



Getting started

Shipping lithium batteries and cells

This document reflects our 2024 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 batteries and cells — including instructions for packaging, documentation and labeling.

However, please note that this guide *does not apply* to lithium 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 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®
FedEx International Priority® Freight
FedEx International Priority® Express
FedEx International Economy®
FedEx International Economy® Freight



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



Lithium **ion**
batteries or cells

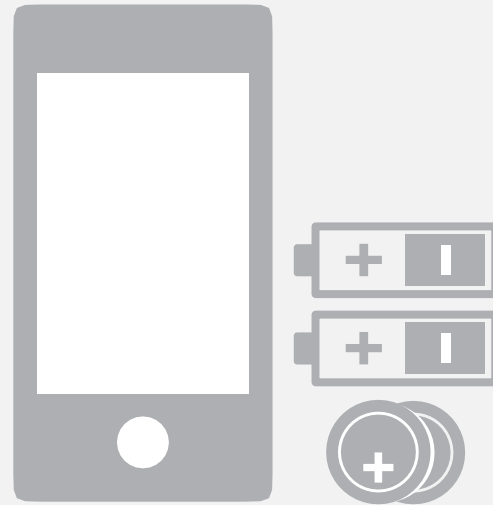
Shipping lithium metal
or **alloy** batteries or cells by air



Lithium metal or alloy batteries or cells



Batteries/cells only

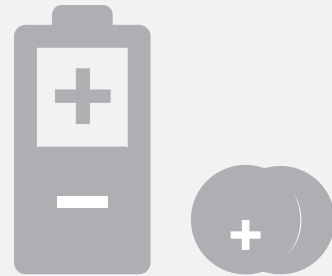


Packed with equipment
(separate in same package)



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 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

Required labels / marks



Phone number on Lithium 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.



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 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)

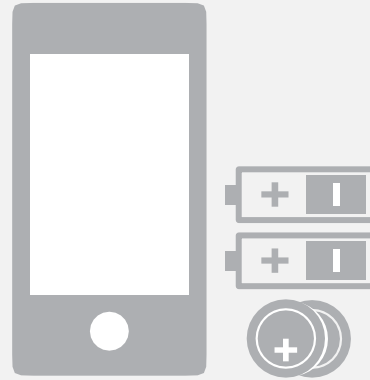
Limit per package:
Must be CAO = 35 kg

Required labels / marks



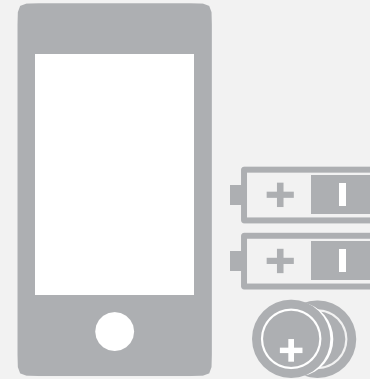
FedEx Express does not provide DG Labels. Customers may order required labels or marks from vendors, such as those at www.iata.org/labels.

Select capacity



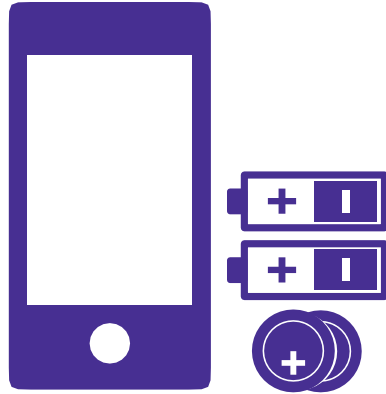
Cells **up to 1g**
Batteries **up to 2g**

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 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 lithium 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

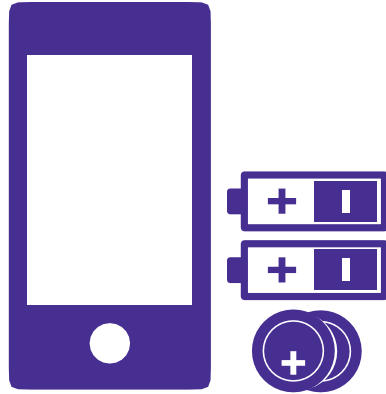
- Strong rigid outer packaging
 - The number of cells or batteries in each package must not exceed the number required for each equipment's operation plus two spare sets
 - A set of cells or batteries is the number of individual cells or batteries that are required to power each piece of equipment
 - If Special Provision A213 is applicable, 1.5 g and 10 Wh limits per battery apply
- Limit per package:**
- PAX = 5kg; CAO = 5kg

Required labels / marks



Phone number on Lithium 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.



