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

~ Or ~

**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.
- IB on Shippers Declaration after packing Instruction
- UN number, proper shipping name and shipper/consignee name and address on the package
- Strong rigid outer packaging
- 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 = 10kg

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

Figure 1
Lithium Battery Class 9 Hazard Label

Figure 2
Class 9 Miscellaneous Dangerous Goods Hazard Label

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

Figure 4
Lithium Battery Label
“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.

Figure 5
**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

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**LITHIUM ION BATTERIES**

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

Lithium Ion Batteries contained in equipment
UN3481, P.I. 967
Effective January 5, 2018

**LITHIUM METAL BATTERIES**

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**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

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**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

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

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

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Figure 1
Lithium Battery Class 9 Hazard Label

Figure 2
Class 9 Miscellaneous Dangerous Goods Hazard Label

Figure 3
Lithium Battery Mark

Figure 4
Lithium Battery Label

Figure 5
CARGO AIRCRAFT ONLY
LITHIUM METAL BATTERIES

Effective January 5, 2018

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

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.

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