

# Lithium battery energy type and power type label

Do I need a label for lithium ion batteries?

If you're shipping lithium ion batteries contained in or packed with equipment, use a battery label with UN3481. Lithium metal batteries will use labels with one of the following UN numbers: If you're shipping lithium metal batteries as a standalone (no other items in the package), use a battery label with UN3090.

Why do lithium batteries have different labels?

Lithium metal batteries and lithium metal batteries will carry different lithium battery labels on them. These labels will help to differentiate the types of lithium batteries as they're being transported. What Are the Numbers Found on Lithium Batteries?

Do lithium ion batteries need a UN number?

Lithium ion batteries will use labels with one of the following UN numbers: If you're shipping lithium ion batteries as a standalone, use a battery label with UN3480. Standalone means the package only contains batteries and nothing else. If you're shipping lithium ion batteries contained in or packed with equipment, use a battery label with UN3481.

What are the different types of lithium batteries?

Lithium batteries come in various types, each designed for specific applications and characterized by different chemistries, voltages, and energy densities. However, lithium batteries can still broadly be classified into two main categories: lithium metal batteries and lithium-ion batteries. Here's an overview of each:

How do you label a lithium ion battery?

**Symbols:** The label must include a symbol of a black battery group with one battery showing a flame. **UN Number:** This indicates the type of battery and its associated risks. For example, "UN3480" for lithium-ion batteries shipped alone, and "UN3481" for lithium-ion batteries contained in or packed with equipment.

What is a lithium battery label?

It is a standardized label that indicates the package contains hazardous materials. This label is mandatory for all lithium battery shipments to communicate the potential risks associated with the contents. It helps ensure that handlers and transporters are aware of the need for special precautions.

Lithium battery shipping labels UN3080, UN3081, UN3490, and UN3491 are used to identify and properly handle packages containing lithium batteries during transport. Here's an explanation of each label and their main ...

For lithium ion batteries, refer to Packing Instructions 965. For lithium metal batteries, refer to Packing Instructions 968. After locating the correct PI, you'll need to figure out which section applies to your

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shipment. Different ...

There are two standards UN 3090 (Lithium metal or lithium alloy battery or cell) in compliance with IATA, UN 3081(Lithium metal or alloy batteries contained or packed in equipment), UN 3480 ...

LITHIUM-ION BATTERIES UN 3480 Hazard label No. 9A (10 cm x 10 cm) ADR: UN 3481 IMDG Code: LITHIUM-ION BATTERIES PACKED WITH EQUIPMENT UN 3481 or LITHIUM-ION ...

This comprehensive article examines and compares various types of batteries used for energy storage, such as lithium-ion batteries, lead-acid batteries, flow batteries, and ...

Battery Type Gravimetric Energy Density (Wh/kg) Volumetric Energy Density (Wh/L) Lead-Acid: 30-50: 36-50: NiCd: 45-80: 50-150: NiMH: 60-120: 140-300: Li-ion Cobalt: ...

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There are two standards UN 3090 (Lithium metal or lithium alloy battery or cell) in compliance with IATA, UN 3081(Lithium metal or alloy batteries contained or packed in equipment), UN 3480 (Lithium-ion batteries - including lithium ion ...

Lithium batteries have revolutionized energy storage, powering everything from smartphones to electric vehicles. Understanding the six main types of lithium batteries is ...

Learn to read lithium battery labels. Understand key details like voltage, capacity, and safety warnings for safe and efficient battery use.

The UN3090 Lithium Battery Handling Mark is a distinct label required by international regulations for transporting lithium batteries. Known for their efficiency and high energy density, lithium batteries power a wide array of ...

Battery handling labels are going to need to be put on any packages containing lithium batteries that will be included in air shipments. They'll need to be at least 4 inches by 4 ...

Alkaline (ALK): Alkaline batteries, commonly denoted by "ALK," are the most prevalent type of household battery. They are typically used in low-drain devices such as ...

This makes LFP batteries the most common type of lithium battery for replacing lead-acid deep-cycle batteries. Benefits: There are quite a few benefits to lithium iron phosphate batteries that ...

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Battery labels play a critical role in providing necessary information and ensuring safe usage. Key information typically found on battery labels includes:.. Battery Type: Specifies the type of ...

Lithium battery shipping labels UN3080, UN3081, UN3490, and UN3491 are used to identify and properly handle packages containing lithium batteries during transport. ...

A battery handling label won't be the only type of label that you'll need to place on a package containing lithium batteries. You'll also need to put a class 9 dangerous goods label on it as well. Just like a battery handling label, ...

Over the last 25 years many technological innovations have been powered by lithium ion batteries. 21 Jun 2018 ... The drive is to produce more energy from a battery with less battery ...

The UN3090 Lithium Battery Handling Mark is a distinct label required by international regulations for transporting lithium batteries. Known for their efficiency and high energy density, lithium ...

The best type of lithium battery depends on the specific application; for example, lithium-ion (Li-ion) batteries are common for everyday electronics, while lithium iron phosphate ...

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