Lithium Batteries & Cells
Shipping Guide
Welcome

We are happy you decided to ship with us. Please take a few minutes to read the below page thoroughly, including the lithium battery prohibitions section. Our goal is for you to become familiar with the current Lithium Batteries & Cells Shipping Guide by following these simple instructions and for you to use it as an ongoing source for the proper packaging, documentation and labeling of lithium batteries.

**IMPORTANT: Lithium battery prohibitions**
Damaged, defective or recalled batteries are forbidden for air transport. However, batteries having some other defective feature (e.g., batteries with the incorrect model number on the label or batteries not holding enough charge) can still be shipped by air with proper packaging, labeling and documentation.

**For reference**
Lithium battery shipping information for air transport referenced in this guide (including pictured labels) are based on the 2017 International Air Transport Association (IATA) Dangerous Goods Regulations (DGR) 58th Edition section 7.3.18.1, 7.3.18.2, 7.4.2, 7.4.8 and 7.1.C. Lithium battery shipping information for ocean transport referenced in this guide (including pictured labels) are based off the International Maritime Dangerous Goods Code 2014 Edition, 5.2.2.2.2 and the International Maritime Dangerous Goods Code 2016 Edition 5.2.1.10.2 and 5.2.2.2.2.

**Reminders and other disclaimers**
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I have read through and agree to the above information and terms.
Choose shipping method (Click on your choice)

Ship by air

Ship by ocean
Choose battery type (Click on your choice)

Ship by air

Lithium ion batteries or cells

Lithium metal batteries or cells
Choose package contents (Click on your choice)

- Batteries and cells only
- Packed with equipment (separate in the same package)
- Contained in equipment
Select type and weight

- **Batteries and cells only**
- **Batteries and cells ≤ 0.3g**
- **Cells > 0.3g and ≤ 1g**
- **Batteries > 0.3g and ≤ 2g**
- **Cells > 1g and batteries > 2g**
Batteries and cells only ≤ 0.3g

Packaging
- Each battery or cell must be protected against a short circuit and placed in an inner packaging that completely encloses the battery or cell, then placed in a strong rigid outer packaging.
- UN Specification Packaging is not required.
- Maximum 2.5 kg net qty of lithium metal cell or batteries per package "Cargo Aircraft Only" (CAO).

Documentation
- The following statements are required on the waybill: “Lithium Metal Batteries in compliance with Section II of PI968” and “Cargo Aircraft Only” or “CAO”

Required labeling
- Required labeling — valid now through December 31, 2018
- Required labeling — valid now and beyond January 1, 2019

UN 3090, Lithium Metal Batteries — PI968 Section II | Limit one package per consignment. If more than 1 package, you must send the package under PI1968 IB. Confirm with your carrier that they accept section II batteries.
Cells > 0.3g and ≤ 1g

≤ 8 cells

> 8 cells
LITHIUM METAL

Shipping instructions: Batteries & cells only

Packaging
- Each battery or cell must be protected against a short circuit and placed in an inner packaging that completely encloses the battery or cell, then placed in a strong rigid outer packaging
- UN Specification Packaging is not required
- Maximum 2.5 kg net qty of lithium metal cell or batteries per package "Cargo Aircraft Only" (CAO)

Documentation
- The following statements are required on the waybill: “Lithium Metal Batteries in compliance with Section II of PI968” and “Cargo Aircraft Only” or “CAO”

Required labeling
- Cells > 0.3g and ≤ 1g
- < 8 cells

UN 3090, Lithium Metal Batteries — PI968 Section II

Limit one package per consignment. If more than 1 package, you must send the package under PI968 IB.

Confirm with your carrier that they accept section II batteries.
Shipping instructions: Batteries & cells only

Packaging
- Each battery or cell must be protected against a short circuit and placed in an inner packaging that completely encloses the battery or cell, then placed in a strong rigid outer packaging.
- Maximum net weight per package is 2.5 kg.
- Cargo Aircraft Only.
- UN Specification Packaging is not required.

Documentation
- Shipper’s Declaration for Dangerous Goods (with IB noted in the authorization column for the declaration).
- Waybill should have the statement “Dangerous Goods as per attached DGD,” and if applicable, “CAO” or “Cargo Aircraft Only.”