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 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; CAO = 35kg

Required labels / marks



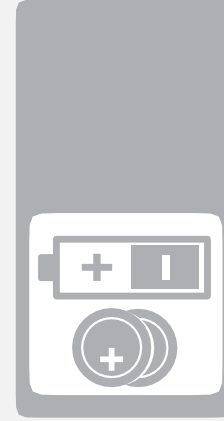
FedEx Express does not provide DG Labels. Customers may order required labels or marks from vendors, such as those at www.iata.org/labels.

Select capacity



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 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; CAO = 5kg

Required labels / marks

- Not applicable** as completed Lithium 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 Lithium 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 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 Lithium 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; CAO = 5kg

Required labels / marks



Phone number on Lithium 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.

Exception: The completed Lithium 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 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; CAO = 35kg

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.

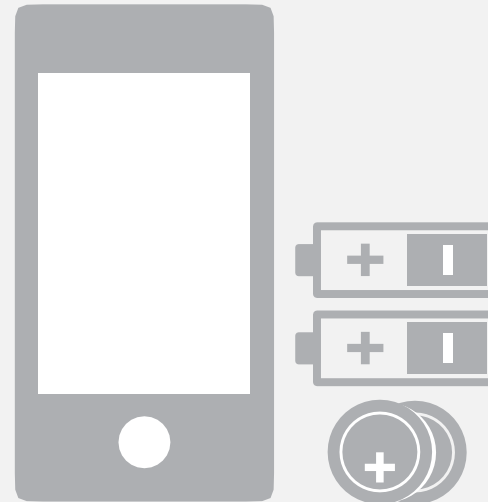
Shipping lithium ion by air



Lithium ion batteries or cells



Batteries/cells only

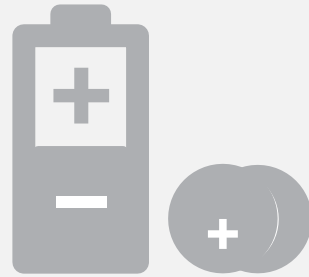


Packed with equipment
(separate in same package)



Contained
in equipment

Select capacity



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

UN 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 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

Required labels / marks



Phone number on Lithium 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.



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 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

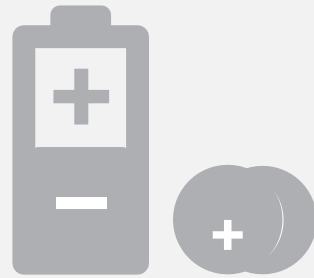
- UN number, proper shipping name and shipper/consignee name and address on the package
- UN specification packaging required (PGII standards)
- State of Charge (SoC) not exceeding 30% of their rated design capacity for cells and batteries without competent authority approval of both the state of origin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

Limit per package:
CAO = 35kg

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.



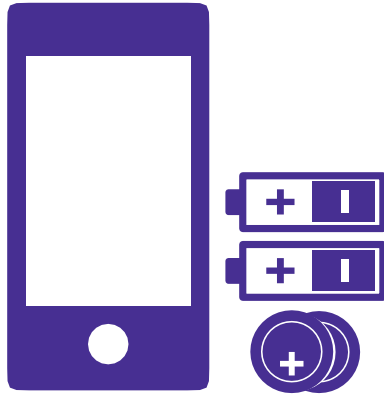
Cells **up to** 20 Wh
Batteries **up to** 100 Wh

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 3171) 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 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.

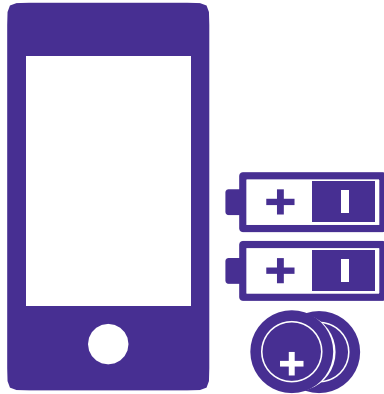
Limit per package:
PAX = 5 kg; CAO = 5 kg

Required labels / marks



Phone number on Lithium 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.



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 3171) 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 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

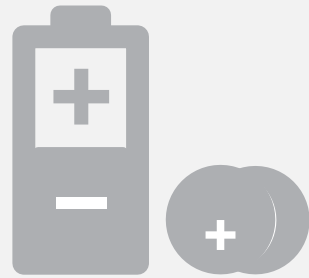
- Strong rigid outer packaging
- UN number, proper shipping name and shipper/consignee name and address on the package
- UN specification packaging required (PGII standards); may be inner or outer packaging as per PI 966
- The number of cells or batteries in each package must not exceed the number required 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; CAO = 35kg

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.



