**LITHIUM ION BATTERIES**

**Note:**
- There are no Packing Groups for Lithium batteries in the 2016 IATA Manual. A Packing Group must not be listed on the shipper’s declaration.
- FedEx Express will not accept any item with an A183 Special Provision, even with a Competent Authority approval. [FX-16]
- 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, 3.1, 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-07]

**Disclaimer:**
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 federal or state requirements.

These materials may be altered 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.

**Figure 1**

**CAUTION!**

Lithium ion battery
DO NOT LOAD OR TRANSPORT PACKAGE IF DAMAGED
For more information, call 1-800-243-0002

**Figure 2**

*Shipper must complete phone number portion of label.*

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**LIMITS PER PACKAGE:**
- **PAX = 5kg**
- **CAO = 35kg**

**Section IA**

Acceptable to dangerous goods locations if 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)
  - Class 9 label required (See Figure 1)
  - Dangerous goods surcharge

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

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**Section IB**

Acceptable to dangerous goods locations if 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.
  - Rigid outer packaging
  - Class 9 label required (See Figure 1)
  - Dangerous goods surcharge
  - Dangerous goods markings including net weight when required
  - IB on Shippers Declaration after packing Instruction
  - 4 new bullet of information required on the shipper’s declaration or alternate documentation as per packing instructions.

Limit per package:
- **PAX = 10kg**
- **CAO = 10kg**

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**Section II**

Acceptable to all locations where UN3480 is not prohibited.

- Cells equal to or less than 20Wh; and Batteries equal to or less than 100Wh
  - No Shipper’s Declaration
  - Completed IATA Lithium Battery Label (See Figure 2)
  - No Dangerous goods surcharge
  - Alternate documentation needed

Limit per package:
- Equal to or less than 2.7Wh = 2.5kg; or Greater than 2.7Wh but equal to or less than 20Wh = 8 cells; or Greater than 2.7 but equal to or less than 100Wh = 2 batteries

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**SECONDARY RECHARGEABLE Lithium Ion**

Lithium Ion Batteries packed with equipment

**UN3481, P.I. 966**

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

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**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)
  - Class 9 label required (See Figure 1)
  - Dangerous goods surcharge

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

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**Section II**

Acceptable to all locations.

- Cells equal to or less than 20Wh; and Batteries equal to or less than 100Wh
  - No Shipper’s Declaration
  - Completed IATA Lithium Battery Label (See Figure 2)
  - No Dangerous goods surcharge
  - Alternate documentation needed

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

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**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.
  - Class 9 label required (See Figure 1)
  - Dangerous goods surcharge

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

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**Section II**

Acceptable to all locations.

- Cells equal to or less than 20Wh; and Batteries equal to or less than 100Wh
  - No Shipper’s Declaration
  - Completed IATA Lithium Battery Label (See Figure 2)
  - No Dangerous goods surcharge
  - Alternate documentation needed

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

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**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.
  - Class 9 label required (See Figure 1)
  - Dangerous goods surcharge

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

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**Section II**

Acceptable to all locations.

- Cells equal to or less than 20Wh; and Batteries equal to or less than 100Wh
  - No Shipper’s Declaration
  - Completed IATA Lithium Battery Label (See Figure 2)
  - No Dangerous goods surcharge
  - Alternate documentation needed

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

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**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.
  - Class 9 label required (See Figure 1)
  - Dangerous goods surcharge

Limit per package:
- **PAX = 5kg**
- **CAO = 35kg**
LITHIUM METAL BATTERIES

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 specification packaging required (PGII standards)
- Class 9 label required
  (See Figure 1)
- CAO label required
- Dangerous goods surcharge
- Shipper must be on Section I (IA/IB) preapproval list (FX-07)

Limit per package:
Must be on CAO = 35kg

Section IA
Acceptable to dangerous goods locations if UN3090 is not prohibited.**
Cells greater than 1g and Batteries greater than 2g

- Shipper’s Declaration required in net weight KG.
- UN specification packaging required (PGII standards)
- Class 9 label required
  (See Figure 1)
- CAO label required
- Dangerous goods surcharge
- Shipper must be on Section I (IA/IB) preapproval list (FX-07)
Limit per package:
Must be on CAO = 35kg

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

- No Shipper’s Declaration
- Completed IATA Lithium Battery Label (See Figure 3)
- Dangerous goods surcharge
- Shipper must be on Section II preapproval list (FX-07)
- Alternate documentation needed

Limit per package:
Must be CAO = 2.5kg

Section IB
Acceptable to dangerous goods locations if UN3090 is not prohibited.**
Cells equal to or less than 1g; and Batteries equal to or less than 2g

- Shipper’s Declaration required in gross weight KG.
- Rigid outer packaging.
- Class 9 label required
  (See Figure 1)
- Completed IATA Lithium Battery Label (See Figure 3)
- Dangerous goods surcharge
- Shipper must be on Section I (IA/IB) preapproval list (FX-07)
- IB on Shipper’s Declaration
- Dangerous goods markings including net weight when required.
- CAO label required
- 4 new bullets of information required on the shipper’s declaration or alternate documentation as per packing instructions.

Limit per package:
Must be CAO = 35kg

* Shipper must complete phone number portion of label.

If you have questions please contact the Dangerous Goods/Hazardous Materials Hotline at (800) GOFEDEX and press “81” or say dangerous goods.