LITHIUM METAL BATTERIES

Lithium Metal

Lithium Metal Batteries
UN3090, P.I. 968

Section IA

Acceptable to dangerous goods locations Only.

Cells greater than 1g and Batteries with an aggregate lithium content in excess of 2g.[1]

- Shipper's Declaration required in net weight KG.
- UN number, proper shipping name and shipper/ consignee name and address on the package
- UN specification packaging required (PGII standards)
- Class 9 - Lithium Batteries or Sodium Ion Batteries Label (See Figure 1)
- Cargo Aircraft Only (CAO) label required (See Figure 3)
- Dangerous goods surcharge

Limit per package:
Must be CAO = 35kg

~ or ~

Section II

- Must be offered as Section IA or IB.

Section IB

Acceptable to dangerous goods locations Only.

Cells equal to or less than 1g; and if batteries the aggregate lithium content is not more than 2g. [1]

- Shipper's Declaration required in net weight KG.
- IB on Shipper's Declaration after packing instruction
- UN number, proper shipping name and shipper/consignee name and address on the package
- Strong rigid outer packaging.
- Class 9 - Lithium Batteries or Sodium Ion Batteries Label (See Figure 1)
- Completed Battery Mark (See Figure 2)
- Cargo Aircraft Only (CAO) label required (See Figure 3)
- Dangerous goods surcharge

Limit per package:
Must be CAO = 2.5kg

[1] **AGGREGATE LITHIUM CONTENT** - The sum of the grams of lithium content contained by the cells comprising a battery. [IATA Appendix A]

FedEx does not provide these DG Labels. Customers may order these labels from vendors, such as those at www.iata.org/labels.

Figure 1

Class 9 - Lithium Batteries or Sodium Ion Batteries Label

NOTE: No text other than the Class "9" must be included in the bottom part of the Class 9 - Lithium Batteries or Sodium Ion Batteries Label. IATA 7.2.2.4

Figure 2

Battery Mark

* Shipper must add UN number(s). It should be 12 mm high **AND**

** The phone number is optional until 31 December 2026.

Figure 3

Cargo Aircraft Only Label

LITHIUM METAL BATTERIES

Lithium Metal

Lithium Metal Batteries packed with equipment
UN3091, P.I. 969

Section I
Acceptable to Dangerous goods locations Only.

Cells greater than 1g; and Batteries with an aggregate lithium content greater than 2g.[1]

- Shipper's Declaration required in net weight KG.
- UN number, proper shipping name and shipper/ consignee name and address on the package
- UN specification packaging required (PGII standards); may be inner or outer packaging as per PI 969
- Class 9 - Lithium Batteries or Sodium Ion Batteries Label (See Figure 1)
- Dangerous goods surcharge
- The number of cells or batteries in each package must not exceed the number required for each equipment's operation plus two spare sets.
- A set of cells or batteries is the number of individual cells or batteries that are required to power each piece of equipment

Limit per package (excludes equipment):
PAX = 5kg
CAO = 35kg

~ or ~

Section II
Acceptable to most locations.

Cells equal to or less than 1g; and Batteries equal to or less than 2g

- No Shipper's Declaration
- Strong rigid outer packaging
- Completed Battery Mark (See Figure 2)
- No Dangerous goods surcharge
- The number of cells or batteries in each package must not exceed the number required for each equipment's operation plus two spare sets.
- A set of cells or batteries is the number of individual cells or batteries that are required to power each piece of equipment
- If Special Provision A213 is applicable, 1.5 g and 10 Wh limits per battery apply.

Limit per package (excludes equipment):
PAX = 5kg
CAO = 5kg

Lithium Metal Batteries contained in equipment
UN3091, P.I. 970

Section I
Acceptable to dangerous goods locations Only.