Required labeling
- UN 3090, Lithium Metal Batteries — PI968 Section IB.

Cells > 0.3g and < 1g
- > 8 cells

IF DAMAGED
- DO NOT LOAD OR TRANSPORT
- PACKAGE IF DAMAGED

Minimum dimension 120mm
Minimum dimension 110mm

Valid now through December 31, 2018
Valid now and beyond January 1, 2019

For more information, call _______________
LITHIUM METAL

Select quantity (Click on your choice)

Batteries > 0.3g and ≤ 2g
≤ 2 batteries
> 2 batteries
**Lithium Batteries & Cells Shipping Guide by Air**

**Batteries > 0.3g and < 2g**

- Each battery or cell must be protected against a short circuit and placed in an inner packaging that completely encloses the battery or cell, then placed in a strong rigid outer packaging.
- Maximum quantity per package is 2 batteries.
- UN Specification Packaging is not required.
- Cargo Aircraft Only.

**Documentation**

- The following statements are required on the waybill: “Lithium Metal Batteries in compliance with Section II of PI968” and “Cargo Aircraft Only” or “CAO”

**Required labeling**

- UN 3090, Lithium Metal Batteries — PI968 Section II
- Limit one package per consignment. If more than one package, you must send the package under PI968 IB
- Confirm with your carrier that they accept section II batteries.

**Packaging**

- The following statements are required on the waybill: “Lithium Metal Batteries in compliance with Section II of PI968” and “Cargo Aircraft Only” or “CAO”

**Documents**

- Required labeling — valid now through December 31, 2018
- Required labeling — valid now and beyond January 1, 2019

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For more information, call ___________
LITHIUM METAL

Shipping instructions: Batteries & cells only

Packaging
- Each battery or cell must be protected against a short circuit and placed in an inner packaging that completely encloses the battery or cell, then placed in a strong rigid outer packaging
- Maximum net weight per package is 2.5 kg
- Cargo Aircraft Only
- UN Specification Packaging is not required

Documentation
- Shipper’s Declaration for Dangerous Goods (with IB noted in the authorization column for the declaration)
- Waybill should have the statement “Dangerous Goods as per attached DGD,” and if applicable, “CAO” or “Cargo Aircraft Only”

Required labeling
- Batteries > 0.3g and < 2g
- > 2 batteries

UN 3090, Lithium Metal Batteries — PI968 Section IB
**Shipping instructions:** Batteries & cells only

**Packaging**
- Each battery or cell must be protected against a short circuit and placed in an inner packaging that completely encloses the battery or cell, then placed in a strong rigid outer packaging.
- Maximum net quantity per package is 35 kg for Cargo Aircraft Only (CAO).
- UN Specification Packaging is not required.

**Documentation**
- Shipper’s Declaration for Dangerous Goods.
- Waybill should have the statement “Dangerous Goods as per attached DGD,” and if applicable, “CAO” or “Cargo Aircraft Only.”

**Required labeling**
- UN 3090, Lithium Metal Batteries — PI968 Section IA.
- **Required labeling** — valid now through December 31, 2018.
- **Required labeling** — valid now and beyond January 1, 2019.

Cells > 1g and batteries > 2g.
LITHIUM METAL

Select type and weight (Click on your choice)

Packed with equipment
(separate in the same package)

Cells ≤ 1g or batteries ≤ 2g

Cells > 1g or batteries > 2g
LITHIUM METAL

Shipping instructions: Packed with equipment

Packaging
- Each battery or cell must be protected against a short circuit and placed in an inner packaging that completely encloses the battery or cell, then placed in a strong outer packaging
- Equipment must be secured against movement within the outer-packaging, and against accidental activation
- Maximum number of batteries per package: Those necessary to power the equipment, plus 2 spares
- Maximum net quantity of lithium metal cells or batteries per package (exclusive of equipment): 5kg

Documentation
- The following statement is required on the waybill: “Lithium Metal Batteries in compliance with Section II of PI969

Required Labeling
- CAUTION!
- Lithium Battery
- DO NOT LOAD OR TRANSPORT PRODUCT IF DAMAGED
- Minimum dimension 120mm
- Minimum dimension 110mm
- For more information, call_____________

UN 3091, Lithium Metal Batteries Packed with Equipment — PI969 Section II
Each battery or cell must be protected against a short circuit and placed in an inner packaging that completely encloses the battery or cell, then placed in a strong outer packaging.

