TRIED-AND-TESTED
LITHIUM SOLUTIONS FOR MHI

OneCharge

AMERICAN STANDARD

Series

Li-ion batteries to fit most applications

A OneCharge AMERICAN STANDARD Battery is a true workhorse of the American economy. A standard lithium battery that gets extraordinary results.

The Right Choice for Most Forklift Applications

- OneCharge lithium batteries can be made for any make and model of lift trucks worldwide
- Match or outperform lead-acid batteries, propane and diesel power
- Top quality standards and proven results in many applications and industries across North and South America

Performance

- Single battery operation
- Little or no voltage drop
- Reduce or eliminate heating issues that can damage lift truck components
- Fast travel and lifting speeds at all levels of discharge

Improve Safety and Sustainability

- Eliminate risk of changing heavy batteries
- No acid fumes or spills
- Reduce use of electricity, less waste, 99% recyclable

Lower Total Cost of Ownership

- 20-40% in 2-4 years (compared to LP, diesel or lead-acid)
- Two to three times the cycle life of a lead-acid battery
- Save the labor dollars to change and water batteries
- Return battery room space to the best use
- Reduce electricity use by as much as 30% due to better energy conversion
- Reduce or eliminate costs to cool charging areas and warehouse

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Case 1

A Major US Distributor Goes from 17 Electric Forklifts down to 12 to Do the Same Job

A large US beverage distributor (Standard Distributing Co, New Castle, Delaware) operates a temperature controlled warehouse 2 shifts daily, with a fleet of 17 sit-down lift trucks powered by lead-acid batteries. At the end of the lease cycle, management evaluated the power source options to solve some recurrent problems with lead-acid:

- Decrease downtime caused by frequent battery changes and improve warehouse efficiency
- Eliminate acid spills and stains, incompatible with high safety and hygiene standards
- Reduce ever-increasing operating costs of maintenance and energy

The flexibility to configure the lithium-ion batteries for the specific task (high lifts in a temperature-controlled warehouse) allowed Standart Distributing to largely increase uptime and resize the whole fleet as a result. The company decided to switch from lead acid to OneCharge Li-ion batteries. The purchase of six Yale ESC035AD 36V stand-up lift trucks and six Yale ERP035VT 36V sit-down forklifts powered by lithium batteries allowed Standard Distributing to streamline its fleet from 17 trucks down to 12 to do the same job.

Case 2

A Large Washington State Fruit Producer Saves Big by Switching to Li-ion

Allan Brothers, a large fruit company operates 30 electric sit-down lift trucks 2 shifts a day. Each truck required a change of its lead-acid battery each shift. The maintenance was racking up 750 minutes of down time daily, and up to $56,000 of yearly losses in labor cost. The weekly preventive maintenance of the batteries was estimated to cost another $7,800 a year.

When Allan Brothers installed a new state-of-the-art fruit packing line – the world's biggest – they faced an unexpected demand for new ventilated battery space to accommodate a fleet of lift trucks powered by lead acid batteries, a cost expected to amount to $440,000. This is when the company was fully convinced to switch to OneCharge forklift lithium batteries.

The costs of downtime during battery charging were eliminated, together with the need for a dedicated charging room. Also gone were the maintenance costs and HSE risks associated with battery changing that had previously been a concern. Management sees potential for further savings as there is a good chance that OneCharge Li-ion batteries will outlast the current five-year lease term for its trucks and keep substantial residual value.

Specifications:

Class of lift truck	I, II, III	**Capacity**	90 – 1080Ah
Voltage	24/36/48/72/80V	**Charging time**	2 hours or less