



Getting started

# Shipping lithium/sodium batteries and cells

This document reflects our 2025 services. Terms and Conditions of Carriage apply. For all latest information and full details of our services, please visit [fedex.com](https://www.fedex.com).



# Welcome

**This guide will help you find rules and requirements for shipping different types of lithium/sodium batteries and cells — including instructions for packaging, documentation and labeling.**

However, please note that this guide *does not apply* to lithium and sodium battery shipments exceeding 35kg.\*

The PDF is interactive. By clicking on your choices, you will automatically be taken to the information you require.

**Let's get started!**

Information provided herein is based on the United Nations Recommendations on the Transport of Dangerous Goods, the International Civil Aviation Organization (ICAO), the European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR), the International Air Transport Association (IATA), and applicable laws and regulations. Terms and Conditions apply - visit [fedex.com](https://www.fedex.com) for full details on Dangerous Goods shipments.

*\* Lithium or sodium battery shipments exceeding 35kg need special transport arrangements and the shipper must contact FedEx to make arrangements prior to shipping. Please reach out to your Account Executive or our Customer Support team at [fedex.com](https://www.fedex.com) for details.*

#### IMPORTANT NOTES:

1: Terms and Conditions of Carriage apply - visit [fedex.com](https://www.fedex.com) for full details on Dangerous Goods shipments.

2: Please note that the content contained herein is presented as a courtesy to be used only for informational purposes. FedEx attempts to ensure that the content is accurate, but not represent it to be error-free. In no event will FedEx be liable for any damages - whether direct, indirect, special, general, consequential, for alleged lost profits, or otherwise - that might result from any use of or reliance on these materials. The information contained herein may be revised from time to time, without any notice.

3: The sender is responsible for identifying, classifying, packaging, marking, labelling and completing documentation for dangerous goods shipments, in compliance with all applicable international treaties, laws and regulations. There are limitations for Dangerous Goods shipments to many destinations. If sender has questions regarding countries served, commodity restrictions by country or service availability, please contact our Customer Support team at [fedex.com](https://www.fedex.com).

# How are you shipping? (please click one)



BACK



HOME



## BY AIR

Including:

FedEx International Priority® Express  
FedEx International Priority®  
FedEx International Priority® Freight  
FedEx International First®  
FedEx® International Connect Plus  
FedEx International Economy®  
FedEx International Economy® Freight



## BY ROAD

Including:

FedEx® Regional Economy  
FedEx® Regional Economy Freight  
FedEx Priority Overnight®  
FedEx domestic services (if available)

# What are you shipping?



## By air

Including:

FedEx International Priority® Express  
FedEx International Priority®  
FedEx International Priority® Freight  
FedEx International First®  
FedEx® International Connect Plus  
FedEx International Economy®  
FedEx International Economy® Freight



Lithium **metal** or **alloy**  
batteries or cells



Lithium **ion**  
batteries or cells



Sodium **ion**  
batteries or cells



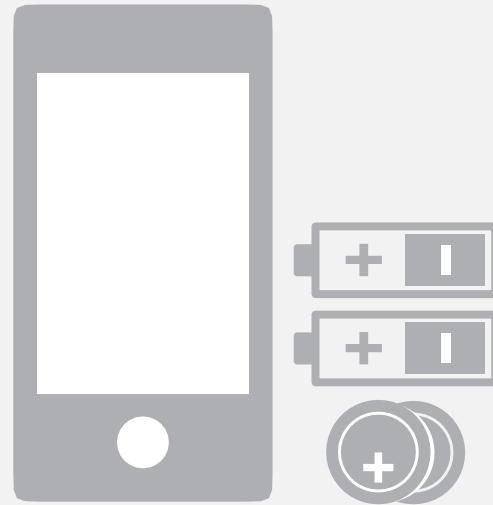
Shipping lithium metal  
or **alloy** batteries or cells by air



Lithium **metal** or **alloy** batteries or cells



Batteries/cells only



Packed with equipment  
(separate in same package)



Contained  
in equipment

## Select capacity



**Cells up to 1g**  
**Batteries up to 2g**

UN 3090, Lithium Metal Batteries —  
PI968 Section IB



**Cells over 1g**  
**Batteries over 2g**

UN 3090, Lithium Metal Batteries —  
PI968 Section IA





## Cells up to 1g Batteries up to 2g

UN 3090, Lithium Metal  
Batteries — P.I. 968 Section IB

### General restrictions

- Cargo Aircraft Only (CAO)
- Acceptable to Dangerous Goods locations only ([see list](#))
- Batteries/cells known to be damaged or defective are prohibited from transport
- Waste batteries and batteries being shipped for recycling/ disposal are prohibited from transport

### FedEx Express restrictions

- [FX-04 e] FedEx Express will not accept shipments that meet the condition of Special Provision A183, unless specifically pre-approved.
- [FX-05 b] All lithium batteries (Section I/IA/IB and Section II) in all packing instructions must not be shipped in the same package or overpack 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 (CAO) label.
- [FX-05 a] All batteries transported under IATA Special Provision A88 and A99 must be pre-approved. Customers can email [A88A99approvalrequest@fedex.com](mailto:A88A99approvalrequest@fedex.com) to begin the process.
- Select IDG in your FedEx automation device, if selection is available.
- Dangerous Goods surcharge applies

### Documentation

- Shipper's Declaration for Dangerous Goods, (required in net weight - kg), with IB noted in the authorization column for the Declaration or after packing instruction
- Waybill (if used) should have the statement "Dangerous goods as per associated Shipper's declaration," and "CAO" (Cargo Aircraft Only)

### Packaging

- UN number, proper shipping name, and shipper/ consignee name and address on the package
- Strong rigid outer packaging

**Limit per package:**  
Must be CAO = 2.5 kg (NET)

### Required labels / marks



Phone number on the Battery Mark is optional.

FedEx Express does not provide DG Labels. Customers may order required labels or marks from vendors, such as those at [www.iata.org/labels](http://www.iata.org/labels).





## Cells over 1g Batteries over 2g

UN 3090, Lithium Metal  
Batteries — P.I. 968 Section IA

### General restrictions

- Cargo Aircraft Only (CAO)
- Acceptable to Dangerous Goods locations only ([see list](#))
- Batteries/cells known to be damaged or defective are prohibited from transport
- Waste batteries and batteries being shipped for recycling/disposal are prohibited from transport

### FedEx Express restrictions

- [FX-04 e] FedEx Express will not accept shipments that meet the condition of Special Provision A183, unless specifically pre-approved.
- [FX-05 b] All lithium batteries (Section I/IA/IB and Section II) in all packing instructions must not be shipped in the same package or overpack 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 (CAO) label.
- [FX-05 a] All batteries transported under IATA Special Provision A88 and A99 must be pre-approved. Customers can email [A88A99approvalrequest@fedex.com](mailto:A88A99approvalrequest@fedex.com) to begin the process.
- Select IDG in your FedEx automation device, if selection is available.
- Dangerous Goods surcharge applies

### Documentation

- Shipper's Declaration for Dangerous Goods (required in net weight - kg)
- Waybill (if used) should have the statement "Dangerous goods as per associated Shipper's declaration," and "CAO" (Cargo Aircraft Only)

### Packaging

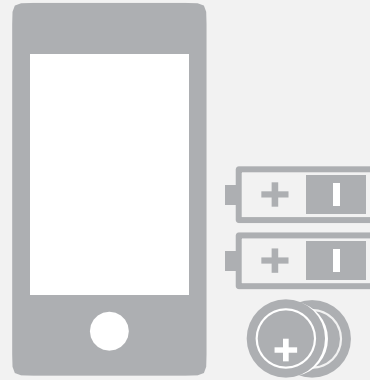
- UN number, proper shipping name, and shipper/consignee name and address on the package
- UN specification packaging required (PGII standards)

**Limit per package:**  
Must be CAO = 35 kg (NET)

### Required labels / marks

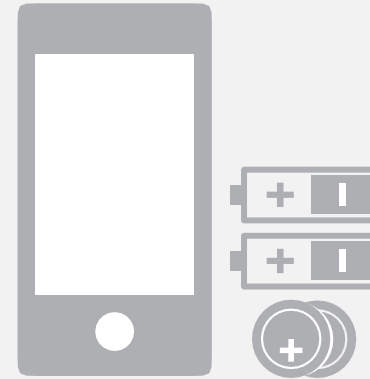


FedEx Express does not provide DG Labels. Customers may order required labels or marks from vendors, such as those at [www.iata.org/labels](http://www.iata.org/labels).



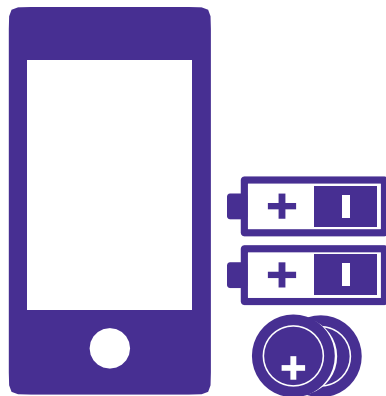
**Cells up to 1g**  
**Batteries up to 2g**

UN 3091, Lithium Metal Batteries  
Packed with Equipment  
PI969 Section II



**Cells over 1g**  
**Batteries over 2g**

UN 3091, Lithium Metal Batteries  
Packed with Equipment  
PI969 Section I



Cells up to 1g  
Batteries up to 2g

UN 3091, Lithium Metal Batteries  
Packed with Equipment  
P.I. 969 Section II

## General restrictions

- Acceptable to most locations
- Batteries/cells known to be damaged or defective are prohibited from transport
- Waste batteries and batteries being shipped for recycling/disposal are prohibited from transport

## FedEx Express restrictions

- [FX-04 e] FedEx Express will not accept shipments that meet the condition of Special Provision A183, unless specifically pre-approved.
- [FX-05 b] All lithium batteries (Section I/IA/IB and Section II) in all packing instructions must not be shipped in the same package or overpack 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 (CAO) label.
- [FX-05 a] All batteries transported under IATA Special Provision A88 and A99 must be pre-approved. Customers can email [A88A99approvalrequest@fedex.com](mailto:A88A99approvalrequest@fedex.com) to begin the process.
- 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.
- No Dangerous Goods surcharge

## Documentation

- Waybill (if used) should have the statement "Lithium metal batteries in compliance with Section II of PI 969"

## Packaging

- Strong rigid outer packaging
- 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:

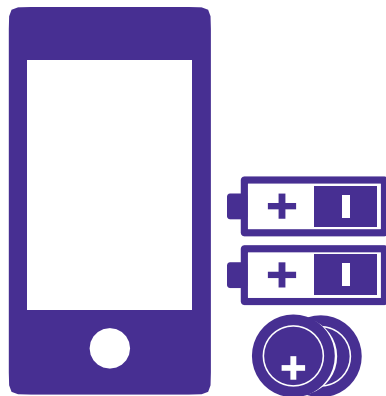
- PAX = 5kg; (NET) CAO = 5kg (NET)

## Required labels / marks



Phone number on Battery Mark is optional

FedEx Express does not provide DG Labels. Customers may order required labels or marks from vendors, such as those at [www.iata.org/labels](http://www.iata.org/labels).