Equipment must be secured against movement within the outer-packaging, and against accidental activation.

If prepared for transport on Passenger Aircraft: 1) Each battery or cell must be packed in either a rigid metal intermediate or a metal outer packaging. 2) Each battery or cell must be surrounded by cushioning material that is non-combustible and non-conductive.

Maximum net quantity per package (exclusive of equipment): 5kg on Passenger and Cargo Aircraft (PAX) or 35 kg for Cargo Aircraft Only (CAO).

Waybill should have the statement “Dangerous Goods as per attached DGD,” and if applicable, “CAO” or “Cargo Aircraft Only.”

**Required Labeling**

- Required labeling — valid now through December 31, 2018
- Required labeling — valid now and beyond January 1, 2019

UN 3091, Lithium Metal Batteries Packed with Equipment — PI969 Section I
Select type and weight (Click on your choice)

- Contained in equipment
  - Cells ≤ 1g or batteries ≤ 2g
  - Cells > 1g or batteries > 2g
Lithium Batteries & Cells Shipping Guide by Air

Select quantity (Click on your choice)

- Cells ≤ 1g or batteries ≤ 2g
- ≤ 4 Cells or ≤ 2 batteries
- > 4 Cells or > 2 batteries
Shipping instructions: Contained in equipment

Lithium Batteries & Cells Shipping Guide by Air

Packaging
- The equipment must be packed in a strong rigid outer packaging constructed of suitable material of adequate strength and design in relation to the packaging's capacity and its intended use unless the cell or battery is afforded equivalent protection by the equipment in which it is contained
- Maximum 5 kg net quantity of lithium metal cells or batteries per package (exclusive of equipment)

Documentation
- Waybill

Required labeling
- Exempt from any marking and labeling requirements

UN 3091, Lithium Metal Batteries Contained in Equipment — PI970 Section II

< 4 Cells or < 2 batteries
Lithium Batteries & Cells Shipping Guide by Air

**Packaging**
- Each battery or cell must be protected against a short circuit and placed in an inner packaging that completely enclosed the battery or cell, then placed in a strong rigid outer packaging.
- UN Specification Packaging is not required.
- Equipment with batteries must be placed in outer packaging of suitable construction and strength so as to provide adequate protection, unless the battery is afforded equivalent protection by the equipment in which it is contained.
- Maximum 5 kg net quantity of lithium metal cells or batteries per package (exclusive of equipment) for either “Passenger and Cargo Aircraft” or “Cargo Aircraft Only”.

**Documentation**
- The following statement is required on the waybill: “Lithium Metal Batteries in compliance with Section II of PI970”.

**Required labeling**

- UN 3091, Lithium Metal Batteries Contained in Equipment — PI970 Section II
- CAUTION!

  Lithium ion battery
  DO NOT Clash OR TRANSPORT
  PACKING OR DAMAGE

  Required labeling — valid now through December 31, 2018

OR

- UN 3091

  For more information, call_____________

  Required labeling — valid now and beyond January 1, 2019

**Shipping instructions:** Contained in equipment

- > 4 Cells or > 2 batteries

- IF DAMAGED
  - DO NOT LOAD OR TRANSPORT
  - PACKAGE IF DAMAGED
Each battery or cell must be protected against a short circuit and placed in an inner packaging that completely encloses the battery or cell, then placed in a strong rigid outer packaging.

Maximum net quantity of lithium metal per piece of equipment must not exceed 500 g per battery and 12 g per cell.

Maximum net quantity per package (exclusive of equipment): 5 kg on Passenger and Cargo Aircraft (PAX) or 35 kg for Cargo Aircraft Only Shipments (CAO).

UN Packaging Specifications required.

