, 1C discharge, DoD > 50% (SOC 30 - 100%))		6000*
Remaining capacity at the end of life (according to warranty period, driving pattern, temp. profile, etc)		EOL 70%
Operating temperature	Charging working temperature	-4°F ~131°F (-20°C ~ 55°C) (under heating state)
	Discharge working temperature	-4°F ~131°F (-20°C ~ 55°C)
Storage temperature	Short-term (within one month)	-4°F ~ 113 °F (-20°C ~ 45°C)
	Long-term (within one year)	32°F ~ 95°F (0°C ~ 35°C)
Weight		253.5 lbs (115 kg)
Dimension		21.9 x 17.7 x 14.8 inch (555 x 450 x 376 mm)

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. All information provided is subject to change without prior notice.

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



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