HYSTER® P1.6-2.0

POWERED BY LITHIUM-ION BATTERIES FOR MAXIMUM ENERGY EFFICIENCY

Li-ion

MARKET SEGMENTS

- Chemicals
- Automotive
- Retail
- Logistics
- Beverage
- Food

Hyster Lithium-ion (Li-ion) battery and charging system will help to deliver the best productivity levels for warehouse equipment and battery driven forklift trucks.

Particularly efficient in intermittent use over multi-shift applications, these batteries help to lower the overall cost of ownership and improve energy efficiency.

Hyster now offers an integrated Li-ion battery system for the P1.6-2.0 powered pallet truck series.

APPLICATIONS

This fast charging, long-life battery system is effective in light/medium applications with intermittent use.

Charging points can be located next to the loading area to minimise disruption.

Li-ion batteries replace multiple conventional battery sets with a single unit, releasing storage space and simplifying management requirements.

The sealed unit design reduces the risk of chemical spillage found in conventional batteries, which is valuable for food and pharmaceutical industry applications.

Managers of multi-shift operations in manufacturing, retail and logistics will find the use of a single battery especially helpful in reducing downtime.

BATTERY CAPACITIES AND CHARGERS

The Li-ion battery capacity available for the 24V P1.6-2.0 series is 56Ah.

Hyster offers a 20amp on board high frequency (HF) charger, which features a conventional plug for maximum convenience.

Li-ion Battery Capacity	Approximate charge time (hours)
	On-board charger
56Ah	<3

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BENEFITS

Charging efficiency

- Opportunity charging has no adverse affect on battery life
- Faster charging times compared to lead-acid batteries help reduce energy consumed
- On board 20 A HF charger with 230 V standard plug for quick and easy opportunity charging
- No battery exchange process needed

Zero maintenance

- Completely sealed unit means no spills or emissions
- Li-ion technology does not require equalisation charge
- No requirement to top up water levels
- Reduced CO_2 footprint

Advanced technology

- Lithium Nickel Manganese Cobalt (NMC) battery
- With its high energy density the Li-ion battery is lightweight, reducing operating effort and increasing manoeuvrability
- Li-ion technology offers 3x the cycle life of conventional batteries with 4000 cycles (at 80% discharge)

Li-ion

COMPARISON OF LEAD ACID AND LI-ION BATTERY FEATURES

	Lead Acid	Li-ion (Nickel Manganese Cobalt)
Cycles (80% DOD)	1200	4000
Charge temperature (°C)	Above 0°C	Above 0°C
Recommended operating temperature	5-40°C	5-40°C
Recharging time	6-12hr	< 3hr
Opportunity charging	No	Yes
Equalising charge	Required	Not required
Maintenance	Medium/high	Annual inspection
Initial cost (incl. charging equipment)	Low	Medium/high
Total cost of ownership in suitable applications	High/Medium	Medium
Emissions	Gassing during charging	No emissions