Shipper’s Declaration for Dangerous Goods

Waybill should have the statement “Dangerous Goods as per attached DGD,” and if applicable, “CAO” or “Cargo Aircraft Only”

**Cells > 1g or batteries > 2g**

**Required labeling**

UN 3091, Lithium Metal Batteries Contained in Equipment — PI970 Section I

**Packaging**

**Documentation**
Choose package contents (Click on your choice)

- Batteries and cells only
- Packed with equipment (separate in the same package)
- Contained in equipment
LITHIUM ION

Select type and weight (Click on your choice)

Batteries and cells only

Batteries and cells ≤ 2.7 Wh

Batteries > 2.7 Wh, but ≤ 100 Wh

Cells > 2.7 Wh and ≤ 20 Wh

Cells > 20 Wh and batteries > 100 Wh
Shipping instructions: Batteries & cells only

**Packaging**
- Each battery or cell must be protected against a short circuit and placed in an inner packaging that completely encloses the battery and cell, then placed in a strong rigid outer packaging.
- For stand alone batteries, the State of Charge (SoC) should not exceed 30% of rated capacity.
- UN Specification Packaging is not required.
- Maximum 2.5 kg net qty per package.

**Documentation**
- The following statements are required on the waybill: “Lithium Ion Batteries in compliance with Section II of PI965” and “CAO” or “Cargo Aircraft Only.”

**Required labeling**
- UN 3480, Lithium Ion Batteries — PI965 Section II: Limit one package per consignment. If more than 1 package, you must send the package under PI965 IB.
- Confirm with your carrier that they accept section II batteries.
Cells > 2.7 Wh and ≤ 20 Wh

≤ 8 cells per package

> 8 cells per package
Lithium Batteries & Cells Shipping Guide by Air

**Packing**
- Each battery or cell must be protected against a short circuit and placed in an inner packaging that completely encloses the battery or cell, then placed in a strong rigid outer packaging.
- For stand alone batteries, the State of Charge (SoC) should not exceed 30% of rated capacity.
- UN Specification Packaging is not required.
- Maximum 8 cells per package.

**Documentation**
- The following statements are required on the waybill: “Lithium Ion Batteries in compliance with Section II of PI965” and “CAO” or “Cargo Aircraft Only”.

**Required labeling**
- Cells > 2.7 Wh and ≤ 20 Wh
  - ≤ 8 cells per package

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**Cells ≥ 8 Wh and < 20 Wh**

**Required labeling**
- Valid now through December 31, 2018
- Valid now and beyond January 1, 2019

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**UN 3480, Lithium Ion Batteries — PI965 Section II**
- Limit one package per consignment. If more than 1 package, you must send the package under PI965 IB.
- Confirm with your carrier that they accept section II batteries.

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**FedEx Trade Networks**

Lithium Batteries & Cells Shipping Guide by Air
Each battery or cell must be protected against a short circuit and placed in an inner packaging that completely encloses the battery or cell, then placed in a strong rigid outer packaging.

- For stand alone batteries, the State of Charge (SoC) should not exceed 30% of rated capacity.
- UN Specification Packaging is not required.
- Maximum 10 kg net weight per package.

**Documentation**

- Shipper’s Declaration for Dangerous Goods (with IB noted in the authorization column of the declaration)
- The following statements are required on the waybill: “Dangerous Goods as per attached DGD” or “Dangerous Goods as per attached Shipper’s Declaration” and “CAO” or “Cargo Aircraft Only”.

**Required labeling**

- **Cells > 2.7 Wh and ≤ 20 Wh ≥ 8 cells**

- **UN 3480, Lithium Ion Batteries — PI965 Section IB**

  - Required labeling — valid now through December 31, 2018
  - Required labeling — valid now and beyond January 1, 2019
Batteries > 2.7 Wh, but ≤ 100Wh

≤ 2 batteries per package

> 2 batteries per package
Shipping instructions: Batteries & cells only

LITHIUM ION

Packaging

- Each battery and cell must be protected against a short circuit and placed in an inner packaging that completely encloses the battery and cell, then placed in a strong rigid outer packaging.
- For stand alone batteries, the State of Charge (SoC) should not exceed 30% of rated capacity.
- UN Specification Packaging is not required.
- Maximum 2 batteries per package.

Documentation

- The following statements are required on the waybill: “Lithium Ion Batteries in compliance with Section II of PI965” and “CAO” or “Cargo Aircraft Only.”

Required labeling

- The following labels are required:
  - UN 3480, Lithium Ion Batteries — PI965 Section II
  - Limit one package per consignment. If more than 1 package, you must send the package under PI965 IB.
  - Confirm with your carrier that they accept section II batteries.