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 3171) 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 to begin the process.
- No Dangerous Goods surcharge

Documentation

- None

Packaging

- Strong rigid outer packaging

Limit per package:

PAX = 5 kg; CAO = 5kg

Required labels / marks

Not applicable as 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 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

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 3171) 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 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.
- No Dangerous Goods surcharge

Documentation

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

Packaging

- Strong rigid outer packaging

Limit per package:
PAX = 5 kg; CAO = 5kg

Required labels / marks



Phone number on Lithium 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.

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 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 3171) 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 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; CAO = 35kg

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.

What are you shipping?



BY ROAD

Including:
FedEx® Regional Economy
FedEx® Regional Economy Freight
FedEx Priority Overnight®



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



Lithium **ion**
batteries or cells

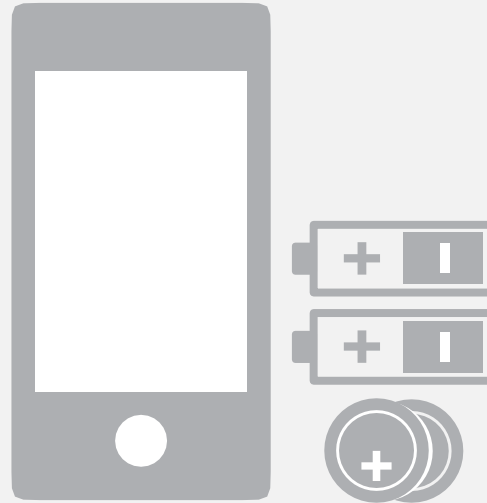
Shipping lithium metal or **alloy** batteries or cells by road



Lithium metal or alloy batteries or cells



Batteries/cells only

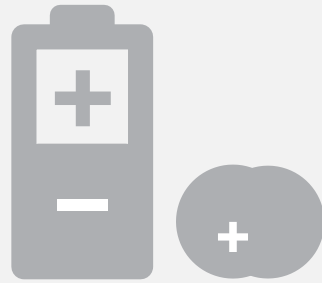


Packed with equipment
(separate in same package)



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 Lithium 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.



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.

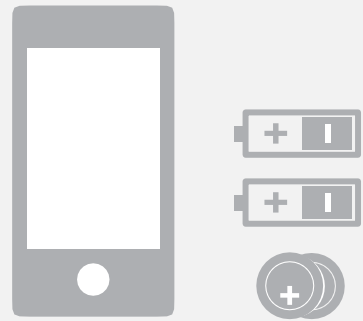
Limit per package: 333 kg

Required labels / marks



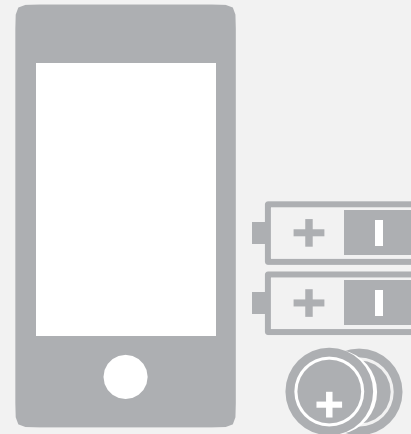
FedEx Express does not provide DG Labels. Customers may order required labels or marks from vendors, such as those at www.iata.org/labels.

Select capacity



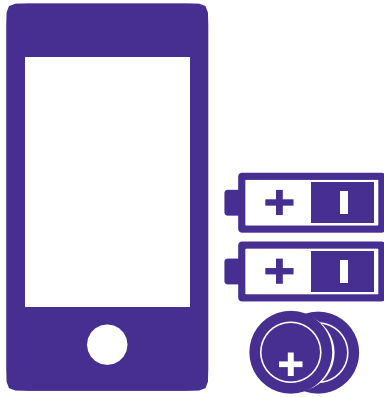
Cells up to 1g
Batteries up to 2g

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:

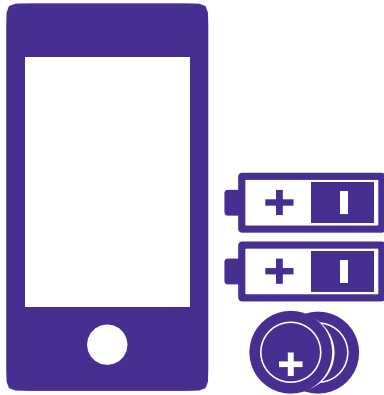
None

Required labels / marks



Phone number on Lithium 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.



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

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.

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 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 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 Lithium 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.

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

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.