## Cells over 1g Batteries over 2g

UN 3091, Lithium Metal Batteries  
Packed with Equipment  
P.I. 969 Section I

### General restrictions

- Acceptable to Dangerous Goods locations only ([see list](#))
- Batteries/cells known to be damaged or defective are prohibited from transport
- Waste batteries and batteries being shipped for recycling/disposal are prohibited from transport

### FedEx Express restrictions

- [FX-05 b] All lithium batteries (Section I/IA/IB and Section II) in all packing instructions must not be shipped in the same package or overpack 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 (CAO) label.
- [FX-05 a] All batteries transported under IATA Special Provision A88 and A99 must be pre-approved. Customers can email [A88A99approvalrequest@fedex.com](mailto:A88A99approvalrequest@fedex.com) to begin the process.
- Select IDG in your FedEx automation device, if selection is available
- Dangerous Goods surcharge applies

### Documentation

- Shipper's Declaration for Dangerous Goods
- Waybill (if used) should have the statement "Dangerous goods as per associated Shipper's declaration"

### Packaging

- 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
- 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:** PAX = 5kg; (NET) CAO = 35kg (NET)

### Required labels / marks



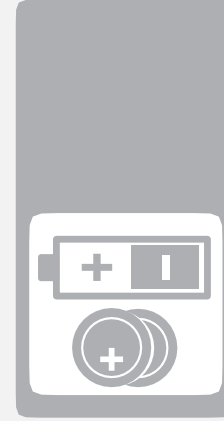
FedEx Express does not provide DG Labels. Customers may order required labels or marks from vendors, such as those at [www.iata.org/labels](http://www.iata.org/labels).





Cells **up to 1g**  
Batteries **up to 2g**

UN 3091, Lithium Metal Batteries Contained  
in Equipment —  
PI970 Section II



Cells **over 1g**  
Batteries **over 2g**

UN 3091, Lithium Metal Batteries  
Contained in Equipment —  
PI970 Section I

## Select quantity



Cells up to 1g  
Batteries up to 2g

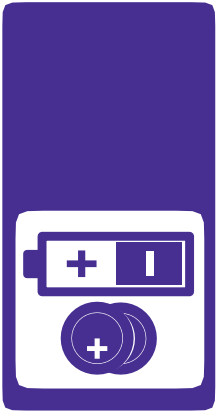


Up to 4 cells  
or 2 batteries



More than 4 cells  
or 2 batteries

UN 3091, Lithium Metal Batteries Contained in Equipment — PI970 Section II



Cells up to 1g  
Batteries up to 2g  
Up to 4 cells or 2 batteries

UN 3091, Lithium Metal Batteries Contained in  
Equipment — P.I. 970 Section II

General restrictions

- Acceptable to most locations
- Batteries/cells known to be damaged or defective are prohibited from transport
- Waste batteries and batteries being shipped for recycling/disposal are prohibited from transport

FedEx Express restrictions

- [FX-05 b] All lithium batteries (Section I/IA/IB and Section II) in all packing instructions must not be shipped in the same package or overpack 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 (CAO) label.
- [FX-05 c] 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-05 a] All batteries transported under IATA Special Provision A88 and A99 must be pre-approved. Customers can email [A88A99approvalrequest@fedex.com](mailto:A88A99approvalrequest@fedex.com) to begin the process.
- No Dangerous Goods surcharge

Documentation

- None

Packaging

- Strong rigid outer packaging
- If Special Provision A213 is applicable, 1.5 g and 10 Wh limits per battery apply

Limit per package:  
PAX = 5kg; (NET) CAO = 5kg (NET)

Required labels / marks

- Not applicable** as completed Battery Mark requirement does not apply to:
- Packages containing only button cell batteries installed in equipment (including circuit boards)
  - Consignments of two packages or less, where each package contains no more than 4 cells, or 2 batteries installed in equipment



Cells up to 1g  
Batteries up to 2g

More than 4 cells or 2 batteries

UN 3091, Lithium Metal Batteries Contained in  
Equipment — P.I. 970 Section II

## General restrictions

- Acceptable to most locations
- Batteries/cells known to be damaged or defective are prohibited from transport
- Waste batteries and batteries being shipped for recycling/disposal are prohibited from transport

## FedEx Express restrictions

- [FX-05 b] All lithium batteries (Section I/IA/IB and Section II) in all packing instructions must not be shipped in the same package or overpack 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 (CAO) label. **Exception:** If the only lithium batteries are Section II and are those in packages that are excepted from having the Battery Mark, then do not select UN 3091 PI 970 in the FedEx automation system (so ELB does not appear on the automation label) for devices such as temperature control devices.
- [FX-05 c] 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-05 a] All batteries transported under IATA Special Provision A88 and A99 must be pre-approved. Customers can email [A88A99approvalrequest@fedex.com](mailto:A88A99approvalrequest@fedex.com) to begin the process.
- 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
- No Dangerous Goods surcharge

## Documentation

- Waybill (if used) should have the statement "Lithium metal batteries in compliance with Section II of PI 970"

## Packaging

- Strong rigid outer packaging
- Completed Lithium Battery Mark if more than 4 cells and 2 batteries per package, unless (a) packages containing only button cell batteries installed in equipment (including circuit boards) or (b) 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

**Limit per package:**  
PAX = 5kg; (NET) CAO = 5kg (NET)

## Required labels / marks



Phone number on Battery Mark is optional.

FedEx Express does not provide DG Labels. Customers may order required labels or marks from vendors, such as those at [www.iata.org/labels](http://www.iata.org/labels).

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





Cells over 1g but less than 12g  
Batteries over 2g but less than 500g

UN 3091, Lithium Metal Batteries Contained in  
Equipment — P.I. 970 Section I

## General restrictions

- Acceptable to Dangerous Goods locations only ([see list](#))
- Batteries/cells known to be damaged or defective are prohibited from transport
- Waste batteries and batteries being shipped for recycling/disposal are prohibited from transport

## FedEx Express restrictions

- [FX-05 b] All lithium batteries (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 (CAO) label.
- [FX-05 c] 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-05 a] All batteries transported under IATA Special Provision A88 and A99 must be pre-approved. Customers can email [A88A99approvalrequest@fedex.com](mailto:A88A99approvalrequest@fedex.com) to begin the process.
- Select IDG in your FedEx automation device, if selection is available.
- Dangerous Goods surcharge applies

## Documentation

- Shipper's Declaration for Dangerous Goods
- Waybill (if used) should have the statement "Dangerous goods as per associated Shipper's declaration"

## Packaging

- Strong rigid outer packaging
- UN number, proper shipping name and shipper/consignee name and address on the package

### Limit per package:

PAX = 5kg; (NET) CAO = 35kg (NET)

## Required labels / marks



FedEx Express does not provide DG Labels. Customers may order required labels or marks from vendors, such as those at [www.iata.org/labels](http://www.iata.org/labels).

# Shipping lithium ion by air

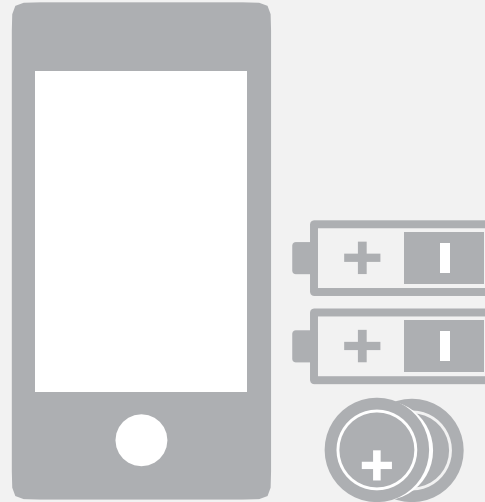




## Lithium **ion** batteries or cells



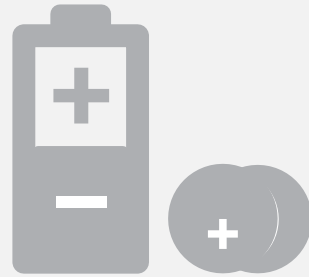
Batteries/cells only



Packed with equipment  
(separate in same package)



Contained  
in equipment



Cells **up to** 20 Wh  
Batteries **up to** 100 Wh

UN 3480, Lithium Ion Batteries —  
PI965 Section IB



Cells **over** 20 Wh  
Batteries **over** 100 Wh

UN 3480, Lithium Ion Batteries — PI965  
Section IA





Cells up to 20 Wh  
Batteries up to 100 Wh

UN 3480, Lithium Ion Batteries —  
P.I. 965 Section IB

## General restrictions

- Acceptable to Dangerous Goods locations only ([see list](#))
- Batteries/cells known to be damaged or defective are prohibited from transport
- Waste batteries and batteries being shipped for recycling/disposal are prohibited from transport

## FedEx Express restrictions

- [FX-04 e] FedEx Express will not accept shipments that meet the condition of Special Provision A183, unless specifically pre-approved.
- [FX-05 b] All lithium batteries (Section I/IA/IB and Section II) in all packing instructions must not be shipped in the same package or overpack 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 (CAO) label:
- [FX-05 a] All batteries transported under IATA Special Provision A88 and A99 must be pre-approved. Customers can email [A88A99approvalrequest@fedex.com](mailto:A88A99approvalrequest@fedex.com) to begin the process.
- Select IDG in your FedEx automation device, if selection is available.
- Dangerous Goods surcharge applies

## Documentation

- Shipper's Declaration for Dangerous Goods (with IB noted in the authorization column for the Declaration or after packing instruction)
- Waybill (if used) should have the statement "Dangerous goods as per associated Shipper's declaration," and "CAO" (Cargo Aircraft Only)

## Packaging

- Strong rigid outer packaging
- UN number, proper shipping name and shipper/consignee name and address on the package
- 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 (NET)

## Required labels / marks



Phone number on Battery Mark is optional.

FedEx Express does not provide DG Labels. Customers may order required labels or marks from vendors, such as those at [www.iata.org/labels](http://www.iata.org/labels).



## Cells over 20 Wh Batteries over 100 Wh

UN 3480, Lithium Ion Batteries —  
P.I. 965 Section IA

### General restrictions

- Acceptable to Dangerous Goods locations only ([see list](#))
- Batteries/cells known to be damaged or defective are prohibited from transport
- Waste batteries and batteries being shipped for recycling/disposal are prohibited from transport

### FedEx Express restrictions

- [FX-04 e] FedEx Express will not accept shipments that meet the condition of Special Provision A183, unless specifically pre-approved.
- [FX-05 b] All lithium batteries (Section I/IA/IB and Section II) in all packing instructions must not be shipped in the same package or overpack 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 (CAO) label.
- [FX-05 a] All batteries transported under IATA Special Provision A88 and A99 must be pre-approved. Customers can email [A88A99approvalrequest@fedex.com](mailto:A88A99approvalrequest@fedex.com) to begin the process.
- Select IDG in your FedEx automation device, if selection is available.
- Dangerous Goods surcharge applies

### Documentation

- Shipper's Declaration for Dangerous Goods
- Waybill (if used) should have the statement "Dangerous goods as per associated Shipper's declaration," and "CAO" (Cargo Aircraft Only)

### Packaging

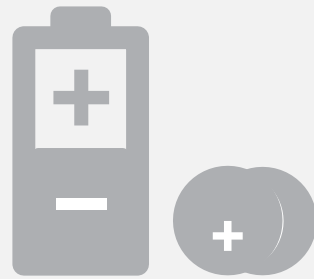
- UN number, proper shipping name and shipper/consignee name and address on the package
- UN specification packaging required (PGII standards)
- State of Charge (SoC) not exceeding 30% of their rated design capacity for cells and batteries without competent authority approval of both the state of origin and state of the operator

**Limit per package:**  
CAO = 35kg (NET)

### Required labels / marks



FedEx Express does not provide DG Labels. Customers may order required labels or marks from vendors, such as those at [www.iata.org/labels](http://www.iata.org/labels).