Batteries > 2.7 Wh, but ≤ 100 Wh

< 2 batteries per package
Batteries > 2.7 Wh, but < 100 Wh
> 2 batteries per package

Packaging
- Each battery and cell must be protected against a short circuit and placed in an inner packaging that completely encloses the battery or cell, then placed in a strong rigid outer packaging
- For stand alone batteries, the State of Charge (SoC) should not exceed 30% of rated capacity
- UN Specification Packaging is not required
- Maximum 10 kg net weight per package

Documentation
- Shipper’s Declaration for Dangerous Goods (with IB noted in the authorization column of the declaration)
- The following statements are required on the waybill: “Dangerous Goods as per attached DGD” or “Dangerous Goods as per attached Shipper’s Declaration” and “CAO” or “Cargo Aircraft Only”

Required labeling
- UN 3480, Lithium Ion Batteries — PI965 Section IB
- Required labeling — valid now through December 31, 2018
- Required labeling — valid now and beyond January 1, 2019

For more information, call ___________________
**Shipping instructions: Batteries & cells only**

**Packaging**
- Each battery and cell must be protected against a short circuit and placed in an inner packaging that completely encloses the battery or cell, then placed in a strong outer packaging.
- Maximum net quantity per package is 35 kg for Cargo Aircraft only (CAO).
- For stand alone batteries, the State of Charge (SoC) should not exceed 30% of rated capacity.
- UN Specification Packaging required.
- Fully Regulated.

**Documentation**
- Shipper’s Declaration for Dangerous Goods.
- Waybill should have the statement “Dangerous Goods as per attached DGD,” and if applicable, “CAO” or “Cargo Aircraft Only.”

**Required labeling**

**Cells > 20 Wh and batteries > 100 Wh**

- **UN 3480, Lithium Ion Batteries — PI965 Section IA**

Required labeling — valid now through December 31, 2018

Required labeling — valid now and beyond January 1, 2019

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FedEx Trade Networks
Select type and weight (Click on your choice)

Packed with equipment
(separate in the same package)

Cells ≤ 20 Wh or batteries ≤ 100 Wh

Cells > 20 Wh or batteries > 100 Wh
Each battery and cell must be protected against a short circuit and placed in an inner packaging that completely encloses the battery and cell, then placed in a strong rigid outer packaging. The equipment must also be secured against any movement within the outer packaging and must be equipped with an effective means of preventing accidental activation. Maximum number of batteries or cells per package: Those necessary to power the equipment, plus 2 spares. Maximum net quantity of lithium batteries or cells per package = 5 kg per package.

The following statement is required on the waybill: “Lithium Ion Batteries in compliance with Section II of PI966.”

Cells ≤ 20 Wh or batteries ≤ 100 Wh

For more information, call ___________

UN 3481, Lithium Ion Batteries Packed with Equipment — PI966 Section II

Required labeling — valid now through December 31, 2018

UN 3481, valid now and beyond January 1, 2019
LITHIUM ION
Shipping instructions: Packed with equipment

Packaging
- Each battery or cell must be protected against a short circuit and placed in an inner packaging that completely encloses the battery or cell, then placed in a strong rigid outer packaging
- UN Specification Packaging is required
- Maximum number of batteries includes those necessary to power the equipment plus 2 spares
- Maximum 5 kg net qty of lithium-ion cell or batteries per package (exclusive of equipment) for “Passenger and Cargo Aircraft” (PAX) and 35 kg for Cargo Aircraft Only Shipments (CAO)

Documentation
- Shipper’s Declaration for Dangerous Goods
- Waybill should have the statement “Dangerous Goods as per attached DGD,” and if applicable, “CAO” or “Cargo Aircraft Only”

Required labeling
- UN 3481, Lithium Ion Batteries Packed with Equipment — PI966 Section I
- Required labeling — valid now and beyond January 1, 2019
- Required labeling — valid now through December 31, 2018

Cells > 20 Wh or batteries > 100 Wh
Lithium Batteries & Cells Shipping Guide by Air

**Select type and weight** (Click on your choice)

- **Contained in equipment**
- **Cells ≤ 20 Wh or batteries ≤ 100 Wh**
- **Cells > 20 Wh or batteries > 100 Wh**
Select quantity (Click on your choice)

