LITHIUM ION BATTERIES

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

Exception: If the only lithium batteries are those contained in temperature control devices and the lithium batteries are Section II. The package must also not require the lithium battery mark or lithium battery handling label and ELB (FedEx Express DG handling code for Section II batteries) must not be selected in the automation device. [FX-05C]
- Call FedEx customer service and ask for the International Hotline/Specialist to check on commodity acceptability for international shipments

** Check: http://images.fedex.com/us/services/pdf/LithiumBatteries_Limitations.pdf

Section IA
Acceptable to dangerous goods locations where UN3480 is not prohibited.**
Cells greater than 20Wh; and Batteries greater than 100Wh

- Shipper’s Declaration required in net weight KG.
- UN number, proper shipping name and shipper/consignee name and address on the package
- UN specification packaging required (PGII standards)
- Lithium Battery Class 9 Hazard label or Class 9 Miscellaneous Dangerous Goods label (See Figure 1 or 2)
- Cargo Aircraft Only (CAO) label required (See Figure 5)
- Dangerous goods surcharge
- State of charge (SoC) not exceeding 30% of their rated design capacity for cells and batteries without competent authority approval of both the state of origin and state of the operator

Limit per package:
CAO = 35kg

Section IB
Acceptable to dangerous goods locations where UN3480 is not prohibited.**
Cells equal to or less than 20Wh; and Batteries equal to or less than 100Wh

- Shipper’s Declaration required in net weight KG.
- IBA on Shippers Declaration after packing Instruction
- UN number, proper shipping name and shipper/consignee name and address on the package
- Strong rigid outer packaging
- Lithium Battery Class 9 Hazard label or Class 9 Miscellaneous Dangerous Goods label (See Figure 1 or 2)
- Completed Lithium Battery mark or Lithium Battery label (See Figure 3 or 4)
- Cargo Aircraft Only (CAO) label required (See Figure 5)
- Dangerous goods surcharge
- State of charge (SoC) not exceeding 30% of their rated design capacity for cells and batteries without competent authority approval of both the state of origin and state of the operator

Limit per package:
CAO = 10kg

~ Or ~

Section II
- Not accepted per IATA operator variation FX-05A; must be offered as Section IA or IB.
FedEx Express does not provide these DG Labels. Customers may order these labels from vendors, such as those at www.iata.org/labels.

Lithium Battery Class 9 Hazard Label
Figure 1

Class 9 Miscellaneous Dangerous Goods Hazard Label
Figure 2

Lithium Battery Mark
Figure 3
Shipper must add UN number(s). It should be 12 mm high
AND
Shipper must complete phone number portion of label.

Lithium Battery Label
Figure 4
“Lithium ion battery” OR
“Lithium metal battery” AND
Shipper must complete phone number portion of label. AND
Mark the UN number(s) on the package adjacent to the label per FX-05D.
LITHIUM ION BATTERIES

Effective January 5, 2018

**Section I**
Acceptable to dangerous goods locations
Only. Cells greater than 20Wh; and Batteries greater than 100Wh

- Shipper’s Declaration required in net weight KG.
- UN number, proper shipping name and shipper/consignee name and address on the package
- UN specification packaging required (PGII standards)
- Lithium Battery Class 9 Hazard label or Class 9 Miscellaneous Dangerous Goods label (See Figure 1 or 2)
- Dangerous goods surcharge
- 2 spare cells or batteries per device maximum

**Limit per package:**
PAX = 5kg
CAO = 35kg

**Section II**
Acceptable to most locations.
Cells equal to or less than 20Wh; and Batteries equal to or less than 100Wh

- No Shipper’s Declaration
- Strong rigid outer packaging
- Completed Lithium Battery mark or Lithium Battery label (See Figure 3 or 4)
- When the lithium battery label (Figure 4) is used, the UN number must be on the package adjacent to the label.
- No Dangerous goods surcharge
- 2 spare cells or batteries per device maximum

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

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

- No Dangerous goods surcharge

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

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Lithium Ion

Lithium Ion Batteries packed with equipment
UN3481, P.I. 966

Lithium Ion Batteries contained in equipment
UN3481, P.I. 967

~ or ~

**Section I**
Acceptable to dangerous goods locations
Only. Cells greater than 20Wh; and Batteries greater than 100Wh

- Shipper’s Declaration required in net weight KG.
- UN number, proper shipping name and shipper/consignee name and address on the package
- Strong rigid outer packaging
- Lithium Battery Class 9 Hazard label or Class 9 Miscellaneous Dangerous Goods label (See Figure 1 or 2)
- Dangerous goods surcharge