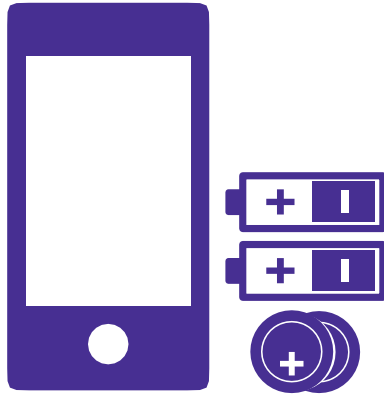
Cells **up to 20 Wh**  
Batteries **up to 100 Wh**

UN 3481, Lithium Ion Batteries Packed with  
Equipment — PI966 Section II



Cells **over 20 Wh**  
Batteries **over 100 Wh**

UN 3481, Lithium Ion Batteries Packed  
with Equipment — PI966 Section I



Cells up to 20 Wh  
Batteries up to 100 Wh

UN 3481, Lithium Ion Batteries Packed  
with Equipment — P.I. 966 Section II

## General restrictions

- Acceptable to most locations
- Batteries/cells known to be damaged or defective are prohibited from transport
- Waste batteries and batteries being shipped for recycling/disposal are prohibited from transport

## FedEx Express restrictions

- [FX-05 b] All lithium batteries (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 (CAO) label:
- [FX-04 f] Hoverboards or similar self-balancing vehicles (UN 3556) will only be accepted from companies if new, in unopened original packaging. Used, refurbished self-balancing vehicles shipments from individuals, resellers or third parties will not be accepted.
- [FX-05 a] All batteries transported under IATA Special Provision A88 and A99 must be pre-approved. Customers can email [A88A99approvalrequest@fedex.com](mailto:A88A99approvalrequest@fedex.com) to begin the process.
- Select ELB in your FedEx automation device, if selection is available for any Section II UN 3481 required to be labeled with the Lithium Battery Mark.
- No Dangerous Goods surcharge

## Documentation

- Waybill (if used) should have the "Lithium ion batteries in compliance with Section II of PI 966"

## Packaging

- Strong rigid outer packaging
- 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:

PAX = 5 kg; (NET) CAO = 5 kg (NET)

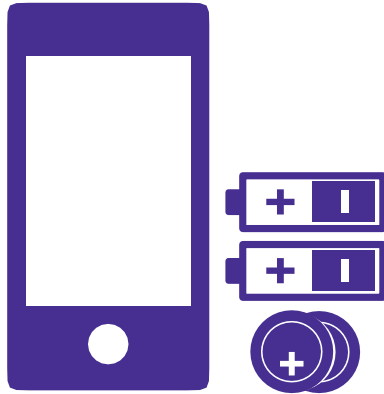
## Required labels / marks



Phone number on Battery Mark is optional.

FedEx Express does not provide DG Labels. Customers may order required labels or marks from vendors, such as those at [www.iata.org/labels](http://www.iata.org/labels).





## Cells over 20 Wh Batteries over 100 Wh

UN 3481, Lithium Ion Batteries Packed  
with Equipment — P.I. 966 Section I

### General restrictions

- Acceptable to Dangerous Goods locations only ([see list](#))
- Batteries/cells known to be damaged or defective are prohibited from transport
- Waste batteries and batteries being shipped for recycling/disposal are prohibited from transport

### FedEx Express restrictions

- [FX-05 b] All lithium batteries (Section I/IA/IB and Section II) in all packing instructions must not be shipped in the same package or overpack 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 (CAO) label.
- [FX-04 f] Hoverboards or similar self-balancing vehicles (UN 3556 will only be accepted from companies if new, in unopened original packaging. Used, refurbished self-balancing vehicles shipments from individuals, resellers or third parties will not be accepted.
- [FX-05 a] All batteries transported under IATA Special Provision A88 and A99 must be pre-approved. Customers can email [A88A99approvalrequest@fedex.com](mailto:A88A99approvalrequest@fedex.com) to begin the process.
- Select IDG in your FedEx automation device, if selection is available.
- Dangerous Goods surcharge applies

### Documentation

- Shipper's Declaration for Dangerous Goods
- Waybill (if used) should have the statement "Dangerous goods as per associated Shipper's declaration"

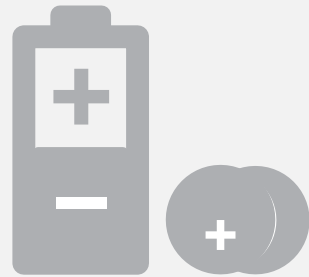
### Packaging

- Strong rigid outer packaging
  - 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
  - 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:** PAX = 5 kg (NET), CAO = 35kg (NET)

### Required labels / marks



FedEx Express does not provide DG Labels. Customers may order required labels or marks from vendors, such as those at [www.iata.org/labels](http://www.iata.org/labels).



Cells **up to 20 Wh**  
Batteries **up to 100 Wh**

UN 3481, Lithium Ion Batteries  
Contained in Equipment — PI967  
Section II



Cells **over 20 Wh**  
Batteries **over 100 Wh**

UN 3481, Lithium Ion Batteries  
Contained in Equipment — PI967  
Section I

## Select quantity



Cells up to 20 Wh  
Batteries up to 100 Wh



Up to 4 cells  
or 2 batteries



More than 4 cells  
or 2 batteries

UN 3481, Lithium Ion Batteries Contained in Equipment — PI967 Section II



Cells up to 20 Wh  
Batteries up to 100 Wh  
Up to 4 cells or 2 batteries

UN 3481, Lithium Ion Batteries Contained in  
Equipment — P.I. 967 Section II

### General restrictions

- Acceptable to most locations
- Batteries/cells known to be damaged or defective are prohibited from transport
- Waste batteries and batteries being shipped for recycling/disposal are prohibited from transport

### FedEx Express restrictions

- [FX-05 b] All lithium batteries (Section I/IA/IB and Section II) in all packing instructions must not be shipped in the same package or overpack 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 (CAO) label. **Exception:** If the only lithium batteries are Section II and are those in packages that are excepted from having the Lithium Battery Mark, then do not select UN 3481 PI 967 in the FedEx automation system (so ELB does not appear on the automation label) for devices such as temperature control devices.
- [FX-05 c] 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-04 f] Hoverboards or similar self-balancing vehicles (UN 3556) will only be accepted from companies if new, in unopened original packaging. Used, refurbished self-balancing vehicles shipments from individuals, resellers or third parties will not be accepted.
- [FX-05 a] All batteries transported under IATA Special Provision A88 and A99 must be pre-approved. Customers can email [A88A99approvalrequest@fedex.com](mailto:A88A99approvalrequest@fedex.com) to begin the process.
- No Dangerous Goods surcharge

### Documentation

- None

### Packaging

- Strong rigid outer packaging

**Limit per package:**  
PAX = 5 kg; (NET) CAO = 5kg (NET)

### Required labels / marks

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



Cells up to 20 Wh  
Batteries up to 100 Wh  
More than 4 cells or 2 batteries

UN 3481, Lithium Ion Batteries Contained in  
Equipment — P.I. 967 Section II

Documentation

- Waybill (if used) should have the statement "Lithium ion batteries in compliance with Section II of PI 967"

General restrictions

- Acceptable to most locations
- Batteries/cells known to be damaged or defective are prohibited from transport
- Waste batteries and batteries being shipped for recycling/disposal are prohibited from transport

FedEx Express restrictions

- [FX-05 b] All lithium batteries (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 (CAO) label. **Exception:** If the only lithium batteries are Section II and are those in packages that are excepted from having the Lithium Battery Mark, then do not select UN 3481 PI 967 in the FedEx automation system (so ELB does not appear on the automation label) for devices such as temperature control devices.
- [FX-05 c] 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-04 f] Hoverboards or similar self-balancing vehicles (UN 3556) will only be accepted from companies if new, in unopened original packaging. Used, refurbished self-balancing vehicles shipments from individuals, resellers or third parties will not be accepted.
- [FX-05 a] All batteries transported under IATA Special Provision A88 and A99 must be pre-approved. Customers can email [A88A99approvalrequest@fedex.com](mailto:A88A99approvalrequest@fedex.com) to begin the process.
- Select ELB in your FedEx automation device, if selection is available for any Section II UN3481 required to be labeled with the Lithium Battery Mark.

Packaging

- Strong rigid outer packaging
- Limit per package:**  
PAX = 5 kg (NET); CAO = 5kg (NET)

- No Dangerous Goods surcharge

Required labels / marks



Phone number on Battery Mark is optional.

FedEx Express does not provide DG Labels. Customers may order required labels or marks from vendors, such as those at [www.iata.org/labels](http://www.iata.org/labels).

**Exception**  
The completed Battery Mark requirement does not apply to:

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



## Cells over 20 Wh Batteries over 100 Wh

UN 3481, Lithium Ion Batteries Contained in  
Equipment — P.I. 967 Section I

### General restrictions

- Acceptable to Dangerous Goods locations only ([see list](#))
- Batteries/cells known to be damaged or defective are prohibited from transport
- Waste batteries and batteries being shipped for recycling/disposal are prohibited from transport

### FedEx Express restrictions

- [FX-05 b] All lithium batteries (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 (CAO) label.
- [FX-05 c] 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-04 f] Hoverboards or similar self-balancing vehicles (UN 3556) will only be accepted from companies if new, in unopened original packaging. Used, refurbished self-balancing vehicles shipments from individuals, resellers or third parties will not be accepted.
- [FX-05 a] All batteries transported under IATA Special Provision A88 and A99 must be pre-approved. Customers can email [A88A99approvalrequest@fedex.com](mailto:A88A99approvalrequest@fedex.com) to begin the process.
- Select IDG in your FedEx automation device, if selection is available.
- Dangerous Goods surcharge applies.

### Documentation

- Shipper's Declaration for Dangerous Goods
- Waybill (if used) should have the statement "Dangerous goods as per associated Shipper's declaration"

### Packaging

- 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

**Limit per package:** PAX = 5 kg; (NET) CAO = 35kg (NET)

### Required labels / marks



FedEx Express does not provide DG Labels. Customers may order required labels or marks from vendors, such as those at [www.iata.org/labels](http://www.iata.org/labels).



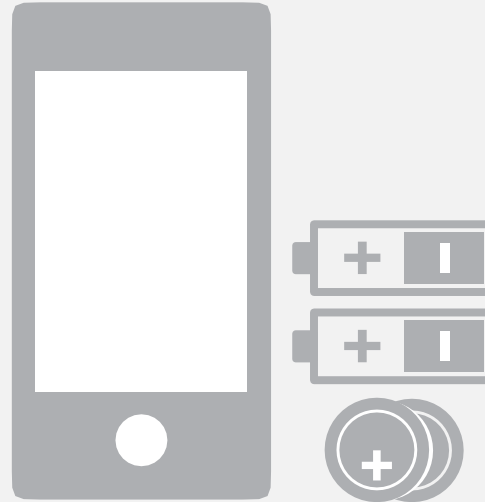
# Shipping Sodium ion by air



## Sodium **ion** batteries or cells



Batteries/cells only

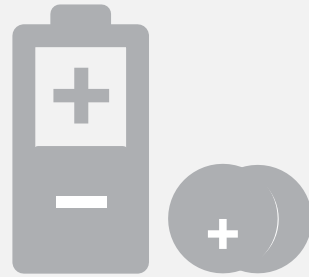


Packed with equipment  
(separate in same package)



Contained  
in equipment

## Select capacity



Cells **up to 20 Wh**  
Batteries **up to 100 Wh**

UN 3551, Sodium Ion Batteries —  
PI976 Section IB



Cells **over 20 Wh**  
Batteries **over 100 Wh**

UN 3551, Sodium Ion Batteries — PI976  
Section IA





Cells up to 20 Wh  
Batteries up to 100 Wh

UN 3551, Sodium Ion Batteries —  
P.I. 976 Section IB

## General restrictions

- Acceptable to Dangerous Goods locations only ([see list](#))
- Batteries/cells known to be damaged or defective are prohibited from transport
- Waste batteries and batteries being shipped for recycling/disposal are prohibited from transport

## FedEx Express restrictions

- [FX-04 e] FedEx Express will not accept shipments that meet the condition of Special Provision A183, unless specifically pre-approved.
- [FX-05 b] All lithium and sodium batteries (Section I/IA/IB and Section II) in all packing instructions must not be shipped in the same package or overpack 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 (CAO) label-
- [FX-05 a] All batteries transported under IATA Special Provision A88 and A99 must be pre-approved. Customers can email [A88A99approvalrequest@fedex.com](mailto:A88A99approvalrequest@fedex.com) to begin the process.
- Select IDG in your FedEx automation device, if selection is available.
- Dangerous Goods surcharge applies

## Documentation

- Shipper's Declaration for Dangerous Goods (with IB noted in the authorization column for the Declaration or after packing instruction)
- Waybill (if used) should have the statement "Dangerous goods as per associated Shipper's declaration," and "CAO" (Cargo Aircraft Only)

## Packaging

- Strong rigid outer packaging
- UN number, proper shipping name and shipper/consignee name and address on the package
- 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 (NET)

## Required labels / marks



Phone number on Battery Mark is optional.