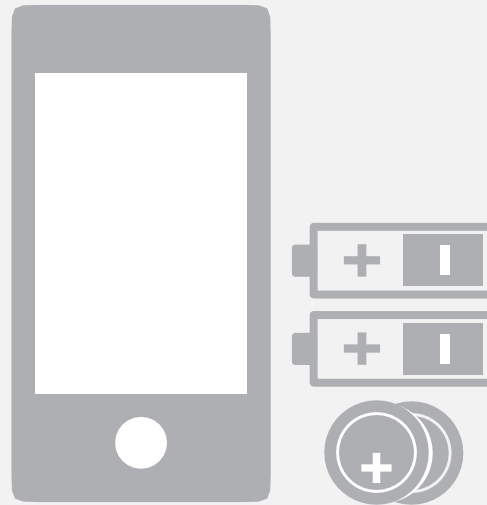
Shipping lithium ion by road



Lithium ion batteries or cells



Batteries/cells only

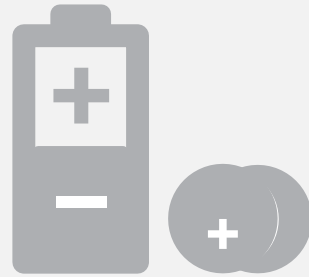


Packed with equipment
(separate in same package)



Contained
in equipment

Select capacity



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

UN 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 Lithium 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.



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.

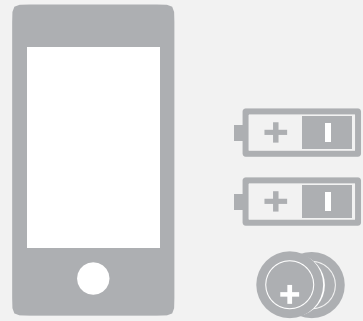
Limit per package:
333 kg

Required labels / marks



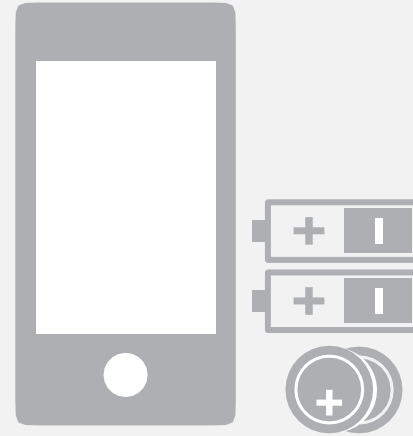
FedEx Express does not provide DG Labels. Customers may order required labels or marks from vendors, such as those at www.iata.org/labels.

Select capacity



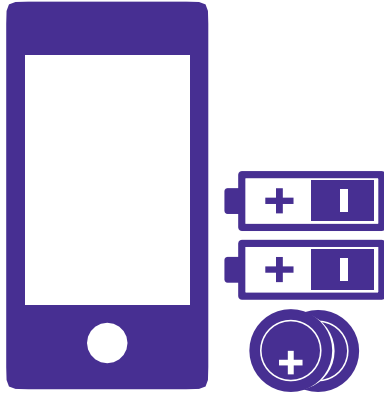
Cells **up to** 20 Wh
Batteries **up to** 100 Wh

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:

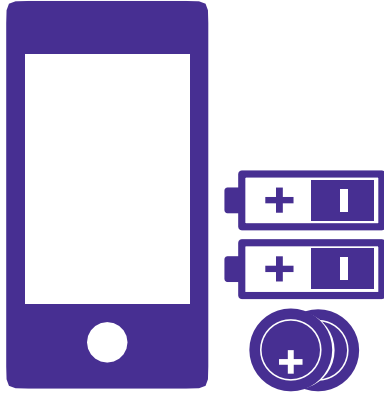
None

Required labels / marks



Phone number on Lithium 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.



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

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.

Select capacity



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 3480, Lithium Ion Batteries — 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 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 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 Lithium 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.

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 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

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.



Thank You

Appendix

Lithium metal battery
in blister pack

Cushioning

Nonconductive
dividers

Sturdy outer box

Lithium battery mark
UN 3481 or UN 3091



Section II Lithium 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 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 lithium 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 lithium 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) using **FedEx Ship Manager® Software, FedEx Ship Manager® Server, FedEx Web Services or FedEx® Compatible solutions**, please indicate which type(s) of lithium batteries you have included in your shipment.

As Section II lithium batteries are less regulated than other type of lithium 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)

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:
 - 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)

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

To learn more

- 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](https://www.iata.org). This manual contains information on lithium battery packing, marking, labelling & documentation.

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) 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 batteries are less regulated than other type of lithium 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)

To learn more

- 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](https://www.iata.org). This manual contains information on lithium battery packing, marking, labelling & documentation.