**Limit per package:**
PAX = 5kg
CAO = 35kg

~ or ~

**Section II**
Acceptable to most locations.
Cells equal to or less than 20Wh; and Batteries equal to or less than 100Wh

- No Shipper’s Declaration
- Strong rigid outer packaging
- Completed Lithium Battery mark or Lithium Battery label if more than 4 cells and 2 batteries per package (See Figure 3 or 4)
- When the lithium battery label (Figure 4) is used, the UN number must be on the package adjacent to the label.

**Limit per package:**
PAX = 5kg
CAO = 5kg
Effective January 5, 2018

LITHIUM METAL BATTERIES

Section IA
Acceptable to dangerous goods locations where UN3090 is not prohibited.**
Cells greater than 1g and Batteries greater than 2g
• Shipper’s Declaration required in net weight KG.
• UN number, proper shipping name and shipper/consignee name and address on the package
• UN specification packaging required (PGII standards)
• Lithium Battery Class 9 Hazard label or Class 9 Miscellaneous Dangerous Goods label (See Figure 1 or 2)
• Cargo Aircraft Only (CAO) label required (See Figure 5)
• Dangerous goods surcharge
• Shipper must be on Section I (IA/IB) preapproval list (FX-05B)

Limit per package:
Must be on CAO = 35kg

Section IB
Acceptable to dangerous goods locations where UN3090 is not prohibited.**
Cells equal to or less than 1g; and Batteries equal to or less than 2g
• Shipper’s Declaration required in net weight KG.
• IB on Shipper’s Declaration after packing instruction
• UN number, proper shipping name and shipper/consignee name and address on the package
• Strong rigid outer packaging.
• Lithium Battery Class 9 Hazard label or Class 9 Miscellaneous Dangerous Goods label (See Figure 1 or 2)
• Completed Lithium Battery mark or Lithium Battery label (See Figure 3 or 4)
• Cargo Aircraft Only (CAO) label required (See Figure 5)
• Shipper must be on Section I (IA/IB) preapproval list (FX-05B)
• Dangerous goods surcharge

Limit per package:
Must be CAO = 2.5kg

Section II
Not accepted per IATA operator variation FX-05A; must be offered as Section IA or IB.

FedEx Express does not provide these DG Labels. Customers may order these labels from vendors, such as those at www.iata.org/labels.
Section I
Acceptable to Dangerous goods locations Only. Cells greater than 1g; and Batteries greater than 2g

- Shipper’s Declaration required in net weight KG.
- UN number, proper shipping name and shipper/consignee name and address on the package
- UN specification packaging required (PGII standards)
- Lithium Battery Class 9 Hazard label or Class 9 Miscellaneous Dangerous Goods label (See Figure 1 or 2)
- Dangerous goods surcharge
- 2 spare cells or batteries per device maximum

Limit per package:
PAX = 5kg
CAO = 35kg

Section II
Acceptable to most locations. Cells equal to or less than 1g; and Batteries equal to or less than 2g

- No Shipper’s Declaration
- Strong rigid outer packaging
- Completed Lithium Battery mark or Lithium Battery label (See Figure 3 or 4)
- When the lithium battery label (Figure 4) is used, the UN number must be on the package adjacent to the label.
- No Dangerous goods surcharge
- 2 spare cells or batteries per device maximum

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

Section I
Acceptable to dangerous goods locations Only. Cells greater than 1g; and Batteries greater than 2g

- 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
- Lithium Battery Class 9 Hazard label or Class 9 Miscellaneous Dangerous Goods label (See Figure 1 or 2)
- Dangerous goods surcharge

Limit per package:
PAX = 5kg
CAO = 35kg

Lithium Metal

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

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

If you have questions please contact the Dangerous Goods/Hazardous Materials Hotline at (800) GOFEDEX and press “81” or say dangerous goods. Press “4” to reach next available agent.
DISCLAIMER:
This guide is based upon the 2018 “IATA Dangerous Goods Regulations” and provides a general overview of lithium battery shipping requirements. It does not provide complete shipping information. Consult the packing instruction and all applicable Special Provisions for the product being shipped.

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