FedEx Express does not provide DG Labels. Customers may order required labels or marks from vendors, such as those at [www.iata.org/labels](http://www.iata.org/labels).



## Cells over 20 Wh Batteries over 100 Wh

UN 3551, Sodium Ion Batteries —  
P.I. 976 Section IA

### General restrictions

- Acceptable to Dangerous Goods locations only ([see list](#))
- Batteries/cells known to be damaged or defective are prohibited from transport
- Waste batteries and batteries being shipped for recycling/disposal are prohibited from transport

### FedEx Express restrictions

- [FX-04 e] FedEx Express will not accept shipments that meet the condition of Special Provision A183, unless specifically pre-approved.
- [FX-05 b] All lithium and sodium batteries (Section I/IA/IB and Section II) in all packing instructions must not be shipped in the same package or overpack 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 (CAO) label.
- [FX-05 a] All batteries transported under IATA Special Provision A88 and A99 must be pre-approved. Customers can email [A88A99approvalrequest@fedex.com](mailto:A88A99approvalrequest@fedex.com) to begin the process.
- Select IDG in your FedEx automation device, if selection is available.
- Dangerous Goods surcharge applies

### Documentation

- Shipper's Declaration for Dangerous Goods
- Waybill (if used) should have the statement "Dangerous goods as per associated Shipper's declaration," and "CAO" (Cargo Aircraft Only)

### Packaging

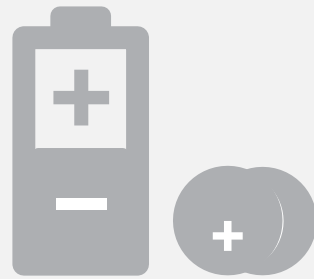
- UN number, proper shipping name and shipper/consignee name and address on the package
- UN specification packaging required (PGII standards)
- State of Charge (SoC) not exceeding 30% of their rated design capacity for cells and batteries without competent authority approval of both the state of origin and state of the operator

**Limit per package:**  
CAO = 35kg (NET)

### Required labels / marks



FedEx Express does not provide DG Labels. Customers may order required labels or marks from vendors, such as those at [www.iata.org/labels](http://www.iata.org/labels).



Cells **up to 20 Wh**  
Batteries **up to 100 Wh**

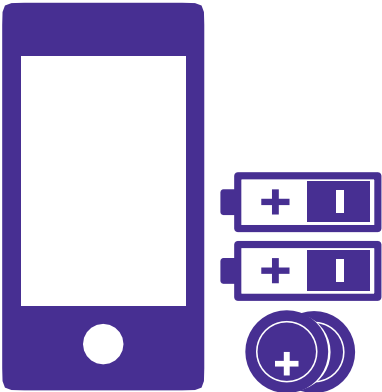
UN 3552, Sodium Ion Batteries Packed with  
Equipment — PI977 Section II



Cells **over 20 Wh**  
Batteries **over 100 Wh**

UN 3552, Sodium Ion Batteries Packed  
with Equipment — PI977 Section I





Cells up to 20 Wh  
Batteries up to 100 Wh

UN 3552, Sodium Ion Batteries Packed  
with Equipment — P.I. 977 Section II

### General restrictions

- Acceptable to most locations
- Batteries/cells known to be damaged or defective are prohibited from transport
- Waste batteries and batteries being shipped for recycling/disposal are prohibited from transport

### FedEx Express restrictions

- [FX-05 b] All lithium and sodium batteries (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 (CAO) label:
- [FX-04 f] Hoverboards or similar self-balancing vehicles (UN 3558) will only be accepted from companies if new, in unopened original packaging. Used, refurbished self-balancing vehicles shipments from individuals, resellers or third parties will not be accepted.
- [FX-05 a] All batteries transported under IATA Special Provision A88 and A99 must be pre-approved. Customers can email [A88A99approvalrequest@fedex.com](mailto:A88A99approvalrequest@fedex.com) to begin the process.
- Select ELB in your FedEx automation device, if selection is available for any Section II UN 3552 required to be labeled with the Sodium Battery Mark.
- No Dangerous Goods surcharge

### Documentation

- Waybill (if used) should have the “Sodium ion batteries in compliance with Section II of PI 977”

### Packaging

- Strong rigid outer packaging
- 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.

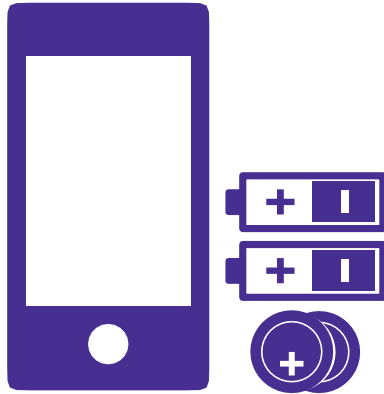
**Limit per package:**  
PAX = 5 kg (NET); CAO = 5 kg (NET)

### Required labels / marks



Phone number on Battery Mark is optional.

FedEx Express does not provide DG Labels. Customers may order required labels or marks from vendors, such as those at [www.iata.org/labels](http://www.iata.org/labels).



## Cells over 20 Wh Batteries over 100 Wh

UN 3552, Sodium Ion Batteries Packed  
with Equipment — P.I. 977 Section I

### General restrictions

- Acceptable to Dangerous Goods locations only ([see list](#))
- Batteries/cells known to be damaged or defective are prohibited from transport
- Waste batteries and batteries being shipped for recycling/disposal are prohibited from transport

### FedEx Express restrictions

- [FX-05 b] All lithium and sodium batteries (Section I/IA/IB and Section II) in all packing instructions must not be shipped in the same package or overpack 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 (CAO) label.
- [FX-04 f] Hoverboards or similar self-balancing vehicles (UN 3358) will only be accepted from companies if new, in unopened original packaging. Used, refurbished self-balancing vehicles shipments from individuals, resellers or third parties will not be accepted.
- [FX-05 a] All batteries transported under IATA Special Provision A88 and A99 must be pre-approved. Customers can email [A88A99approvalrequest@fedex.com](mailto:A88A99approvalrequest@fedex.com) to begin the process.
- Select IDG in your FedEx automation device, if selection is available.
- Dangerous Goods surcharge applies

### Documentation

- Shipper's Declaration for Dangerous Goods
- Waybill (if used) should have the statement "Dangerous goods as per associated Shipper's declaration"

### Packaging

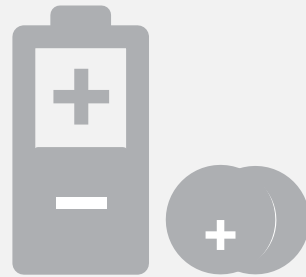
- Strong rigid outer packaging
  - UN number, proper shipping name and shipper/consignee name and address on the package
  - UN specification packaging required (PGII standards); may be inner or outer packaging as per PI 977
  - The number of cells or batteries in each package must not exceed the number 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:** PAX = 5 kg (NET); CAO = 35kg (NET)

### Required labels / marks



FedEx Express does not provide DG Labels. Customers may order required labels or marks from vendors, such as those at [www.iata.org/labels](http://www.iata.org/labels).

## Select capacity



Cells **up to** 20 Wh  
Batteries **up to** 100 Wh

UN 3552, Sodium Ion Batteries  
Contained in Equipment — PI978  
Section II



Cells **over** 20 Wh  
Batteries **over** 100 Wh

UN 3552, Sodium Ion Batteries  
Contained in Equipment — PI978  
Section I

## Select quantity



Cells up to 20 Wh  
Batteries up to 100 Wh



Up to 4 cells  
or 2 batteries



More than 4 cells  
or 2 batteries

UN 3552, Sodium Ion Batteries Contained in Equipment — PI978 Section II



Cells up to 20 Wh  
Batteries up to 100 Wh  
Up to 4 cells or 2 batteries

UN 3552, Sodium Ion Batteries Contained in  
Equipment — P.I. 978 Section II

General restrictions

- Acceptable to most locations
- Batteries/cells known to be damaged or defective are prohibited from transport
- Waste batteries and batteries being shipped for recycling/disposal are prohibited from transport

FedEx Express restrictions

- [FX-05 b] All lithium and sodium batteries (Section I/IA/IB and Section II) in all packing instructions must not be shipped in the same package or overpack 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 (CAO) label. **Exception:** If the only sodium batteries are Section II and are those in packages that are excepted from having the sodium Battery Mark, then do not select UN 3481 PI 967 in the FedEx automation system (so ELB does not appear on the automation label) for devices such as temperature control devices.
- [FX-05 c] 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-04 f] Hoverboards or similar self-balancing vehicles (UN 3558) will only be accepted from companies if new, in unopened original packaging. Used, refurbished self-balancing vehicles shipments from individuals, resellers or third parties will not be accepted.
- [FX-05 a] All batteries transported under IATA Special Provision A88 and A99 must be pre-approved. Customers can email [A88A99approvalrequest@fedex.com](mailto:A88A99approvalrequest@fedex.com) to begin the process.
- No Dangerous Goods surcharge

Documentation

- None

Packaging

- Strong rigid outer packaging

**Limit per package:**  
PAX = 5 kg (NET); CAO = 5kg (NET)

Required labels / marks

**Not applicable as** completed Sodium Battery Mark requirement does not apply to:

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



Cells up to 20 Wh  
Batteries up to 100 Wh  
More than 4 cells or 2 batteries

UN 3552, Sodium Ion Batteries Contained in  
Equipment — P.I. 978 Section II

Documentation

- Waybill (if used) should have the statement “Sodium ion batteries in compliance with Section II of PI 978”

General restrictions

- Acceptable to most locations
- Batteries/cells known to be damaged or defective are prohibited from transport
- Waste batteries and batteries being shipped for recycling/disposal are prohibited from transport

FedEx Express restrictions

- [FX-05 b] All lithium and sodium batteries (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 (CAO) label. **Exception:** If the only lithium batteries are Section II and are those in packages that are excepted from having the Lithium Battery Mark, then do not select UN 3481 PI 967 in the FedEx automation system (so ELB does not appear on the automation label) for devices such as temperature control devices.
- [FX-05 c] 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-04 f] Hoverboards or similar self-balancing vehicles (UN 3558) will only be accepted from companies if new, in unopened original packaging. Used, refurbished self-balancing vehicles shipments from individuals, resellers or third parties will not be accepted.
- [FX-05 a] All batteries transported under IATA Special Provision A88 and A99 must be pre-approved. Customers can email [A88A99approvalrequest@fedex.com](mailto:A88A99approvalrequest@fedex.com) to begin the process.
- Select ELB in your FedEx automation device, if selection is available for any Section II UN 3552 required to be labeled with the Lithium Battery Mark.

Packaging

- Strong rigid outer packaging
- Limit per package:**  
PAX = 5 kg (NET); CAO = 5kg (NET)

Required labels / marks



Phone number on Battery Mark is optional.

