

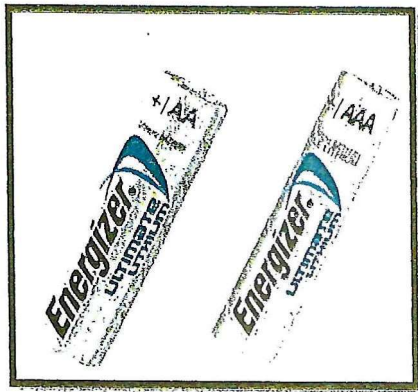
LITHIUM BATTERY SIZE REQUIREMENTS

The Department of Transportation has authorized the shipment of Lithium Metal (Non-Rechargeable) and Lithium Ion (Rechargeable) batteries using The Big Green Box pursuant to DOT Special Permit 16474. The complete Special Permit can be found at <http://www.biggreenbox.com/SP-16474>

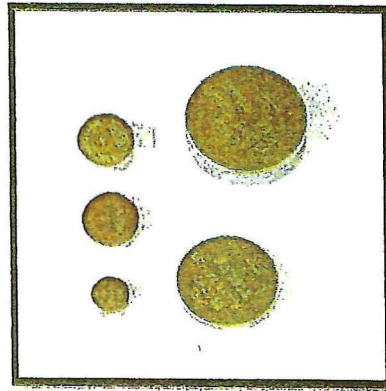
Special Permit 16474 limits Lithium Metal and Lithium Ion batteries transported to the following sizes:

- Lithium Metal (Non-rechargeable) – 25 grams of lithium content or less per battery
- Lithium Ion (Rechargeable) – A rated capacity of 300 Wh (Watt-hours) or less per battery

Most consumer-style lithium metal and li-ion batteries (see below) fall within these size limitations.



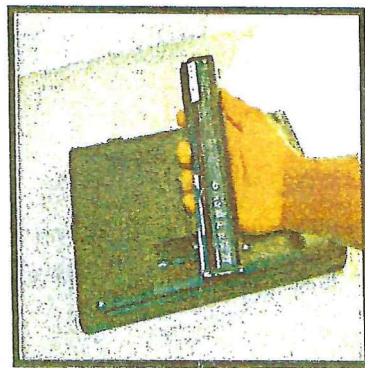
Lithium Metal AA & AAA Cells
(Acceptable)



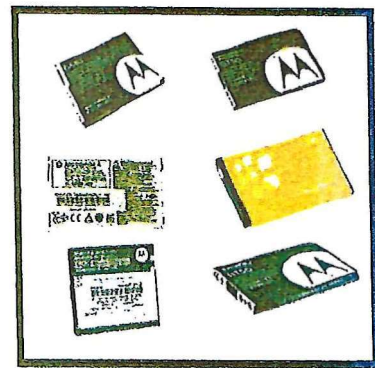
Lithium Metal Button Cells
(Acceptable)



Li-Ion Power Tool
(Acceptable)



Li-Ion Laptop
(Acceptable)



Li-Ion Cell Phone
(Acceptable)

For batteries larger than the common consumer types shown above, customer should verify whether batteries can be shipped pursuant to Special Permit 16474.

SEE NEXT PAGE FOR INSTRUCTIONS TO DETERMINE BATTERY SIZE
OR CONTACT THE BIG GREEN BOX FOR ASSISTANCE AT 877-461-2345

DETERMINE LITHIUM METAL BATTERY SIZE

The calculation used to determine lithium content is:

Ah per battery x 0.3 grams

- NOTE: Many batteries are not rated in Ampere hours (Ah), but instead in milliamperes hours (mAh). To determine the Ah, divide the mAh by 1,000.

Example Calculation:

The battery you wish to ship is rated at 2,500 mAh:

- Divide 2,500 mAh by 1,000 to get the rating in Ah:
 $2,500 \text{ mAh} \div 1,000 = 2.5 \text{ Ah}$
- Multiply the Ah by 0.3 gm to determine the amount of Lithium:
 $2.5 \text{ Ah} \times 0.3 \text{ gm} = 0.75 \text{ grams of lithium in each cell}$
- Multiply the amount of lithium in each cell by the number of cells in each battery:
 $0.75 \text{ grams/cell} \times 6 \text{ cells} = 4.5 \text{ grams of lithium in the battery}$

Example Conclusion: 4.5 g is below the 25 g limit and can be shipped in The Big Green Box

DETERMINE LITHIUM ION BATTERY SIZE

The calculation used to determine rated capacity is:

Volts x ampere hour (Ah) = watt hours

- NOTE: Many batteries are not rated in Ampere hours (Ah), but instead in milliamperes hours (mAh). To determine the Ah, divide the mAh by 1,000.

Example Calculation

The battery pack you wish to ship is rated at 18 volts and 4,000 mAh:

- Divide 4,000 mAh by 1,000 to get the rating in Ah:
 $4,000 \text{ mAh} \div 1000 = 4.0 \text{ Ah}$
- To determine the watt hours in this battery, multiply 18 volts by 4.0 Ah:
 $18 \text{ V} \times 4.0 \text{ Ah} = 72 \text{ Wh}$

Example Conclusion: 72 Wh is below the 300 Wh limit and may be shipped in the Big Green Box.