

Product Education Brief

HVAD Batteries Shipped with Reduced State of Charge

Overview

Medtronic is providing an update to (1) inform you of an upcoming change to how HVAD batteries will be shipped to comply with new global regulations and (2) provide you with additional information on product use and needed changes to your hospital's ordering system.

ICAO Regulation Impacting Air Shipment of Lithium-Ion Batteries

The International Civil Aviation Organization (ICAO) has implemented new regulations effective January 1, 2026, requiring that lithium-ion batteries be shipped at a State of Charge (SoC) not exceeding 30% of their rated capacity. This change directly affects current air transport procedures for HVAD batteries, which are typically shipped at a higher SoC and shipped alongside HVAD controllers in boxes labeled UN3481.

Batteries compliant with the new SoC requirement will soon be available for shipment. Once this change is in effect, it will apply to all shipping methods, not just air transport. Serial numbers starting at BAT200000 will be the reduced SoC batteries and will also have a new associated product code (REF: 1650MCS).

Ground shipments will continue as usual from our distribution centers to locations where ground transport is available.

For regions requiring air shipment, we have placed additional stock of HVAD batteries in the local distribution centers to support demand since the regulation went into effect in January, until now.

Additional information

The *HVAD™ Battery Updates Clinician Guide (UC202601290 IE)* has been developed, in addition to this communication, to help highlight these changes and to provide some reminders. The guide provides important information on proper management of batteries and charging including:

- To ensure batteries are ready for patient use, clinicians should verify that all batteries are fully charged before issuing them to patients.
- To support timely battery charging and ensure availability of fully charged batteries, hospitals should have a dedicated battery charger accessible to clinical staff.
- To ensure batteries are ready for immediate patient use, it is recommended for clinicians to unpack and fully charge the batteries prior to issuing them to patients. It takes approximately 5 to 6 hours to fully charge a depleted battery.
- Ensure batteries are issued to a patient before the Use By Date.

To minimize delays with future orders, please ensure the following update is made to your hospital's ordering system:

- **Add** the new HVAD™ Battery (REF: 1650MCS)

Use By Date reminders

The Use By Date of an HVAD battery can be found on the manufacturer packaging or carton as referenced in **Figure 1** below.

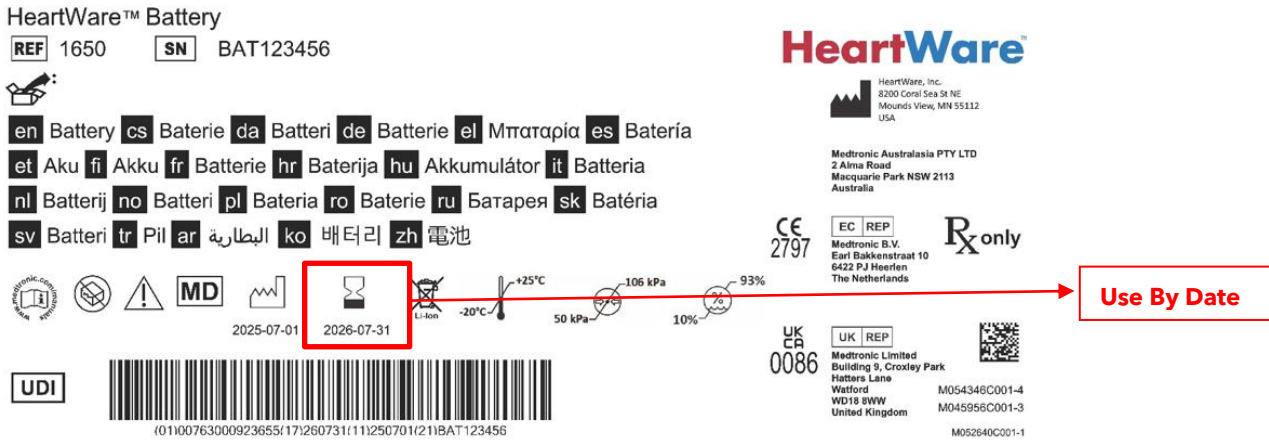


Figure 1. Use By Date is shown on the label located on the battery carton box.

If the manufacturer packaging or carton has been discarded, the Use By Date can be identified by referencing the Manufacture Date on the product labeling as seen in **Figure 2** below. The Use By Date is one year from the Manufacture Date for batteries.

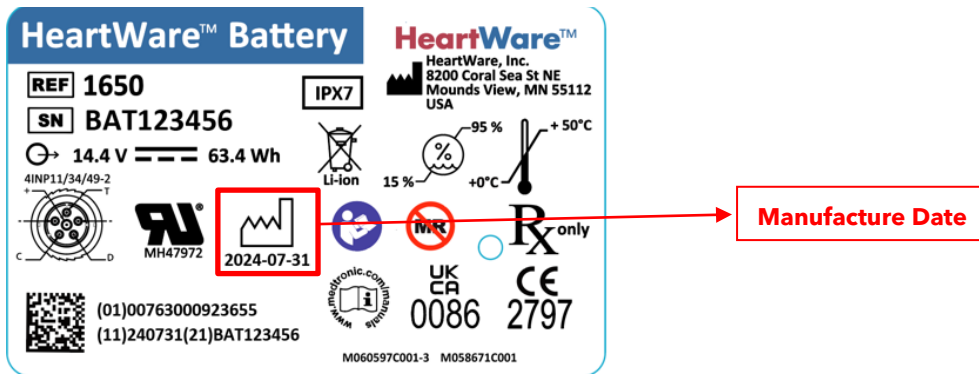


Figure 2. Manufacture Date is shown on the label located on the battery.

Refer to *HVAD™ Battery Updates Clinician Guide* for full recommendations. For printed copies of this piece, additional questions, or support please contact your local Medtronic field representative.