FedEx Express does not provide DG Labels. Customers may order required labels or marks from vendors, such as those at [www.iata.org/labels](http://www.iata.org/labels).

Exception

The completed Battery Mark requirement does not apply to:

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





## Cells over 20 Wh Batteries over 100 Wh

UN 3552, Sodium Ion Batteries Contained in  
Equipment — P.I. 978 Section I

### General restrictions

- Acceptable to Dangerous Goods locations only ([see list](#))
- Batteries/cells known to be damaged or defective are prohibited from transport
- Waste batteries and batteries being shipped for recycling/disposal are prohibited from transport

### FedEx Express restrictions

- [FX-05 b] All lithium and sodium batteries (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 (CAO) label.
- [FX-05 c] 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-04 f] Hoverboards or similar self-balancing vehicles (UN 3558) will only be accepted from companies if new, in unopened original packaging. Used, refurbished self-balancing vehicles shipments from individuals, resellers or third parties will not be accepted.
- [FX-05 a] All batteries transported under IATA Special Provision A88 and A99 must be pre-approved. Customers can email [A88A99approvalrequest@fedex.com](mailto:A88A99approvalrequest@fedex.com) to begin the process.
- Select IDG in your FedEx automation device, if selection is available.
- Dangerous Goods surcharge applies.

### Documentation

- Shipper's Declaration for Dangerous Goods
- Waybill (if used) should have the statement "Dangerous goods as per associated Shipper's declaration"

### Packaging

- 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

**Limit per package:** PAX = 5 kg (NET); CAO = 35kg (NET)

### Required labels / marks



FedEx Express does not provide DG Labels. Customers may order required labels or marks from vendors, such as those at [www.iata.org/labels](http://www.iata.org/labels).

# What are you shipping?



## BY ROAD

Including:  
FedEx® Regional Economy  
FedEx® Regional Economy Freight  
FedEx Priority Overnight®  
FedEx domestic services (if available)



Lithium **metal** or **alloy**  
batteries or cells



Lithium **ion**  
batteries Lithium or  
cells



Sodium **ion**  
batteries or cells

# Shipping lithium metal or alloy batteries or cells by road

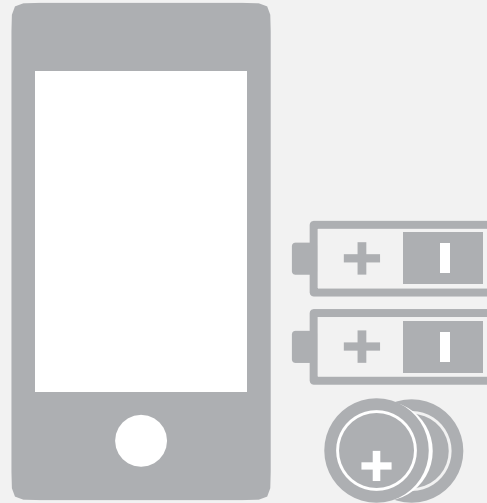


# How are they packed?

Lithium **metal** or **alloy** batteries or cells



Batteries/cells only

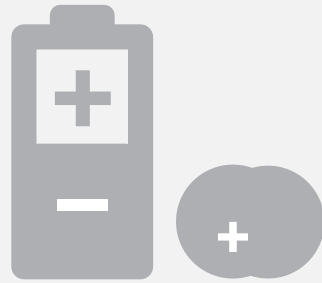


Packed with equipment  
(separate in same package)



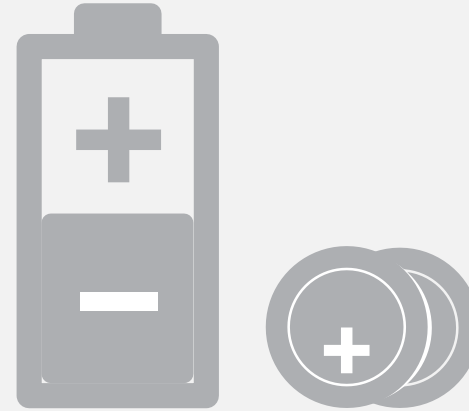
Contained  
in equipment

## Select capacity



**Cells up to 1g**  
**Batteries up to 2g**

UN 3090, Lithium Metal Batteries —  
Special Provision 188



**Cells over 1g**  
**Batteries over 2g**

UN 3090, Lithium Metal Batteries —  
Fully Regulated



Cells up to 1g  
Batteries up to 2g

UN 3090, Lithium Metal Batteries — Special  
Provision 188

## General restrictions

- Acceptable to/from European Dangerous Goods locations only, where there is no Air connection in the routing of the shipment.
- Batteries/cells known to be damaged or defective are prohibited from transport
- Waste batteries and batteries being shipped for recycling/disposal are prohibited from transport

## FedEx Express restrictions

- FedEx Economy shipments of UN 3090 or UN 3480 offered in compliance with ADR Special Provision 188 will be acceptable for carriage only in Economy intra Europe services.
- Select EBB in your FedEx automation device.
- Lithium Battery surcharge apply.
- If you are shipping from the European Union, the United Kingdom, Norway, and Switzerland to a country/territory other than the European Union, the United Kingdom, Norway, and Switzerland, then please refer to 'Air' section of this document.

## Documentation

- None

## Packaging

- Strong rigid outer packaging

### Limit per package:

Package shall not exceed 30 kg gross weight

## Required labels / marks



Phone number on Battery Mark is optional

FedEx Express does not provide DG Labels. Customers may order required labels or marks from vendors, such as those at [www.iata.org/labels](http://www.iata.org/labels).





## Cells over 1g Batteries over 2g

UN 3090, Lithium Metal Batteries — Fully Regulated

### General restrictions

- Acceptable to/from European Dangerous Goods locations only where there is no Air connection in the routing of the shipment
- Batteries/cells known to be damaged or defective are prohibited from transport
- Waste batteries and batteries being shipped for recycling/disposal are prohibited from transport

### FedEx Express restrictions

- Shipments exceeding limits of ADR 1.1.3.6 are not accepted
- Select FDG in your FedEx automation device
- Dangerous Goods surcharge applies
- If you are shipping from the European Union, the United Kingdom, Norway, and Switzerland to a country/territory other than the European Union, the United Kingdom, Norway, and Switzerland, then please refer to 'Air' section of this document.

### Documentation

- ADR declaration or Multimodal Dangerous Goods Form

### Packaging

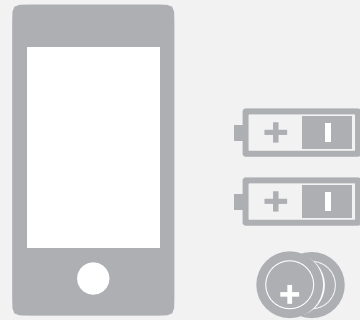
- UN number on the package
- UN specification packaging required (PGII standards)
- In addition, for cells or batteries with a gross mass of 12 kg or more, employing a strong, impact resistant outer casing, and assemblies of such cells or batteries:
  - a) Strong outer packaging;
  - b) Protective enclosures (e.g., fully enclosed or wooden slatted crates); or
  - c) Pallets or other handling devices.

**Limit per package:** 333 kg (NET)

### Required labels / marks

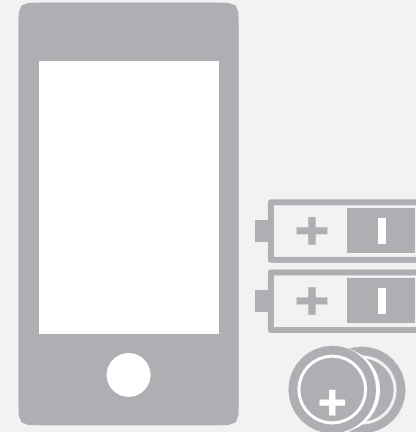


FedEx Express does not provide DG Labels. Customers may order required labels or marks from vendors, such as those at [www.iata.org/labels](http://www.iata.org/labels).



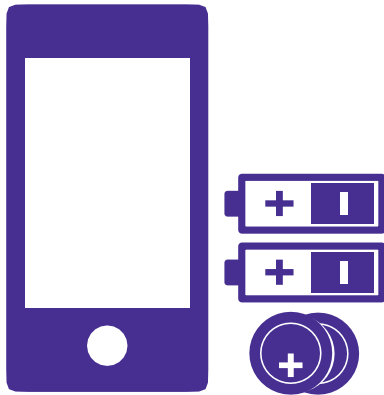
**Cells up to 1g**  
**Batteries up to 2g**

UN 3091, Lithium Metal Batteries  
Packed with Equipment — Special  
Provision 188



**Cells over 1g**  
**Batteries over 2g**

UN 3091, Lithium Metal Batteries  
Packed with Equipment – Fully  
Regulated



Cells up to 1g  
Batteries up to 2g

UN 3091, Lithium Metal Batteries –  
Special Provision 188

General restrictions

- Acceptable to most locations
- Batteries/cells known to be damaged or defective are prohibited from transport
- Waste batteries and batteries being shipped for recycling/disposal are prohibited from transport

FedEx Express restrictions

- Select ELB in your FedEx automation device
- FedEx Lithium Battery surcharge apply.
- If you are shipping from the European Union, the United Kingdom, Norway, and Switzerland to a country/territory other than the European Union, the United Kingdom, Norway, and Switzerland, then please refer to ‘Air’ section of this document.

Documentation

- None

Packaging

- Strong rigid outer packaging

Limit per package:

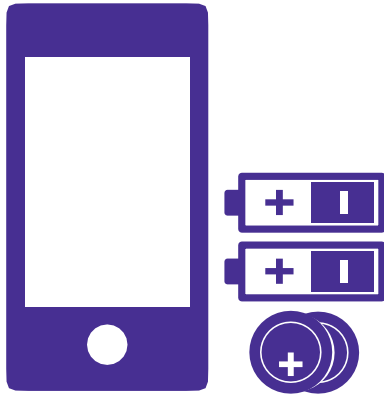
None

Required labels / marks



Phone number on Battery Mark is optional

FedEx Express does not provide DG Labels. Customers may order required labels or marks from vendors, such as those at [www.iata.org/labels](http://www.iata.org/labels).



## Cells over 1g Batteries over 2g

UN 3091, Lithium Metal Batteries Packed with  
Equipment – Fully Regulated

### General restrictions

- Acceptable to/from European Dangerous Goods locations only where there is no Air connection in the routing of the shipment
- Batteries/cells known to be damaged or defective are prohibited from transport
- Waste batteries and batteries being shipped for recycling/disposal are prohibited from transport

### FedEx Express restrictions

- Shipments exceeding limits of ADR 1.1.3.6 are not accepted
- Select FDG in your FedEx automation device
- Dangerous Goods surcharge applies
- If you are shipping from the European Union, the United Kingdom, Norway, and Switzerland to a country/territory other than the European Union, the United Kingdom, Norway, and Switzerland, then please refer to 'Air' section of this document.

### Documentation

- ADR declaration or Multimodal Dangerous Goods Form

### Packaging

- UN number on the package
- UN specification packaging required (PGII standards);

**Limit per package:**  
333 kg (NET)

### Required labels / marks



FedEx Express does not provide DG Labels. Customers may order required labels or marks from vendors, such as those at [www.iata.org/labels](http://www.iata.org/labels).

