

# LITHIUM-ION BATTERY TECHNOLOGY

## LONG-LASTING, FAST-CHARGING LIFT TRUCK BATTERIES.

Lithium-ion batteries offer an ideal solution to the energy efficiency and durability demands of today's material handling industry. Robust and reliable, the technology delivers long run times and fast recharging for optimized productivity in warehousing and distribution operations.

### FEATURES & BENEFITS

- + **Increased Productivity** with long run times, fast charging, and convenient opportunity charging.
- + **Less Maintenance** with a completely sealed battery design eliminates the traditional battery maintenance requirements (watering, equalizing and cleaning) of lead-acid.
- + **Lowest Total Cost of Ownership** with the longest cycle life in the industry.
- + **Reduced Energy and Operating Costs** with a decreased need for spare batteries or trucks.
- + **Easy Installation and Implementation** with a drop-in, plug-and-play design compatible with your entire Raymond fleet of new or existing electric lift trucks.
- + **Enhanced Peace-of-Mind** with UL2580 listing and a 8 year or 5000 cycles warranty.



**ENERGY ESSENTIALS**  
DISTRIBUTED BY **RAYMOND**

If you're looking for a partner with the tools and experience to help you run better and manage smarter, contact us today at 1-800-235-7200 or visit us at [raymondcorp.com](http://raymondcorp.com).

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# SPECIFICATIONS

Voltage Range	24V	36V	48V
Width Dimensions (in)	8.85 - 45.2	13.3 - 34.02	16.7 - 45.2
Min. Weight (lbs)	200 - 1600	1800 - 3100	1490 - 4280
Battery Capacity (Ah)	282 - 564	564 - 1,128	564 - 1,128
Total Energy Nominal (kWh)	7.2 - 14.4	20.6 - 41.2	14.4 - 57.6
Battery Technology	Electrovaya EV-44 (NMC with ceramic separator for safety)		
Charging Time	1.5 hours fast charge capability*		
Operational Temperature	Discharge: -30°C to 50°C / Charge -5°C to 50°C Discharge: -22 °F to 122 °F / Charge: 23 °F to 122 °F **		
Cycle Life	5000 + cycles ***		
Interface	Create a power system agnostic interface enabling data liberation with Power Source Integrated (PSI) and Power Source Limiting (PSL) options.		
Charger	Compatible with Raymond Energy Essentials lithium chargers		
Warranty	8 years or 5000 cycles		

\* May vary depending on operating condition and output of charge.

\*\* All charge/discharge below 5°C is limited to 10% of operating time, above 40°C to 45°C is limited to 5% of the operating time and above 45°C to 50°C is limited to 2% of the operating time; ambient temperature should not be higher than 35°C for extended periods.

\*\*\* May vary with operating conditions.



Proven Performance with an installed base of over 4000 powered vehicles at some of the largest companies in the world.

Designed and engineered specifically for our trucks, Raymond's lithium-ion batteries further enhance the most reliable, efficient, and productive fleet in the industry.

For more information or to see what lithium-ion battery technology could do for your fleet and business, please reach out to your local Solutions and Support Center, or contact us using the information below.