Cells greater than 1g, but less than 12g; and Batteries with an aggregate lithium content greater than 2g but less than 500g. [1]

- Shipper's Declaration required in net weight KG.
- UN number, proper shipping name and shipper/consignee name and address on the package
- Strong rigid outer packaging
- Class 9 - Lithium Batteries or Sodium Ion Batteries Label (See Figure 1)
- Dangerous goods surcharge

Limit per package (excludes equipment):
PAX = 5kg
CAO = 35kg

~ or ~

Section II
Acceptable to most locations.

Cells of Lithium content equal to or less than 1g; and Batteries of Lithium content equal to or less than 2g

- No Shipper's Declaration
- Strong rigid outer packaging
- Completed Battery Mark if more than 4 cells and 2 batteries per package (See Figure 2)

Exception
The completed Battery Mark requirement does not apply to:
  - packages containing only button cell batteries installed in equipment (including circuit boards) or
  - consignments of two packages or less where each package contains no more than 4 cells or 2 batteries installed in equipment

- If Special Provision A213 is applicable, 1.5 g and 10 Wh limits per battery apply.
- No Dangerous goods surcharge

Limit per package (excludes equipment):
PAX = 5kg
CAO = 5kg

[1] **AGGREGATE LITHIUM CONTENT** - The sum of the grams of lithium content contained by the cells comprising a battery. [IATA Appendix A]

LITHIUM ION BATTERIES

Lithium Ion

Lithium Ion Batteries
UN3480, P.I. 965

Section IA
Acceptable to dangerous goods locations Only.

Cells greater than 20Wh; and Batteries greater than 100Wh

- Shipper's Declaration required in net weight KG.
- UN number, proper shipping name and shipper/ consignee name and address on the package
- UN specification packaging required (PGII standards)
- Class 9 - Lithium Batteries or Sodium Ion Batteries Label (See Figure 1)
- Cargo Aircraft Only (CAO) label required (See Figure 3)
- Dangerous goods surcharge
- State of charge (SoC) not exceeding 30% of their rated design capacity for cells and batteries without competent authority approval of both the state of origin and state of the operator

Limit per package:
CAO = 35kg

~ or ~

Section II
- Must be offered as Section IA or IB.

Section IB
Acceptable to dangerous goods locations Only.

Cells equal to or less than 20Wh; and Batteries equal to or less than 100Wh

- Shipper's Declaration required in net weight KG.
- IB on Shippers Declaration after packing Instruction
- UN number, proper shipping name and shipper/consignee name and address on the package
- Strong rigid outer packaging
- Class 9 - Lithium Batteries or Sodium Ion Batteries Label (See Figure 1)
- Completed Battery Mark (See Figure 2)
- Cargo Aircraft Only (CAO) label required (See Figure 3)
- Dangerous goods surcharge
- State of charge (SoC) not exceeding 30% of their rated design capacity for cells and batteries without competent authority approval of both the state of origin and state of the operator

Limit per package:
CAO = 10kg

LITHIUM ION BATTERIES

Lithium Ion

Lithium Ion Batteries packed with equipment **UN3481, P.I. 966**	Lithium Ion Batteries contained in equipment **UN3481, P.I. 967**

Section I
Acceptable to dangerous goods locations Only.

Cells greater than 20Wh; and Batteries greater than 100Wh

- Shipper's Declaration required in net weight KG.
- UN number, proper shipping name and shipper/ consignee name and address on the package
- UN specification packaging required (PGII standards); may be inner or outer packaging as per PI 966.
- Class 9 - Lithium Batteries or Sodium Ion Batteries Label (See Figure 1)
- Dangerous goods surcharge
- The number of cells or batteries in each package must not exceed the number required for each equipment's operation plus two spare sets.
- A set of cells or batteries is the number of individual cells or batteries that are required to power each piece of equipment.
- State of charge (SoC) not exceeding 30% of their rated design capacity for cells and batteries without competent authority approval of both the state of origin and state of the operator

Limit per package (excludes equipment):
PAX = 5kg
CAO = 35kg

~ or ~

Section II
Acceptable to most locations.