## Select capacity



**Cells up to 1g**  
**Batteries up to 2g**

UN 3091, Lithium Metal Batteries Contained  
in Equipment — Special Provision 188



**Cells over 1g**  
**Batteries over 2g**

UN 3091, Lithium Metal Batteries Contained  
in Equipment — Fully Regulated

## Select quantity



Cells up to 1g  
Batteries up to 2g



Up to 4 cells  
or 2 batteries



More than 4 cells  
or 2 batteries

UN 3091, Lithium Metal Batteries Contained in Equipment — Special Provision 188





Cells up to 1g  
Batteries up to 2g  
Up to **4 cells** or **2 batteries**  
UN 3091, Lithium Metal Batteries Contained in  
Equipment — ADR Special Provision 188

General restrictions

- Acceptable to most locations
- Batteries/cells known to be damaged or defective are prohibited from transport
- Waste batteries and batteries being shipped for recycling/disposal are prohibited from transport

FedEx Express restrictions

- No Dangerous Goods surcharge
- If you are shipping from the European Union, the United Kingdom, Norway, and Switzerland to a country/territory other than the European Union, the United Kingdom, Norway, and Switzerland, then please refer to 'Air' section of this document.

Documentation

- None

Packaging

- Strong rigid outer packaging

Limit per package:

None

Required labels / marks

**Not applicable as** completed Battery Mark requirement does not apply to:

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



Cells up to 1g  
Batteries up to 2g

More than 4 cells or 2 batteries

UN 3091, Lithium Metal Batteries Contained in  
Equipment — ADR Special Provision 188

General restrictions

- Acceptable to most locations
- Batteries/cells known to be damaged or defective are prohibited from transport
- Waste batteries and batteries being shipped for recycling/disposal are prohibited from transport

FedEx Express restrictions

- Select ELB in your FedEx automation device
- FedEx Lithium Battery surcharge apply.
- If you are shipping from the European Union, the United Kingdom, Norway, and Switzerland to a country/territory other than the European Union, the United Kingdom, Norway, and Switzerland, then please refer to 'Air' section of this document.

Documentation

- None

Packaging

- Strong rigid outer packaging

Limit per package:

None

Required labels / marks



Phone number on Battery Mark is optional

FedEx Express does not provide DG Labels. Customers may order required labels or marks from vendors, such as those at [www.iata.org/labels](http://www.iata.org/labels).

Exception

The completed Lithium Battery Mark requirement does not apply to:

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



## Cells over 1g Batteries over 2g

UN 3091, Lithium Metal Batteries Contained in  
Equipment — Fully Regulated

### General restrictions

- Acceptable to/from European Dangerous Goods locations only where there is no Air connection in the routing of the shipment
- Batteries/cells known to be damaged or defective are prohibited from transport
- Waste batteries and batteries being shipped for recycling/disposal are prohibited from transport

### FedEx Express restrictions

- Shipments exceeding limits of ADR 1.1.3.6 are not accepted
- Select FDG in your FedEx automation device
- Dangerous Goods surcharge applies
- If you are shipping from the European Union, the United Kingdom, Norway, and Switzerland to a country/territory other than the European Union, the United Kingdom, Norway, and Switzerland, then please refer to 'Air' section of this document.

### Documentation

- ADR declaration or Multimodal Dangerous Goods Form

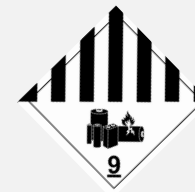
### Packaging

- Strong rigid outer packaging
- UN number on the package

#### Limit per package:

333 KG (NET)

### Required labels / marks



FedEx Express does not provide DG Labels. Customers may order required labels or marks from vendors, such as those at [www.iata.org/labels](http://www.iata.org/labels).

# Shipping lithium ion by road

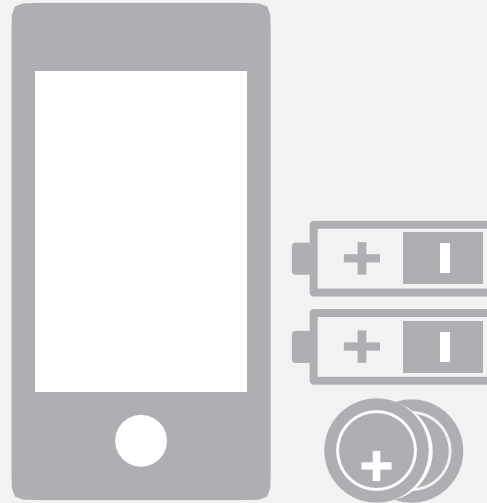


# How are they packed?

## Lithium **ion** batteries or cells



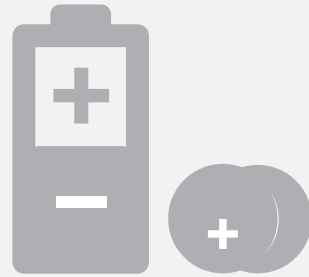
Batteries/cells only



Packed with equipment  
(separate in same package)



Contained  
in equipment



Cells **up to 20 Wh**  
Batteries **up to 100 Wh**

UN 3480, Lithium Ion Batteries — Special  
Provision 188



Cells **over 20 Wh**  
Batteries **over 100 Wh**

UN 3480, Lithium Ion Batteries – Fully  
Regulated





Cells up to 20 Wh  
Batteries up to 100 Wh  
UN 3480, Lithium Ion Batteries —  
Special Provision 188

General restrictions

- Acceptable to/from European Dangerous Goods locations only where there is no Air connection in the routing of the shipment
- Batteries/cells known to be damaged or defective are prohibited from transport
- Waste batteries and batteries being shipped for recycling/disposal are prohibited from transport

FedEx Express restrictions

- FedEx Economy shipments of UN 3090 or UN 3480 offered in compliance with ADR Special Provision 188 will be acceptable for carriage only in Economy intra Europe services
- Select EBB in your FedEx automation device
- FedEx Lithium Battery surcharge apply.
- If you are shipping from the European Union, the United Kingdom, Norway, and Switzerland to a country/territory other than the European Union, the United Kingdom, Norway, and Switzerland, then please refer to 'Air' section of this document.

Documentation

- None

Packaging

- Strong rigid outer packaging

Limit per package:

Package shall not exceed 30 kg gross weight

Required labels / marks



Phone number on Battery Mark is optional

FedEx Express does not provide DG Labels. Customers may order required labels or marks from vendors, such as those at [www.iata.org/labels](http://www.iata.org/labels).



## Cells over 20 Wh Batteries over 100 Wh

UN 3480, Lithium Ion Batteries —  
Fully Regulated

### General restrictions

- Acceptable to/from European Dangerous Goods locations only where there is no Air connection in the routing of the shipment
- Batteries/cells known to be damaged or defective are prohibited from transport
- Waste batteries and batteries being shipped for recycling/disposal are prohibited from transport

### FedEx Express restrictions

- Shipments exceeding limits of ADR 1.1.3.6 are not accepted
- Select FDG in your FedEx automation device
- Dangerous Goods surcharge applies
- If you are shipping from the European Union, the United Kingdom, Norway, and Switzerland to a country/territory other than the European Union, the United Kingdom, Norway, and Switzerland, then please refer to 'Air' section of this document.

### Documentation

- ADR declaration or Multimodal Dangerous Goods Form

### Packaging

- UN number on the package
- UN specification packaging required (PGII standards)
- In addition, for cells or batteries with a gross mass of 12 kg or more, employing a strong, impact resistant outer casing, and assemblies of such cells or batteries:
  - a) Strong outer packaging;
  - b) Protective enclosures (e.g., fully enclosed or wooden slatted crates); or
  - c) Pallets or other handling devices.

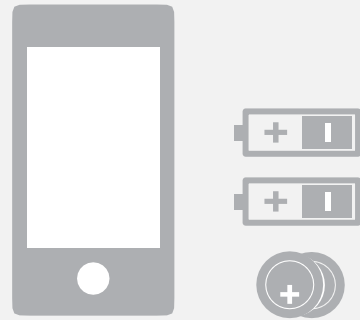
**Limit per package:**  
333 kg (NET)

### Required labels / marks



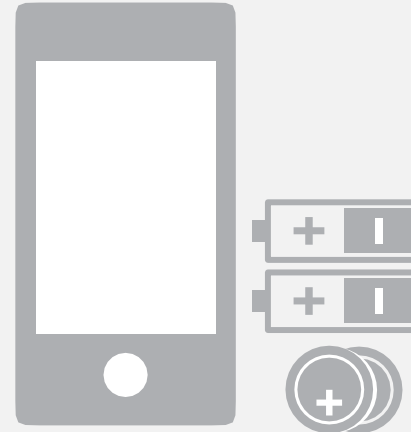
FedEx Express does not provide DG Labels. Customers may order required labels or marks from vendors, such as those at [www.iata.org/labels](http://www.iata.org/labels).

## Select capacity



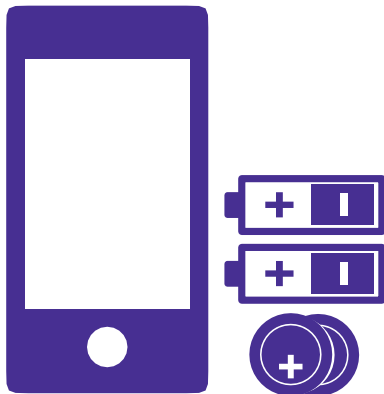
Cells **up to 20 Wh**  
Batteries **up to 100 Wh**

UN 3481, Lithium Ion Batteries Packed with  
Equipment - Complying with Special  
Provision 188



Cells **over 20 Wh**  
Batteries **over 100 Wh**

UN 3481, Lithium Ion Batteries Packed with  
Equipment — Fully Regulated



Cells up to 20 Wh  
Batteries up to 100 Wh

UN 3481, Lithium Ion Batteries Packed with  
Equipment - ADR Special Provision 188

## General restrictions

- Acceptable to most locations
- Batteries/cells known to be damaged or defective are prohibited from transport
- Waste batteries and batteries being shipped for recycling/disposal are prohibited from transport

## FedEx Express restrictions

- Select ELB in your FedEx automation device
- FedEx Lithium Battery surcharge apply.
- If you are shipping from the European Union, the United Kingdom, Norway, and Switzerland to a country/territory other than the European Union, the United Kingdom, Norway, and Switzerland, then please refer to 'Air' section of this document.

## Documentation

- None

## Packaging

- Strong rigid outer packaging

### Limit per package:

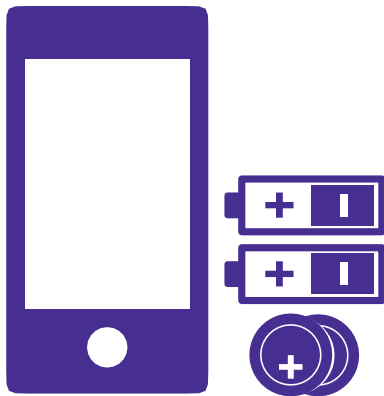
None

## Required labels / marks



Phone number on Battery Mark is optional

FedEx Express does not provide DG Labels. Customers may order required labels or marks from vendors, such as those at [www.iata.org/labels](http://www.iata.org/labels).



## Cells over 20 Wh Batteries over 100 Wh

UN 3481, Lithium Ion Batteries Packed with  
Equipment — Fully Regulated

### General restrictions

- Acceptable to/from European Dangerous Goods locations only where there is no Air connection in the routing of the shipment
- Batteries/cells known to be damaged or defective are prohibited from transport
- Waste batteries and batteries being shipped for recycling/disposal are prohibited from transport

### FedEx Express restrictions

- Shipments exceeding limits of ADR 1.1.3.6 are not accepted
- Select FDG in your FedEx automation device
- Dangerous Goods surcharge applies
- If you are shipping from the European Union, the United Kingdom, Norway, and Switzerland to a country/territory other than the European Union, the United Kingdom, Norway, and Switzerland, then please refer to 'Air' section of this document.