- Cells ≤ 20 Wh or batteries ≤ 100 Wh
- ≤ 4 Cells or ≤ 2 batteries
- > 4 Cells or > 2 batteries
Lithium Batteries & Cells Shipping Guide by Air

Shipping instructions: Contained in equipment

Packaging
- The equipment must be packed in strong rigid outer packaging constructed of suitable material of adequate strength and design in relation to the packaging’s capacity and its intended use unless the cell or battery is afforded equivalent protection by the equipment in which it is contained
- Maximum net quantity of lithium ion batteries or cells: 5kg (exclusive of equipment)

Documentation
- Waybill

Required labeling
- Exempt from any marking and labeling requirements

UN 3481, Lithium Ion Batteries Contained in Equipment — PI967 Section II
Shipping instructions: Contained in equipment

Packaging
- Each battery or cell must be protected against a short circuit and placed in an inner packaging that completely encloses the battery or cell, then placed in a strong rigid outer packaging
- UN Specification Packaging is not required
- Devices with batteries must be placed in an outer packaging of suitable construction and strength so as to provide adequate protection, unless the battery is afforded equivalent protection by the equipment in which it is contained
- Maximum 5 kg net qty of lithium-ion cell or batteries per package (exclusive of equipment)

Documentation
- The following statement is required on the waybill: “Lithium Ion Batteries in compliance with Section II of PI967”

Required labeling
- Required labeling — valid now through December 31, 2018
- Required labeling — valid now and beyond January 1, 2019

UN 3481, Lithium Ion Batteries Contained in Equipment — PI967 Section II
Lithium Batteries & Cells Shipping Guide by Air

LITHIUM ION

Shipping instructions: Batteries & cells only

Packaging
• Each battery or cell must be protected against a short circuit and placed in an inner packaging that completely encloses the battery or cell, then placed in a strong rigid outer packaging
• UN Specification Packaging is required
• Maximum 5 kg net qty of lithium-ion cell or batteries per package (exclusive of equipment) for "Passenger and Cargo Aircraft" (PAX) and 35 kg for Cargo Aircraft Only Shipments (CAO)

Documentation
• Shipper’s Declaration for Dangerous Goods
• Waybill should have the statement "Dangerous Goods as per attached DGD," and if applicable, "CAO" or "Cargo Aircraft Only"

Required labeling

Also, when applicable:

Required labeling — valid now through December 31, 2018

UN 3481, Lithium Ion Batteries Contained in Equipment — PI967 Section I

Also, when applicable:

Required labeling — valid now and beyond January 1, 2019
Choose battery type (Click on your choice)

- Ship by ocean
- Lithium ion batteries or cells
- Lithium metal batteries or cells
Choose package contents (Click on your choice)

- Batteries and cells only
- Packed with equipment (separate in the same package)
- Contained in equipment
Select type and weight (Click on your choice)

Batteries and cells only

Cells ≤ 20 Wh or batteries ≤ 100 Wh

Cells > 20 Wh and batteries > 100 Wh
Shipping instructions: Batteries & cells only

Packaging
- Each battery and cell must be protected against a short circuit and placed in an inner packaging that completely encloses the battery and cell, then placed in a strong rigid outer packaging.
- Maximum 30 kgs gross per package.

Documentation
- Waybill

Required labeling

Cells ≤ 20 Wh and batteries ≤ 100 Wh

UN 3480, Lithium Ion Batteries Complying with Special Provision 188

Required labeling — valid now through December 31, 2018

OR

Required labeling — valid now and beyond January 1, 2019
**LITHIUM ION**

**Shipping instructions: Batteries & cells only**

- **Packaging**
  - Each battery and cell must be protected against a short circuit and placed in an inner packaging that completely encloses the battery and cell, then placed in a strong rigid outer packaging.
  - Maximum gross quantity per package 30 kg
  - UN Specification Packaging required
  - Fully Regulated

- **Documentation**
  - Shipper’s Declaration
  - Waybill

- **Required labeling**
  - Valid now through December 31, 2018
  - Valid now and beyond January 1, 2019

UN 3480, Lithium Ion Batteries — Fully Regulated
Lithium Batteries & Cells Shipping Guide by Ocean

Packed with equipment
(separate in the same package)

Cells ≤ 20 Wh or batteries ≤ 100 Wh

Cells > 20 Wh or batteries > 100 Wh
**Shipping instructions:** Packed with equipment

**Packaging:**
- Each battery and cell must be protected against a short circuit and placed in an inner packaging that completely encloses the battery and cell, then placed in a strong rigid outer packaging.
- The equipment must also be secured against any movement within the outer packaging and must be equipped with an effective means of preventing accidental activation.

