



**STRONG PARTNERS.
TOUGH TRUCKS.™**

INTEGRATED LITHIUM-ION BATTERY FREQUENTLY ASKED QUESTIONS

Available on Hyster® J50-60XNL and E50-60XNL models.



TRUCK AND BATTERY FEATURES

1. The integrated lithium-ion battery capacities are:

- J50-60XNL: 33.6kWh
- E50-60XNL: 33.6kWh

2. What battery features are included in the truck?

All J50-60XNL and E50-60XNL models come with the standard features provided with the Hyster Lithium-ion Ready program. This includes: battery state of charge via the truck display, low state of charge warning features and early shutdown warnings.

These two latest models advance the integration between the battery, charger and truck even further. Introduced in this truck are the following features:

- Battery to charger CAN communication
 - This allows the battery to control charge rate, putting faster charge into the battery from 0-80% before the charging slows to protect the battery from overcharging.
- High temperature thermal controls
 - Battery has the ability to detune the truck traction performance and detune charge rate to allow longer run times and increase battery life in high ambient environments.
- Heating pads for battery storage. (See “What about cold storage” below.)

3. How does the residual capacity compare to lead acid models?

While the integrated truck is lighter, Hyster engineering has optimized the location of the counterweighting to match the lead acid capacity more efficiently.

What this means in practice is that the integrated J50-60XNL residual capacity matches that of the lead acid with the minimum weight requirements.

The layout of the E50-60XNL allows for even more counterweighting and has improved residual capacity vs a lead acid with minimum weight requirements.

Please consult rating experts for more details.

4. What is the battery warranty?

7 years or 12,000 hours. Visit the J50-60XNL and E50-60XNL product pages on the Dealer Portal for more warranty information.

5. Where is this truck built?

The J50-60XNL series is built in the Craigavon facility in Northern Ireland. The E50-60XNL series is manufactured in our Greenville facility located in North Carolina.

6. What is the operating temperature for the battery?

The battery operating range is -40° to 131°F (-40° to 55°C).

7. What about cold storage?

All J50-60XNL and E50-60XNL trucks come with battery heaters installed for storage conditions. When the truck is connected to the charger, heaters engage to keep the battery temperature above 32°F (0°C). The heaters keep the battery above freezing when stored in -20°F (-30°C) indefinitely.

8. Can the battery be removed?

The battery is maintenance free; therefore, access or removal is not part of normal service schedule. If needed, the battery can be removed vertically from the floor.

INTEGRATED LITHIUM-ION FAQ



9. Are there any major option incompatibilities?

The J50-60XNL and E50-60XNL are incompatible with the following options: mechanical hydraulics and UL. The integrated lithium-ion battery is designed to UL standards, and internal componentry is UL listed; however, at this point, the battery itself is not yet UL certified or listed. Fully enclosed cab is available.

CHARGERS

10. What chargers are available?

The integrated lithium-ion battery communicates to drive the charger. As a result, the following chargers have been validated and approved. Visit the charger product pages on the Dealer Portal for more warranty information.

- Ecotec Fast Access: <https://partnerportal.hyster.com/americas/parts/supplier-overview/ecotec/>
- PosiCharge ProCore: <https://partnerportal.hyster.com/americas/parts/supplier-overview/posicharge/>

11. How fast can the battery be charged?

Charge rate is dependent on facility infrastructure and charger selection. Both Ecotec and PosiCharge offer a range of charger sizes.

- E50-60XNL with a 30kW fast charger can provide a full battery charge* in 65min.
- J50-60XNL with a 30kW fast charger can provide a full battery charge* in 65min.

12. What infrastructure is required for full charge capacity?

The fastest charge rate requires infrastructure providing 480V on a 50A breaker. Contact information for the charger supplier can be found on the Dealer Portal.

13. What are the charger warranties?

Charger warranties and service is provided by the Ecotec and PosiCharge. Visit the charger product pages on the Dealer Portal for more warranty information.

ORDERING

14. How do I order an integrated lithium-ion model?

The integrated lithium-ion models can be ordered through NOVO. It is an option under the standard product. In the base model, under the energy systems, select the Integrated Lithium-ion option. Please note this line item includes the and operator station improvements. This does not include the charger or the new air ride seat.

15. How do I order a charger?

The charger is not ordered via NOVO. Chargers can be ordered through the D3 Direct Ship program via aftermarket. All charger orders go toward dealer AIM-HY targets. Visit the charger product pages on the Dealer Portal for more information.

16. What is the lead time for an integrated lithium-ion battery model?

The lead time is the same as the listed lead times for the standard product. There are no increases in lead time due to SPED.


17. Is leasing available?

Yes. Contact Hyster Capital for more information.

18. Are SPRs available?

Yes. To compensate for possible dealer margin loss by integrating battery pricing into the truck, SPR margins may be increased. When submitting for a SPR, include the integrated option in the opportunity request. Contact Hyster tactical pricing for more information.



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*Full battery charge is defined as time to charge from lift-lock out of 8% to 100%