

IATA Shipping Instructions for Air Transportation

UN3480, LITHIUM ION BATTERIES, 9 (PI 965, Section IB → Small cells & batteries shipped alone)

ONLY TRAINED HAZMAT EMPLOYEES MAY SHIP LITHIUM BATTERIES USING THIS GUIDE.

Some batteries are regulated when shipped or offered for transportation. If the battery is restricted, then all applicable hazardous materials regulations must be met. This guide provides information to assist you in how to ship the battery by air.



How can I tell if the battery is regulated?

Batteries normally have the size listed directly on the battery case, which will help you identify whether or not it can be shipped without special packaging and package marking; in other words, shipped as non-restricted in transportation.



These instructions have been specifically prepared for the shipment of **small lithium ion batteries shipped by themselves** (Watt-hour rating ≤ 100 Wh in conformity with the requirements of the IATA Dangerous Goods Regulations, Edition 67 (effective 01/01/2026)).

DO NOT USE THESE SHIPPING INSTRUCTIONS FOR OTHER BATTERY TYPES.

All employees are responsible for compliance with applicable domestic and international dangerous goods transport regulations. All employees must be dangerous goods trained prior to using this shipping template. All information in this shipping template is accurate through the date of revision and must be validated against the regulations yearly and updated as regulations change. ©Honeywell



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DESCRIPTION

Items

(Identify and insert the description of items that may be shipped utilizing this template in this section.)

SHIPPING BY AIR (ICAO/IATA)

Shipping Location

Transport by Cargo Aircraft Only

Shipments of lithium ion batteries not contained in or packed with equipment are forbidden for transport aboard passenger aircraft.

Shipping Company

(Identify in this section the carriers used and carrier requirements)

(e.g., Airlines such as FedEx Express, DHL or UPS for (CAO) Cargo Aircraft Only)

State and Operator Variations (2.8)

Some States and/or Operators may file variations. Always check the State and operator variations in Section 2.8 of IATA for any additional requirements or restrictions.

NOTE

Damaged, defective, or recalled cells or batteries that have the potential of producing a dangerous evolution of heat, fire, or short circuit (including those being returned to the manufacturer for safety reasons) are forbidden for transport by air unless approved by the relevant Competent Authorities.

Waste batteries and those being shipped for recycling or disposal are forbidden for transport by air unless approved by the relevant Competent Authorities.

Every lithium cell and battery must meet the provisions of 3.9.2.6, as well as the general and additional requirements in the applicable packing instruction.

CLASSIFICATION

UN Number & Proper Shipping Name

UN3480, LITHIUM ION BATTERIES

Battery Testing Data

LITHIUM ION CELLS OR BATTERIES MUST MEET THE REQUIREMENTS OF EACH TEST IN THE *UN Manual of Tests and Criteria, Part III, Subsection 38.3*.

Battery Test Summary

A battery test summary complying with the requirements of the UN Manual of Tests and Criteria, Part III, Subsection 38.3, Paragraph 38.3.3.5 is required to prove all cells/batteries have been properly tested.

The battery test summary is not a transport document and is not required to be provided as a transport document. However, some carriers may request a copy be provided.



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CLASSIFICATION

Site Testing Data

(Insert the location of battery testing documentation and/or attach to the shipping instructions)

Special Provisions

A88, A99, A154, A183, A201, A213, A331, A334, A802

PACKAGING

Packing Instruction

965, Section IB

Watt-hour Rating (Section IB)

Lithium ion cells ≤ 20 Wh
Lithium ion batteries ≤ 100 Wh

Note that lithium battery shipments that do not meet Section IB limitations must be prepared as fully regulated in accordance with Section IA.

Limit per package (Table 965-IB)

Passenger Aircraft – FORBIDDEN
Cargo Aircraft Only – 10 kg

Short Circuit Prevention

The site must identify and insert information on how this will be done for applicable shipments.

Cells and batteries must be protected so as to prevent short circuits. This includes protection against contact with electrically conductive materials within the same packaging that could lead to a short circuit (e.g., place a single battery in a plastic bag and then place in a package).

THE CELLS OR BATTERIES MUST INCORPORATE A SAFETY VENTING DEVICE OR BE DESIGNED NOT TO RUPTURE UNDER NORMAL CONDITIONS OF TRANSPORT.

Each battery containing cells, or a series of cells connected in parallel, must be equipped with an effective means, as necessary, to prevent dangerous reverse current flow (e.g. diodes, fuses).

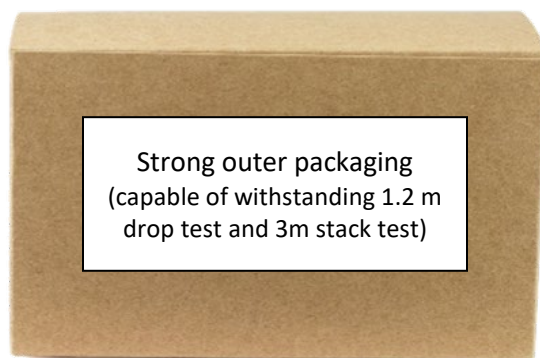
State of Charge (SoC)

Lithium ion cells and batteries must be offered for transport at a state of charge not exceeding 30% of their rated design capacity. It is the responsibility of the shipper to ensure the SoC requirements are met when packing the batteries for transport.