### Documentation

- ADR declaration or Multimodal Dangerous Goods Form

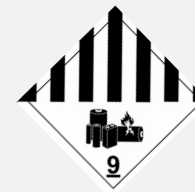
### Packaging

- UN number on the package
- UN specification packaging required (PGII standards)

#### Limit per package:

333 KG (NET)

### Required labels / marks



FedEx Express does not provide DG Labels. Customers may order required labels or marks from vendors, such as those at [www.iata.org/labels](http://www.iata.org/labels).



Cells **up to** 20 Wh  
Batteries **up to** 100 Wh

UN 3480, Lithium Ion Batteries — Special  
Provision 188



Cells **over** 20 Wh  
Batteries **over** 100 Wh

UN 3480, Lithium Ion Batteries —  
Fully Regulated



## Select quantity



Cells up to 20 Wh  
Batteries up to 100 Wh



Up to 4 cells  
or 2 batteries



More than 4 cells  
or 2 batteries

UN 3481, Lithium Ion Batteries contained in Equipment— Special Provision 188



Cells up to 20 Wh  
Batteries up to 100 Wh  
**Up to 4 cells or 2 batteries**

UN 3481, Lithium Ion Batteries Contained in  
Equipment — Special Provision 188

General restrictions

- Acceptable to most locations
- Batteries/cells known to be damaged or defective are prohibited from transport
- Waste batteries and batteries being shipped for recycling/disposal are prohibited from transport

FedEx Express restrictions

- No Dangerous Goods surcharge
- If you are shipping from the European Union, the United Kingdom, Norway, and Switzerland to a country/territory other than the European Union, the United Kingdom, Norway, and Switzerland, then please refer to 'Air' section of this document.

Documentation

- None

Packaging

- Strong rigid outer packaging

Limit per package:

None

Required labels / marks

**Not applicable as** completed Battery Mark requirement does not apply to:

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



Cells up to 20 Wh  
Batteries up to 100 Wh  
More than **4 cells** or **2 batteries**  
UN 3481, Lithium Ion Batteries Contained in  
Equipment — Special Provision 188

General restrictions

- Acceptable to most locations
- Batteries/cells known to be damaged or defective are prohibited from transport
- Waste batteries and batteries being shipped for recycling/disposal are prohibited from transport

FedEx Express restrictions

- Select ELB in your FedEx automation device
- FedEx Lithium Battery surcharge apply.
- If you are shipping from the European Union, the United Kingdom, Norway, and Switzerland to a country/territory other than the European Union, the United Kingdom, Norway, and Switzerland, then please refer to 'Air' section of this document.

Documentation

- None

Packaging

- Strong rigid outer packaging

Limit per package:

None

Required labels / marks



Phone number on Battery Mark is optional

FedEx Express does not provide DG Labels. Customers may order required labels or marks from vendors, such as those at [www.iata.org/labels](http://www.iata.org/labels).

Exception

The completed Battery Mark requirement does not apply to:

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



## Cells over 20 Wh Batteries over 100 Wh

UN 3091, Lithium Ion Batteries Contained in  
Equipment — Fully Regulated

### General restrictions

- Acceptable to/from European Dangerous Goods locations only where there is no Air connection in the routing of the shipment
- Batteries/cells known to be damaged or defective are prohibited from transport
- Waste batteries and batteries being shipped for recycling/disposal are prohibited from transport

### FedEx Express restrictions

- Shipments exceeding limits of ADR 1.1.3.6 are not accepted
- Select FDG in your FedEx automation device
- Dangerous Goods surcharge applies
- If you are shipping from the European Union, the United Kingdom, Norway, and Switzerland to a country/territory other than the European Union, the United Kingdom, Norway, and Switzerland, then please refer to 'Air' section of this document.

### Documentation

- ADR declaration or Multimodal Dangerous Goods Form

### Packaging

- Strong rigid outer packaging
- UN number on the package

#### Limit per package:

333 KG (NET)

### Required labels / marks



FedEx Express does not provide DG Labels. Customers may order required labels or marks from vendors, such as those at [www.iata.org/labels](http://www.iata.org/labels).

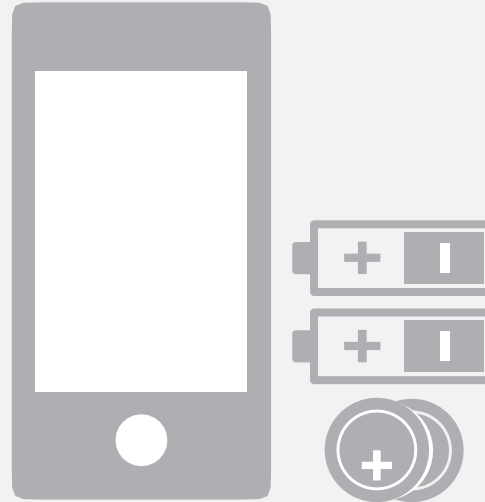
# Shipping Sodium Ion batteries or cells by road



## Lithium **ion** batteries or cells



Batteries/cells only

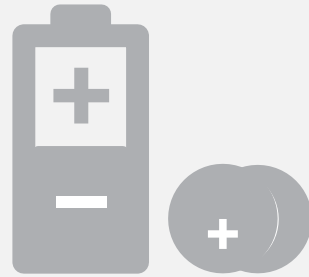


Packed with equipment  
(separate in same package)



Contained  
in equipment





Cells **up to** 20 Wh  
Batteries **up to** 100 Wh

UN 3551, Sodium Ion Batteries —  
Special Provision 188



Cells **over** 20 Wh  
Batteries **over** 100 Wh

UN 3551, Sodium Ion Batteries — Fully  
regulated



Cells up to 20 Wh  
Batteries up to 100 Wh

UN 3551, Sodium Ion Batteries —  
Special Provision 188

General restrictions

- Acceptable to/from European Dangerous Goods locations only where there is no Air connection in the routing of the shipment
- Batteries/cells known to be damaged or defective are prohibited from transport
- Waste batteries and batteries being shipped for recycling/disposal are prohibited from transport

FedEx Express restrictions

- FedEx Economy shipments of UN 3090, UN 3480 or UN 3551 offered in compliance with ADR Special Provision 188 will be acceptable for carriage only in Economy intra Europe services
- Select EBB in your FedEx automation device
- FedEx Sodium Battery surcharge apply.
- If you are shipping from the European Union, the United Kingdom, Norway, and Switzerland to a country/territory other than the European Union, the United Kingdom, Norway, and Switzerland, then please refer to 'Air' section of this document.

Documentation

- None

Packaging

- Strong rigid outer packaging

Limit per package:

Package shall not exceed 30 kg gross weight

Required labels / marks



Phone number on Battery Mark is optional

FedEx Express does not provide DG Labels. Customers may order required labels or marks from vendors, such as those at [www.iata.org/labels](http://www.iata.org/labels).



## Cells over 20 Wh Batteries over 100 Wh

UN 3551, Sodium Ion Batteries —  
Fully Regulated

### General restrictions

- Acceptable to/from European Dangerous Goods locations only where there is no Air connection in the routing of the shipment
- Batteries/cells known to be damaged or defective are prohibited from transport
- Waste batteries and batteries being shipped for recycling/disposal are prohibited from transport

### FedEx Express restrictions

- Shipments exceeding limits of ADR 1.1.3.6 are not accepted
- Select FDG in your FedEx automation device
- Dangerous Goods surcharge applies
- If you are shipping from the European Union, the United Kingdom, Norway, and Switzerland to a country/territory other than the European Union, the United Kingdom, Norway, and Switzerland, then please refer to 'Air' section of this document.

### Documentation

- ADR declaration or Multimodal Dangerous Goods Form

### Packaging

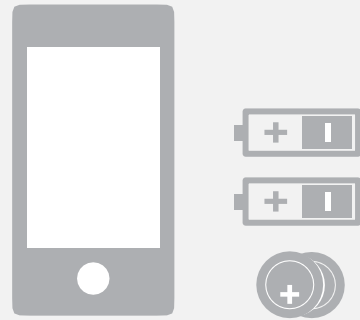
- UN number on the package
- UN specification packaging required (PGII standards)
- In addition, for cells or batteries with a gross mass of 12 kg or more, employing a strong, impact resistant outer casing, and assemblies of such cells or batteries:
  - a) Strong outer packaging;
  - b) Protective enclosures (e.g., fully enclosed or wooden slatted crates); or
  - c) Pallets or other handling devices.

**Limit per package:**  
333 kg (NET)

### Required labels / marks

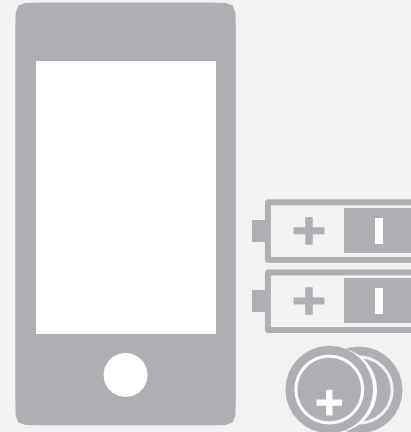


FedEx Express does not provide DG Labels. Customers may order required labels or marks from vendors, such as those at [www.iata.org/labels](http://www.iata.org/labels).



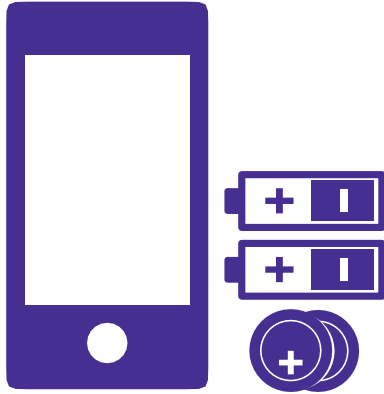
Cells **up to 20 Wh**  
Batteries **up to 100 Wh**

UN 3552, Sodium Ion Batteries Packed with  
Equipment - Complying with Special  
Provision 188



Cells **over 20 Wh**  
Batteries **over 100 Wh**

UN 3552, Sodium Ion Batteries Packed with  
Equipment — Fully Regulated



Cells up to 20 Wh  
Batteries up to 100 Wh

UN 3552, Sodium Ion Batteries Packed with  
Equipment - ADR Special Provision 188

## General restrictions

- Acceptable to most locations
- Batteries/cells known to be damaged or defective are prohibited from transport
- Waste batteries and batteries being shipped for recycling/disposal are prohibited from transport

## FedEx Express restrictions

- Select ELB in your FedEx automation device
- FedEx Sodium Battery surcharge apply.
- If you are shipping from the European Union, the United Kingdom, Norway, and Switzerland to a country/territory other than the European Union, the United Kingdom, Norway, and Switzerland, then please refer to 'Air' section of this document.

## Documentation

- None

## Packaging

- Strong rigid outer packaging

### Limit per package:

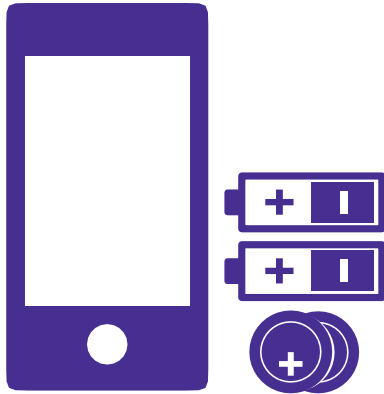
None

## Required labels / marks



Phone number on Battery Mark is optional

FedEx Express does not provide DG Labels. Customers may order required labels or marks from vendors, such as those at [www.iata.org/labels](http://www.iata.org/labels).



## Cells over 20 Wh Batteries over 100 Wh

UN 3552, Sodium Ion Batteries Packed with  
Equipment — Fully Regulated

### General restrictions

- Acceptable to/from European Dangerous Goods locations only where there is no Air connection in the routing of the shipment
- Batteries/cells known to be damaged or defective are prohibited from transport
- Waste batteries and batteries being shipped for recycling/disposal are prohibited from transport

### FedEx Express restrictions

- Shipments exceeding limits of ADR 1.1.3.6 are not accepted
- Select FDG in your FedEx automation device
- Dangerous Goods surcharge applies
- If you are shipping from the European Union, the United Kingdom, Norway, and Switzerland to a country/territory other than the European Union, the United Kingdom, Norway, and Switzerland, then please refer to 'Air' section of this document.

