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

Limit per package:
CAO = 10kg

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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Lithium Battery Class 9 Hazard Label
Class 9 Miscellaneous Dangerous Goods Hazard Label
Lithium Battery Mark
Lithium Battery Label

Figure 1
Figure 2
Figure 3
Figure 4

Shipper must complete phone number portion of label. **

“Lithium ion battery” OR “Lithium metal battery” **

Mark the UN number(s) on the package adjacent to the label per FX-05D.

NOTE: FX-05D will have an effective date of July 1, 2017 in order to provide a 6 month transition.
LITHIUM ION BATTERIES

Lithium Ion

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 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 all locations. Cells equal to or less than 20Wh; and Batteries equal to or less than 100Wh
- Strong rigid outer packaging
- No Shipper's Declaration
- Completed Lithium Battery mark or Lithium Battery label (See Figure 3 or 4)
- No Dangerous goods surcharge
- 2 spare cells or batteries per device maximum

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

~ OR ~

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

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

~ OR ~

Section II
Acceptable to all locations. Cells equal to or less than 20Wh; and Batteries equal to or less than 100Wh
- Strong rigid outer packaging
- No Shipper's Declaration
- Completed Lithium Battery mark or Lithium Battery label (See Figure 3 or 4) when more than 4 cells or 2 batteries per package.

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
Section IA
Acceptable to dangerous goods locations where UN3090 is not prohibited.**
If Cells greater than 1g and Batteries greater than 2g
- Shipper’s Declaration required in net weight KG.
- 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

~ or ~

Section IB
Acceptable to dangerous goods locations where UN3090 is not prohibited.**
If Cells equal to or less than 1g; and Batteries equal to or less than 2g
- Shipper’s Declaration required in net weight KG.
- 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)
- Dangerous goods surcharge
- Shipper must be on Section I (IA/IB) preapproval list (FX-05B)
- IB on Shipper’s Declaration
- Cargo Aircraft Only (CAO) label required (See Figure 5)

Limit per package:
Must be CAO = 2.5kg

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

Lithium Battery Label
Figure 4

CAUTION:
DO NOT LOAD OR TRANSPORT PACKAGES IF DAMAGED
For more Information, call xxx.xxx.xxx

CARGO AIRCRAFT ONLY
FORBIDDEN IN PASSENGER AIRCRAFT

Figure 5

Shipper must add UN number(s). AND
Shipper must complete phone number portion of label.

“Lithium ion battery” OR “Lithium metal battery” AND
Mark the UN number(s) on the package adjacent to the label per FX-05D.

NOTE: FX-05D will have an effective date of July 1, 2017 in order to provide a 6 month transition.
**DISCLAIMER:**
This guide is based upon the 2017 “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.