**Documentation:**
- Waybill

**Required labeling**
- For cells < 20 Wh or batteries < 100 Wh:
- **UN 3481, Lithium Ion Batteries Packed with Equipment or Contained in Equipment Complying with SP 188**

**IF DAMAGED**
- Do not load or transport
- Package if damaged

**CAUTION!**
- Minimum dimension 120mm
- Minimum dimension 110mm

For more information, call __________

**UN 3481**, valid now through December 31, 2018

**Required labeling — valid now and beyond January 1, 2019**
Each battery and cell must be protected against a short circuit and placed in an inner packaging that completely encloses the battery and cell, then placed in a strong rigid outer packaging. UN Specification Packaging is required.

- Shipper’s Declaration
- Waybill

Packaging

Required labeling — valid now through December 31, 2018

UN 3481, Lithium Ion Batteries Packed with Equipment or Contained in Equipment — Fully Regulated

Required labeling — valid now and beyond January 1, 2019
LITHIUM ION

Select type and weight (Click on your choice)

- Contained in equipment
- Cells $\leq 20$ Wh or batteries $\leq 100$ Wh
- Cells $> 20$ Wh or batteries $> 100$ Wh
Select quantity (Click on your choice)

Cells ≤ 20 Wh or batteries ≤ 100 Wh

≤ 4 Cells or ≤ 2 batteries

> 4 Cells or > 2 batteries
Shipping instructions: Contained in equipment

Packaging
- The equipment must be packed in strong rigid outer packaging constructed of suitable material of adequate strength and design in relation to the packaging’s capacity and its intended use unless the cell or battery is afforded equivalent protection by the equipment in which it is contained
- No more than 4 cells or 2 batteries contained in equipment

Documentation
- Waybill

Required labeling
- Exempt from any marking and labeling requirements

LITHIUM ION
UN 3481, Lithium Ion Batteries Packed with Equipment or Contained in Equipment Complying with SP 188

< 4 Cells or < 2 batteries
Shipping instructions: Contained in equipment

Packaging
- Each battery or cell must be protected against a short circuit and placed in an inner packaging that completely encloses the battery or cell, then placed in a strong rigid outer packaging
- The equipment must also be secured against any movement within the outer packaging and must be equipped with an effective means of preventing accidental activation

Documentation
- Waybill

Required labeling

UN 3481, Lithium Ion Batteries Packed with Equipment or Contained in Equipment Complying with SP 188

> 4 Cells or > 2 batteries

Valid now through December 31, 2018

Valid now and beyond January 1, 2019
Shipping instructions: Batteries & cells only

**Packaging**
- Each battery or cell must be protected against a short circuit and placed in an inner packaging that completely encloses the battery or cell, then placed in a strong rigid outer packaging
- UN Specification Packaging is required

**Documentation**
- Shipper’s Declaration
- Waybill

**Required labeling**
- **UN 3481, Lithium Ion Batteries Packed with Equipment or Contained in Equipment — Fully Regulated**

**Cells > 20 Wh and batteries > 100 Wh**

- Required labeling — valid now through December 31, 2018
- Required labeling — valid now and beyond January 1, 2019
Choose package contents

- Batteries and cells only
- Packed with equipment (separate in the same package)
- Contained in equipment
LITHIUM METAL

Select type and weight (Click on your choice)

- Batteries and cells only
- Cells with lithium content ≤ 1g or batteries ≤ 2g
- Cells with lithium content > 1g and batteries > 2g
Lithium Batteries & Cells Shipping Guide by Ocean

**Cells with lithium content < 1g or batteries < 2g**

**Shipping instructions:** Batteries & cells only

**Packaging**
- Each battery and cell must be protected against a short circuit and placed in an inner packaging that completely encloses the battery and cell, then placed in a strong rigid outer packaging.
- UN specification is not required.
- Maximum 30 kgs gross per package.