Cells equal to or less than 20Wh; and Batteries equal to or less than 100Wh

- No Shipper's Declaration
- Strong rigid outer packaging
- Completed Battery Mark (See Figure 2)
- No Dangerous goods surcharge
- The number of cells or batteries in each package must not exceed the number required for each equipment's operation plus two spare sets.
- A set of cells or batteries is the number of individual cells or batteries that are required to power each piece of equipment.
- State of charge (SoC) not exceeding 30% of their rated design capacity for cells and batteries without competent authority approval of both the state of origin and state of the operator

Limit per package (excludes equipment):
PAX = 5kg
CAO = 5kg

Section I
Acceptable to dangerous goods locations Only.

Cells greater than 20Wh; and
Batteries greater than 100Wh

- Shipper's Declaration required in net weight KG.
- UN number, proper shipping name and shipper/ consignee name and address on the package
- Strong rigid outer packaging
- Class 9 - Lithium Batteries or Sodium Ion Batteries Label (See Figure 1)
- Dangerous goods surcharge

Limit per package (excludes equipment):
PAX = 5kg
CAO = 35kg

~ or ~

Section II
Acceptable to most locations

Cells equal to or less than 20Wh; and Batteries equal to or less than 100Wh

- No Shipper's Declaration
- Strong rigid outer packaging
- Completed Battery Mark if more than 4 cells and 2 batteries per package (See Figure 2)

Exception

The completed Battery Mark requirement does not apply to:
  - packages containing only button cell batteries installed in equipment (including circuit boards) or
  - consignments of two packages or less where each package contains no more than 4 cells or 2 batteries installed in equipment
- No Dangerous goods surcharge

Limit per package (excludes equipment):

PAX = 5kg
CAO = 5kg

SODIUM ION BATTERIES

Sodium Ion

Sodium Ion Batteries
UN3551, P.I. 976

Acceptable to dangerous goods locations Only.

- Shipper's Declaration required in net weight KG.
- UN number, proper shipping name and shipper/ consignee name and address on the package
- UN specification packaging required (PGII standards)
- Class 9 - Lithium Batteries or Sodium Ion Batteries Label (See Figure 1)
- Cargo Aircraft Only (CAO) label required (See Figure 3)
- Dangerous goods surcharge
- State of charge (SoC) not exceeding 30% of their rated design capacity for cells and batteries without competent authority approval of both the state of origin and state of the operator

Limit per package:
CAO = 35kg

SODIUM ION BATTERIES

Sodium Ion

Sodium Ion Batteries packed with equipment **UN3552, P.I. 977**	Sodium Ion Batteries contained in equipment **UN3552, P.I. 978**

Section I
Acceptable to dangerous goods locations Only.

Cells greater than 20Wh; and Batteries greater than 100Wh

- Shipper's Declaration required in net weight KG.
- UN number, proper shipping name and shipper/consignee name and address on the package
- UN specification packaging required (PGII standards); may be inner or outer packaging as per PI 977.
- Class 9 - Lithium Batteries or Sodium Ion Batteries Label (See Figure 1)
- Dangerous goods surcharge
- The number of cells or batteries in each package must not exceed the number required for each equipment's operation plus two spare sets.
- A set of cells or batteries is the number of individual cells or batteries that are required to power each piece of equipment.

Limit per package (excludes equipment):
PAX = 5kg
CAO = 35kg

~ or ~

Section II
Acceptable to most locations.

Cells equal to or less than 20Wh; and Batteries equal to or less than 100Wh

- No Shipper's Declaration
- Strong rigid outer packaging
- Completed Battery Mark (See Figure 2)
- No Dangerous goods surcharge
- The number of cells or batteries in each package must not exceed the number required for each equipment's operation plus two spare sets.
- A set of cells or batteries is the number of individual cells or batteries that are required to power each piece of equipment.

Limit per package (excludes equipment):
PAX = 5kg
CAO = 5kg

Section I
Acceptable to dangerous goods locations Only.