### Documentation

- ADR declaration or Multimodal Dangerous Goods Form

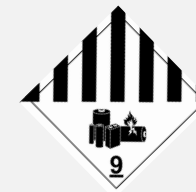
### Packaging

- UN number on the package
- UN specification packaging required (PGII standards)

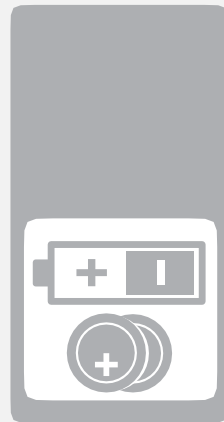
#### Limit per package:

333 KG (NET)

### Required labels / marks



FedEx Express does not provide DG Labels. Customers may order required labels or marks from vendors, such as those at [www.iata.org/labels](http://www.iata.org/labels).



Cells **up to** 20 Wh  
Batteries **up to** 100 Wh

UN 3552, Sodium Ion Batteries — Special  
Provision 188



Cells **over** 20 Wh  
Batteries **over** 100 Wh

UN 3552, Sodium Ion Batteries –  
Fully Regulated



## Select quantity



Cells up to 20 Wh  
Batteries up to 100 Wh



Up to 4 cells  
or 2 batteries



More than 4 cells  
or 2 batteries

UN 3552, Sodium Ion Batteries contained in Equipment — Special Provision 188



Cells up to 20 Wh  
Batteries up to 100 Wh  
**Up to 4 cells or 2 batteries**

UN 3552, Sodium Ion Batteries Contained in  
Equipment — Special Provision 188

General restrictions

- Acceptable to most locations
- Batteries/cells known to be damaged or defective are prohibited from transport
- Waste batteries and batteries being shipped for recycling/disposal are prohibited from transport

FedEx Express restrictions

- No Dangerous Goods surcharge
- If you are shipping from the European Union, the United Kingdom, Norway, and Switzerland to a country/territory other than the European Union, the United Kingdom, Norway, and Switzerland, then please refer to 'Air' section of this document.

Documentation

- None

Packaging

- Strong rigid outer packaging

Limit per package:

None

Required labels / marks

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



Cells up to 20 Wh  
Batteries up to 100 Wh  
More than **4 cells** or **2 batteries**  
UN 3552, Sodium Ion Batteries Contained in  
Equipment — Special Provision 188

General restrictions

- Acceptable to most locations
- Batteries/cells known to be damaged or defective are prohibited from transport
- Waste batteries and batteries being shipped for recycling/disposal are prohibited from transport

FedEx Express restrictions

- Select ELB in your FedEx automation device
- FedEx Sodium Battery surcharge apply.
- If you are shipping from the European Union, the United Kingdom, Norway, and Switzerland to a country/territory other than the European Union, the United Kingdom, Norway, and Switzerland, then please refer to 'Air' section of this document.

Documentation

- None

Packaging

- Strong rigid outer packaging

Limit per package:

None

Required labels / marks



Phone number on Battery Mark is optional

FedEx Express does not provide DG Labels. Customers may order required labels or marks from vendors, such as those at [www.iata.org/labels](http://www.iata.org/labels).

Exception

The completed Battery Mark requirement does not apply to:

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



## Cells over 20 Wh Batteries over 100 Wh

UN 3552, Sodium Ion Batteries Contained in  
Equipment — Fully Regulated

### General restrictions

- Acceptable to/from European Dangerous Goods locations only where there is no Air connection in the routing of the shipment
- Batteries/cells known to be damaged or defective are prohibited from transport
- Waste batteries and batteries being shipped for recycling/disposal are prohibited from transport

### FedEx Express restrictions

- Shipments exceeding limits of ADR 1.1.3.6 are not accepted
- Select FDG in your FedEx automation device
- Dangerous Goods surcharge applies
- If you are shipping from the European Union, the United Kingdom, Norway, and Switzerland to a country/territory other than the European Union, the United Kingdom, Norway, and Switzerland, then please refer to 'Air' section of this document.

### Documentation

- ADR declaration or Multimodal Dangerous Goods Form

### Packaging

- Strong rigid outer packaging
- UN number on the package

#### Limit per package:

333 KG (NET)

### Required labels / marks



FedEx Express does not provide DG Labels. Customers may order required labels or marks from vendors, such as those at [www.iata.org/labels](http://www.iata.org/labels).

A photograph of a FedEx warehouse interior, overlaid with a purple-to-orange gradient. In the foreground, a worker in a dark FedEx uniform is scanning a box with a handheld device. The box is labeled 'FedEx Large Box' and has a 'UNSAFE' warning sticker. In the background, another worker is visible near a pallet jack and high shelving units filled with boxes. The text 'Thank You' is centered in white.

# Thank You

# Appendix

Lithium or Sodium  
battery in blister pack

Cushioning

Nonconductive  
dividers

Sturdy outer box

Lithium battery mark  
UN 3481, UN 3091 or UN  
3552



## Section II Battery Packaging Guidelines

To comply with Section II IATA shipping requirements, shipments containing lithium batteries and cells must comply with specific packaging guidelines.

- Ensure that lithium/sodium batteries are individually packaged in fully enclosed inner packaging such as a plastic blister wrap or pasteboard to provide protection for each battery.
- Shield and protect batteries to prevent short circuits or contact with conductive materials within the packaging that could cause short circuits.
- Ensure that packaging is proven (i.e., tested) to meet the requirements of each test in the UN Manual of Tests and Criteria, Part III, Sub-Section 38.3.
- Make sure that batteries are completely enclosed (such as in equipment or surrounded by plastic with void space filled to prevent movement), except when the proper shipping names end with “contained in equipment.”
- Place contents in a sturdy outer container.
- Provide correct labelling and documentation.

Certain fully regulated Section IA and Section I Packing Instructions require UN specification packaging that meets Packing Group II performance standards. Refer to the specific IATA Packing Instruction for complete packaging requirements.



## When preparing your shipment **offline**

IATA has reported that lithium batteries are now the preferred energy source for many consumer goods ranging from mobile phones and children's toys to cars and e-bikes. Such shipments are however considered dangerous goods and can pose a safety risk if not prepared in accordance with transport regulations. Click [here](#) to get more information.

### Mitigate risk and improve safety

From now on, when you prepare shipments containing lithium batteries Section II (UN3481, UN3091 or UN3552) using FedEx Ship Manager® Software, FedEx Ship Manager® Server, FedEx Web Services or FedEx® Compatible solutions, please indicate which type(s) of lithium/sodium batteries you have included in your shipment.

As Section II lithium or sodium batteries are less regulated than other type of lithium or sodium batteries, your selection will help us increase their visibility throughout our network and ensure the safety and integrity of your dangerous goods shipments until their final destinations.

### How to specify in your application

#### FedEx Ship Manager® Software

- Open your FedEx Ship Manager
- Select **Ship** and then **Create a Shipment** to complete your shipment details
- Under **Special Handling**, tick “Lithium Batteries/Cells” and click **Edit** to select the description that applies to your shipment:
  - Ion Packed with Equipment (UN 3481, PI966)
  - Ion Contained in Equipment (UN 3481, PI967)
  - Metal Packed with Equipment (UN 3091, PI969)
  - Metal Contained in Equipment (UN 3091, PI970)
  - Sodium Ion Packed with Equipment (UN 3552, PI977)

#### To learn more

- Visit our page dedicated to [lithium battery shipping](#).
- Contact us at [fedex.com/support](https://fedex.com/support) and ask for the Dangerous Goods Specialist
- Read more about lithium batteries in the IATA Dangerous Goods Regulations Manual available for purchase at [iata.org](https://www.iata.org).

This manual contains information on lithium battery packing, marking, labelling & documentation.

#### FedEx Ship Manager® Server, FedEx Web Services or FedEx® Compatible solutions

- Open your preferred shipping solution
- Complete your shipment details as you would normally do
- Under the Dangerous Goods section, specify the relevant Lithium Batteries/Cells classifications that apply to your shipment:
  - Lithium Ion Packed with Equipment (UN 3481, PI966)
  - Lithium Ion Contained in Equipment (UN 3481, PI967)
  - Lithium Metal Packed with Equipment (UN 3091, PI969)
  - Lithium Metal Contained in Equipment (UN 3091, PI970)
  - Sodium Ion Packed with Equipment (UN 3552, PI977)
  - Sodium Ion Contained in Equipment (UN 3552, PI978)

Please click [here](#) for the latest updates, developer guides and other information on your preferred shipping application from the FedEx Developer Resource Centre.

# When preparing your shipment online

IATA has reported that lithium batteries are now the preferred energy source for many consumer goods ranging from mobile phones and children's toys to cars and e-bikes. Such shipments are however considered dangerous goods and can pose a safety risk if not prepared in accordance with transport regulations.

Click [here](#) to get more information.

### Mitigate risk and improve safety

From now on, when you prepare shipments containing lithium batteries Section II (UN3481, UN3091 and UN3552) using FedEx Ship Manager™ at fedex.com please indicate which type(s) of lithium batteries you have included in your shipment.

As Section II lithium or sodium batteries are less regulated than other type of lithium or sodium batteries, your selection will help us increase their visibility throughout our network; and ensure the safety and integrity of your dangerous goods shipments until their final destinations.

### Easy to use

- In the header at the top of this page, select Ship and then Ship online – all features
- Enter your login & password, if you are not logged in yet
- Select Ship and then Create a Shipment to complete your shipment details
- Under the Special Services (optional) section, select “Lithium Batteries/Cells” and the description that applies to your shipment:
  - Lithium Ion Batteries/Cells packed with equipment (UN 3481 - Packing Instruction 966)
  - Lithium Ion Batteries/Cells contained in equipment (UN 3481 - Packing Instruction 967)
  - Lithium Metal Batteries/Cells packed with equipment (UN 3091 - Packing Instruction 969)
  - Lithium Metal Batteries/Cells contained in equipment (UN 3091 - Packing Instruction 970)
  - Sodium Ion Packed with Equipment (UN 3552, PI977)

#### To learn more

- Sodium Ion Contained in Equipment (UN 3552, PI978)
- Visit our page dedicated to [lithium battery shipping](#).
- Contact us at fedex.com/support and ask for the Dangerous Goods Specialist
- Read more about lithium batteries in the IATA Dangerous Goods Regulations Manual available for purchase at [iata.org](#).  
This manual contains information on lithium battery packing, marking, labelling & documentation.

## Battery powered vehicle:

Effective January 1, 2025, the UN number UN3171 (battery-powered vehicle) will apply only to vehicles powered by **wet batteries**.

As of that date, Lithium and Sodium battery-powered vehicles will have their own specific UN numbers:

- UN 3556 – Vehicle Lithium-Ion battery powered
- UN 3557 – Vehicle Lithium Metal battery powered
- UN 3558 – Vehicle Sodium Ion battery powered

The most common Lithium and Sodium battery-powered vehicles shipped through our networks include E-bikes, Segways/Hoverboards, and (mobility) scooters.

For road transport, special provision SP666 may apply, potentially exempting these vehicles from ADR regulations if certain requirements are met.

Important considerations for SP666 Shipments:

- Not applicable for air service (IP/IPF/IE); road service only (RE/REF).
- Not applicable for destinations requiring air uplift (e.g. most European islands).
- Packaging must be free from DG labels and DG markings.
- It is recommended to include a statement on the package indicating it is shipped under SP666.

