

IATA Shipping Instructions for Air Transportation **UN3481, LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT, 9** (PI 967, Section II → Small cells & batteries)

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 contained in equipment** (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.



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LITHIUM ION BATTERIES CONTAINED
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(PI 967, Section II)**

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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 Passenger or Cargo Aircraft

Shipping Company

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

(e.g., Airlines such as American, Delta or United for Passenger Aircraft or FedEx Express 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.

Devices such as radio frequency identification (RFID) tags, watches and temperature loggers, which are not capable of generating a dangerous evolution of heat, may be transported when intentionally active. When active, these devices must meet defined standards for electromagnetic radiation to ensure that the operation of the device does not interfere with aircraft systems. The devices must not be capable of emitting disturbing signals (such as buzzing alarms, strobe lights, etc.) during transport.

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

UN3481, LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT

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.*

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CLASSIFICATION

Battery Test Summary Battery test summary NOT required for button cells installed in equipment.	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.
Site Testing Data	<i>(Insert the location of battery testing documentation and/or attach to the shipping instructions)</i>
Special Provisions	A48, A88, A99, A154, A181, A185, A213, A220

PACKAGING

Packing Instruction	967, Section II
Watt-hour Rating (Section II)	Applies to lithium ion and lithium polymer cells with a Watt-hour rating not exceeding 20 Wh and lithium ion batteries with a Watt-hour rating not exceeding 100 Wh.
Limit per package (Table 967-II)	Passenger Aircraft – 5 kg net quantity of lithium ion cells or batteries Cargo Aircraft Only – 5 kg net quantity of lithium ion cells or batteries
Short Circuit Prevention	<i>The site must identify and insert information on how this will be done for applicable shipments.</i> Secure cells or batteries in the equipment to ensure they do not separate from the equipment during transport (e.g., using tape or other means to secure cell or battery). THE CELLS OR BATTERIES MUST INCORPORATE A SAFETY VENTING DEVICE OR BE DESIGNED NOT TO RUPTURE UNDER THE NORMAL CONDITIONS OF TRANSPORT. Each battery containing cells or a series of cells connected in parallel must be equipped in an effective means, as necessary, to prevent dangerous reverse current flow (e.g., diodes, fuses).

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PACKAGING

Recommended State of Charge (SoC)

Lithium ion cells and batteries contained in equipment **should** be offered for transport at a state of charge not exceeding 30% of their rated design capacity, or an indicated battery capacity not exceeding 25%.

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

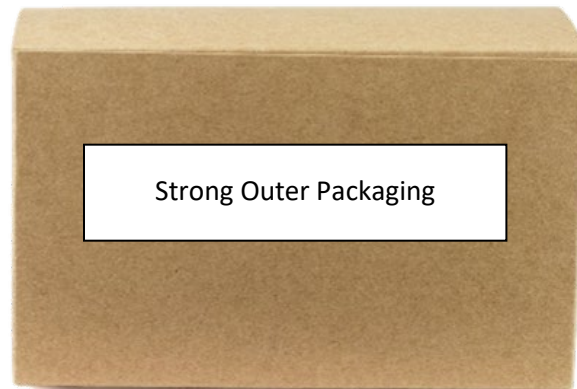
The equipment must be secured against movement within a strong outer packaging and be packed to prevent movement, short circuits, and accidental operation during air transport.

The equipment 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.

Spare batteries are not permitted to be packed with equipment using this guide (see applicable guide for shipping lithium batteries packed with equipment).

Type of Packaging

(Insert the type of packagings to be used. In addition, insert closure instructions or the location of the closure instructions to be used.)





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MARKING / LABELLING

Marking & Labelling

Display a shipping label with the name and address of shipper and consignee. Mark the package with the lithium battery mark. If not already displayed, add **UN3481**.

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



Note

The mark is not required when a package contains button cell batteries installed in equipment (including circuit boards), or no more than four (4) small lithium cells / two (2) small batteries contained in equipment, and there are not more than 2 packages in the consignment.

Example of completed package for transportation by air on PASSENGER AIRCRAFT:



DOCUMENTATION

Document Type

A Shipper's Declaration for Dangerous Goods is **NOT** required.

Alternative Document Requirements

The words "**lithium ion batteries in compliance with Section II of PI967**" must be placed on the air waybill when an air waybill is used (if the battery mark is required).

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Example of Air Waybill – PASSENGER AIRCRAFT:

Airport of Destination		Requested Flight/Date		Amount of Insurance		INSURANCE - If carrier offers insurance, and such insurance is requested in accordance with the conditions thereof, indicate amount to be insured in figures in box marked "Amount of Insurance".	
Handling Information							SCI
No. of Pieces RCP	Gross Weight	kg lb	Rate Class Commodity Item No.	Chargeable Weight	Rate / Charge	Total	Nature and Quantity of Goods (incl. Dimensions of Volume)
							Lithium ion batteries in compliance with Section II of PI 967

TRAINING REQUIREMENTS

Training Requirements

Employees must be informed of the requirements of this shipping guide before offering small lithium batteries for transport.

It is recommended that employees receive hazardous material general awareness training as well prior to preparing and offering lithium batteries for transport.

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 967, Section II)

Section 6

6.3 – UN Packaging Performance Tests

Section 7

Marking and Labeling

Section 8

Documentation – Air Waybill

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