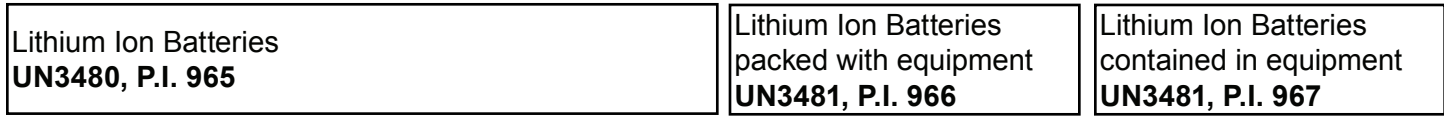
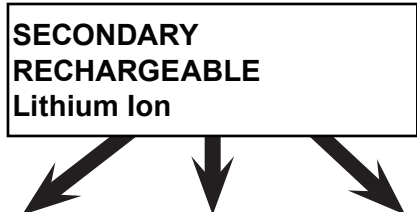


# LITHIUM ION BATTERIES

Note:

- There are no Packing Groups for lithium batteries in the 2015 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, 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]



**Section IA**  
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

**Section IB**  
Acceptable to dangerous goods locations only.  
Cells equal to or less than 20Wh; and batteries equal to or less than 100Wh

- Shipper's declaration required in net weight KG.
- Class 9 label required (See Figure 1)
- Completed IATA Lithium Battery Label (See Figure 2)
- Dangerous goods surcharge
- Dangerous goods markings including net weight when required.
- IB on shipper's declaration after Packing Instruction.
- 4 new bullets of information required on the shipper's declaration or alternate documentation as per the packing instructions.

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

**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

**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

~ or ~

~ or ~

~ or ~

**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:**  
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.

**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

**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) when more than 4 cells or 2 batteries per package
- No dangerous goods surcharge
- Alternate documentation needed.

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



**Figure 1**



**Figure 2 \***

\* Shipper must complete phone number portion of label.

**DISCLAIMER:**

This guide is based upon the 2014 "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 federal or state 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.

# LITHIUM METAL BATTERIES

**PRIMARY  
NON-RECHARGEABLE  
Lithium Metal**

**Lithium Metal Batteries  
UN3090, P.I. 968**

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

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

**Section IA**  
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 IB**  
Acceptable to dangerous goods locations only.  
Cells equal to or less than 1g; and batteries equal to or less than 2g

- Shipper's declaration required in net weight KG.
- 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 after Packing Instruction.
- Dangerous goods markings including net weight when required.
- 4 new bullets of information required on the shipper's declaration or alternate documentation as per the packing instructions.
- CAO label required

**Limit per package:**  
Must be CAO = 2.5kg

**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 specification packaging required (PGII standards)
- Class 9 label required (See Figure 1)
- Dangerous goods surcharge

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

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

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

~ or ~

~ or ~

~ or ~

**Section II**  
Acceptable to dangerous goods locations only.  
Cells equal to or less than 1g; and batteries equal to or less than 2g

- No shipper's declaration
- Completed IATA Lithium Battery Label AND FedEx Section II label (See Figures 3 and 4)
- No dangerous goods surcharge
- Shipper must be on Section II preapproval list (FX-07)
- Alternate documentation needed.

**Limit per package:**  
Equal to or less than 0.3g = 2.5kg; or greater than 0.3g but equal to or less than 1g = 8 cells; or greater than 0.3g but equal to or less than 2g = 2 batteries

**Section II**  
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)
- No dangerous goods surcharge
- Alternate documentation needed.

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

**Section II**  
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 if more than 4 cells and 2 batteries per package (See Figure 3)
- No dangerous goods surcharge
- Alternate documentation needed.

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



**Figure 1**



**Figure 3 \***



**Figure 4**

\* Shipper must complete phone number portion of label.