**Documentation**
- Waybill.

**Required labeling**

**CAUTION!**
- **Minimum dimension 120mm**
- **Minimum dimension 110mm**

For more information, call__________

UN 3090, Lithium Metal Batteries Complying with Special Provision 188

Required labeling — valid now through December 31, 2018

OR

UN 3090

Required labeling — valid now and beyond January 1, 2019
Lithium Batteries & Cells Shipping Guide by Ocean

LITHIUM METAL

Shipping instructions: Batteries & cells only

Packaging
• Each battery and cell must be protected against a short circuit and placed in an inner packaging that completely encloses the battery or cell, then placed in a strong rigid outer packaging
• UN specification is not required
• Fully Regulated

Documentation
• Shipper’s declaration
• Waybill

Required labeling

UN 3090, Lithium Metal Batteries — Fully Regulated

Cells with lithium content > 1g and batteries > 2g
Packed with equipment
(separate in the same package)

Cells with lithium content ≤ 1g or batteries ≤ 2g

Cells with lithium content > 1g and batteries > 2g
Lithium Batteries & Cells Shipping Guide by Ocean

Each battery and cell must be protected against a short circuit and placed in an inner packaging that completely encloses the battery and cell, then placed in a strong rigid outer packaging.

The equipment must also be secured against any movement within the outer packaging and must be equipped with an effective means of preventing accidental activation.

Documentation

- Waybill

Required labeling

- Valid now through December 31, 2018
- Valid now and beyond January 1, 2019

UN 3091, Lithium Metal Batteries Packed with Equipment or Contained in Equipment Complying with SP 188
Lithium Batteries & Cells Shipping Guide by Ocean

**Shipping instructions:** Packed with equipment

- Each battery and cell must be protected against a short circuit and placed in an inner packaging that completely encloses the battery and cell, then placed in a strong rigid outer packaging
- UN Specification Packaging is required

**Documentation**
- Shipper’s Declaration
- Waybill

**Required labeling**

*UN 3091, Lithium Metal Batteries Packed with Equipment or Contained in Equipment — Fully Regulated*

- Required labeling — valid now through December 31, 2018
- Required labeling — valid now and beyond January 1, 2019
Select type and weight (Click on your choice)

- Contained in equipment
- Cells with lithium content ≤ 1g or batteries ≤ 2g
- Cells with lithium content > 1g and batteries > 2g
LITHIUM METAL

Select quantity (Click on your choice)

Cells with lithium content ≤ 1g or batteries ≤ 2g

< 4 Cells or ≤ 2 batteries

> 4 Cells or > 2 batteries
Shipping instructions: Contained in equipment

Packaging
- The equipment must be packed in strong rigid outer packaging constructed of suitable material of adequate strength and design in relation to the packaging’s capacity and its intended use unless the cell or battery is afforded equivalent protection by the equipment in which it is contained
- No more than 4 cells or 2 batteries contained in equipment

Documentation
- Waybill

Required labeling
- Exempt from any marking and labeling requirements

UN 3091, Lithium Metal Batteries Contained in Equipment Complying with Special Provision 188
Shipping instructions: Contained in equipment

Packaging
- Each battery or cell must be protected against a short circuit and placed in an inner packaging that completely encloses the battery or cell, then placed in a strong rigid outer packaging.
- The equipment must also be secured against any movement within the outer packaging and must be equipped with an effective means of preventing accidental activation.

Documentation
- Waybill

Required labeling

UN 3091, Lithium Metal Batteries Packed with Equipment or Contained in Equipment Complying with SP 188

For more information, call ____________
Cells with lithium content > 1g and batteries > 2g

**Shipping instructions:** Batteries & cells only

**Packaging**
- Each battery or cell must be protected against a short circuit and placed in an inner packaging that completely encloses the battery or cell, then placed in a strong rigid outer packaging
- UN Specification Packaging is required

**Documentation**
- Shipper’s Declaration
- Waybill

**Required labeling**
- Required labeling — valid now through December 31, 2018
- Required labeling — valid now and beyond January 1, 2019

UN 3091, Lithium Metal Batteries Packed with Equipment or Contained in Equipment — Fully Regulated