Note: Guidance and methodology for determining the rated capacity can be found in the UN Manual of Test and Criteria (Rev.8), Section 38.3.2.3.

PACKAGING

<p>Combination Packaging</p>	<p>LITHIUM CELLS AND BATTERIES MUST BE PACKED IN COMBINATION PACKAGING.</p> <p>Each lithium cell and battery must be placed in a non-metallic inner packaging that completely encloses it and separates it from contact with equipment, other devices or conductive materials in the outer packaging. Cells and batteries must be packaged in a manner to prevent short circuits and movement within the outer package.</p> <p>The inner packagings must be packed in a strong outer packaging conforming to 5.0.2.4, 5.0.2.6.1 and 5.0.2.12.1, such as drums, jerricans, and boxes (note that a UN specification packaging is not required).</p> <p>Cells and batteries must not be packed in the same outer packaging with other dangerous goods.</p>
<p>Additional Packaging Requirements</p>	<p>The package must be capable of withstanding a 1.2 m drop test in any orientation without damage to the cells or batteries it contains, shifting of the contents so as to allow battery to battery contact, or release of contents. It must also be capable of withstanding a 3 m stack test.</p>
<p>Type of Packaging</p>	<p><i>(Insert the type of packagings to be used. In addition, insert closure instructions or the location of the closure instructions to be used.)</i></p>



MARKING / LABELLING

Marking & Labelling

Mark the box with the UN number, proper shipping name (PSN) and net weight:
UN3480, LITHIUM ION BATTERIES

Add a shipping label with name and address of shipper and consignee, the battery mark, the Class 9 Battery label and the Cargo Aircraft Only label. If not already displayed, add “UN3480” to the mark.

Note: A telephone number may remain on the mark through December 31, 2026, but is no longer required.



Example of completed package for transportation by air on CARGO AIRCRAFT ONLY:



DOCUMENTATION

Document Type

A Shipper's Declaration for Dangerous Goods is required with specific information (see 8.1 of the IATA DGR for more information).

DG Identification

UN3480, LITHIUM ION BATTERIES, 9

Packing Instruction

The packing instruction used to prepare the shipment must be included, as well as Section “IB”.



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DOCUMENTATION – SHIPPER'S DECLARATION FOR DANGEROUS GOODS
CARGO AIRCRAFT ONLY

SHIPPER'S DECLARATION FOR DANGEROUS GOODS

Shipper Full name and address of consignor		Air Waybill No				
		Page 1 of 1 Pages				
		Shipper's Reference Numbers (optional)				
Consignee Full name and address of consignee						
<i>Two completed and signed copies of this Declaration must be handed to the operator</i>		WARNING				
TRANSPORT DETAILS		Failure to comply in all respects with the applicable Dangerous Goods regulations may be in breach of the Applicable law, subject to legal penalties.				
This shipment is within the limitations prescribed for (delete non-applicable)		Airport of Departure				
PASSENGER AND CARGO AIRCRAFT		Departure Airport or City (no abbreviations)				
CARGO AIRCRAFT ONLY						
Airport of Destination Destination Airport or City (no abbreviations)		Shipment type (delete non-applicable)				
		NON-RADIOACTIVE				
		RADIOACTIVE				
NATURE AND QUANTITY OF DANGEROUS GOODS						
Dangerous Goods Identification						
UN or ID No.	Proper Shipping Name	Class or Division (subsidiary hazard)	Packing Group	Quantity and Type of Packing	Packing Inst.	Authorization
UN 3480	LITHIUM ION BATTERIES	9		4 Fibreboard boxes x 8 kg each	965	IB
Additional Handling Information						
24-hour Emergency Response Contact: 123-456-7890 (per USG-12)						
I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. I declare that all of the applicable air transport requirements have been met.				Name of Signatory Name Date Date Signature (see warning above) Signature		

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TRAINING REQUIREMENTS

Training Requirements

Hazmat employee training must include the following:

- *General familiarization training*
- *Function-specific training*
- *Safety training*
- *Security awareness*

Initial training: Hazmat employees must be trained prior to their performing any duties related to the transportation of dangerous goods by air.

Recurrent training: Hazmat employees must be provided with recurrent training within 24 months of previous training to ensure knowledge is current. Honeywell also requires recurrent training every two years.

STORAGE

Storage Location & Special Considerations

(Insert storage requirements or special considerations.)

REFERENCES

IATA Dangerous Goods Regulations (DGR)

Edition 67 (Effective 1 January - 31 December 2026)

Section 1 1.5 – Training Requirements

Section 3 3.9.2.6 – Lithium Batteries

Section 5 5.9 – Packing Instructions – Class 9, Miscellaneous Dangerous Goods (PI 965, Section IB)

Section 6 6.3 – UN Packaging Performance Tests (not applicable to IB prepared packages other than 1.2 meters drop test)

Section 7 Marking and Labelling

Section 8 Documentation