Cells greater than 20Wh; and
Batteries greater than 100Wh

- Shipper's Declaration required in net weight KG.
- UN number, proper shipping name and shipper/consignee name and address on the package
- Strong rigid outer packaging
- Class 9 - Lithium Batteries or Sodium Ion Batteries Label (See Figure 1)
- Dangerous goods surcharge

Limit per package (excludes equipment):
PAX = 5kg
CAO = 35kg

~ or ~

Section II
Acceptable to most locations

Cells equal to or less than 20Wh; and Batteries equal to or less than 100Wh

- No Shipper's Declaration
- Strong rigid outer packaging
- Completed Battery Mark if more than 4 cells and 2 batteries per package (See Figure 2)

Exception

The completed Battery Mark requirement does not apply to:

  - packages containing only button cell batteries installed in equipment (including circuit boards) or
  - consignments of two packages or less where each package contains no more than 4 cells or 2 batteries installed in equipment

- No Dangerous goods surcharge

Limit per package (excludes equipment):

PAX = 5kg
CAO = 5kg

Note:

- FedEx will not accept any item with an A183 Special Provision, even with a Competent Authority approval unless specifically preapproved. [FX-04E]
- All Batteries (Lithium or Sodium) (Section I/IA/IB and Section II) in all packing instructions must not be shipped in the same package with the following Hazard Classes/Divisions:
  1.4, 2.1, 3, 4.1, 4.2, 4.3, 5.1, 5.2, 8, or 2.2 with a Cargo Aircraft Only label. This includes All Packed in One and Overpacks.

  Exception: Packages that contain devices (such as temperature control devices) containing Section II lithium/sodium batteries that do not require the battery mark according to Packing Instruction 967, 970, 977 or 978 can be shipped with the classes/divisions above; however the shipper must not select UN 3481, PI967, UN 3091, PI970 or UN 3552, PI978 in the FedEx shipping automation system. (ELB must not appear on the automation label.) [FX-05B]
- Shippers sending any data loggers or data monitors (other than FedEx SenseAware) require pre-approval. Contact your Worldwide Account Manager (WAM) to initiate the process. If you do not have a WAM, you may contact your sales or account manager. Devices are approved by manufacturer and model number, and a shipper may request the approval. You may contact your WAM, Sales or Account Manager to determine if your device is approved. [FX-05C]
- Small battery-powered vehicles will only be accepted from companies when new and in unopened original packaging. Used, refurbished self-balancing vehicle shipments from individuals, resellers, and third-party shipments will not be accepted.

  Examples of small battery-powered vehicles subject to this variation include:
  – Hoverboards
  – Self-balancing scooters
  – Unicycle scooters and one-wheeled personal transport vehicles [FX-04F]
- All batteries transported under IATA Special Provision A88 and A99 must be pre-approved. Customers can email A88A99approvalrequest@fedex.com to begin the process. [FX-05A]
- Call FedEx customer service and ask for the International Hotline/ Specialist to check on commodity acceptability for international shipments
- Select ELB in your FedEx automation device, if selection is available for any Section II UN3091 or UN3481 required to be labeled with the Battery Mark

Class 9 Miscellaneous Dangerous Goods Hazard Label

Lithium Battery Label

Obsolete effective 01/01/19

The Class 9 label **cannot** be used as the hazard label for Section I/IA/IB shipments effective 01/01/19.

The Class 9 - Lithium Batteries or Sodium Ion Batteries Label must be used instead.

If you have questions please contact the Dangerous Goods/Hazardous Materials Hotline at (800) GOFEDEX and press “81” or say dangerous goods. Press “4” to reach next available agent. If calling from outside the U.S. call (901) 375-6806 and press “4”

DISCLAIMER:
This guide is based upon the 2026 IATA Dangerous Goods Regulations and provides a general overview of battery shipping requirements. It does not provide complete shipping information. Consult the packing instruction and all applicable Special Provisions for the product being shipped.

These materials are provided as a courtesy, to be used as guidelines to assist properly trained shippers. These materials do not alter, satisfy, or influence any governmental requirements. The contents of these materials are subject to change due to constant changes in government regulations. FedEx accepts no liability for loss or damage resulting from changes, errors, omissions, or misinterpretations of these materials.