

Getting Started Guide

Thank you for purchasing The Big Green Box battery and electronics recycling container. With your help, we are keeping used batteries out of landfills and reclaiming precious commodities for reuse in the products of tomorrow.

We have provided these instructions for your benefit; and to ensure the safe storage and transportation of used batteries inside The Big Green Box. Please read and follow all instructions carefully. If you have any questions, we are always eager to help, just call 1-877-461-2345.

Accumulation Starting Date

Find the section on the top of The Big Green Box container lid marked "Accumulation Starting Date" and fill in with a permanent marker the date when the first battery is placed in the container. EPA regulations require that The Big Green Box is shipped within 1 year of the Accumulation Starting Date.

Setup The Big Green Box

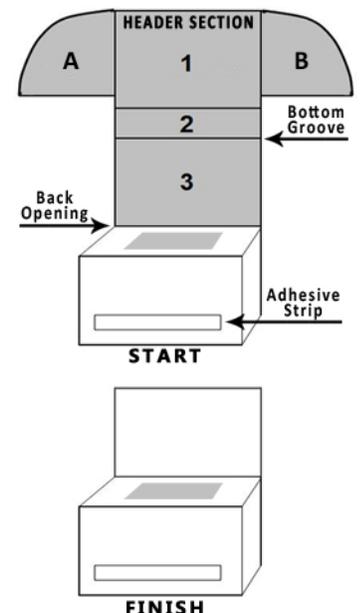
Take the following steps to setup the box as an attractive collection display.

1. Fold flaps A and B inward towards center of section 1.
2. Fold header section at the Bottom Groove of section 2.
3. Tuck top edge of section 1 into Back Opening to form header display.
4. Remove bag holder from inside box.
5. Insert bag holder into either side of box and insert bags for storage.

Close and Seal The Big Green Box

When the box is filled and ready to be shipped, the following steps should be taken to seal the box before shipment back to our recycling facility.

1. Remove top edge of section 1 from Back Opening and unfold flaps A and B. (Box should now resemble the Start diagram to the right)
2. Locate adhesive strip on the face of the box and remove protective strip.
3. Slide flaps A and B into the left and right slots located on the face of the box.
4. Press box top securely against the adhesive to ensure the box will remain sealed.



Maximum Box Weight

The Big Green Box is a UN PGII certified container that has been tested to ship up to 43lbs of materials. Boxes should never weigh more than 43 lbs. when full, otherwise this certification will be invalidated. The Big Green Box reserves the right to charge a penalty fee for those shipping boxes weighing more than this maximum weight.

Return The Big Green Box

The Big Green Box includes a prepaid FedEx shipping label back to our nearest recycling facility. You can either schedule FedEx to pick up your box, or for those who receive frequent FedEx deliveries, simply give the box to your FedEx delivery driver. You may also drop off the box at your local FedEx Office location.

To schedule a pickup call 1-800-Go-FedEx or go to www.fedex.com/grd/rpp/

Getting Started Guide (continued)

Prohibited Batteries

The following batteries are prohibited from being shipped in The Big Green Box:

1. Batteries containing free-flowing electrolyte (e.g. automotive/motorcycle batteries).
2. Low production run and prototype batteries;
3. Damaged, defective or recalled batteries.

Large Lithium Batteries Prohibited

The following lithium batteries are prohibited from being shipped in The Big Green Box:

1. Lithium Metal cells or batteries (non-rechargeable) containing more than 5g per individual cell or 25g per battery pack of lithium content. ***If unknown, see example below on how to Calculate Lithium Content.***
2. Lithium Ion cells or batteries (rechargeable) with a rated capacity over 60Wh per individual cell or 300Wh per battery pack. ***If unknown, see example below on how to Calculate Rated Capacity.***

NOTE – FOR YOUR CONVENIENCE: Common consumer batteries such as those used to power laptops, cell phones, tablets and handheld power tools are typically within the maximum numbers listed above. Therefore, the formulas shown below should only be necessary for those shipping industrial-grade, military-grade or larger-format lithium batteries.

Example: Calculate Lithium Content (grams)

The calculation used to determine lithium content is:

$$\text{Ah per cell} \times 0.3 \text{ grams} \times \text{number of cells}$$

- Many batteries are not rated in Ampere hours (Ah), they are rated in milliamperes hours (mAh). Milliampere hours are one thousandth of an ampere hour.
- To determine the Ah, divide the mAh by 1,000.

Example: The battery you wish to ship is rated at 2,500 mAh per cell and contains 6 cells:

- 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 in each cell:

$$2.5 \times 0.3 \text{ gm} = 0.75 \text{ grams of lithium in each cell}$$

- Multiply the amount of lithium in each cell by the number of cells in each battery:

$$0.75 \text{ grams/cell} \times 6 = 4.5 \text{ grams of lithium in the battery}$$

Conclusion: 4.5 g is below the maximum allowable lithium content of 25 g for battery packs; therefore the battery may be shipped in the Big Green Box.

Only use when shipping non-rechargeable
Lithium Metal Cells or Batteries

Example: Calculate Rated Capacity (watt hour)

The calculation used to determine rated capacity is:

$$\text{Volts} \times \text{ampere hour (Ah)} = \text{watt hours}$$

- Many batteries are not rated in Ampere hours (Ah), they are rated in milliamperes hours (mAh). Milliampere hours are one thousandth of an ampere hour.
- To determine the Ah, divide the mAh by 1,000.

Example: The battery pack you wish to ship is rated at 11.1 volts and 4,400 mAh per cell:

- Divide 4,400 mAh by 1,000 to get the rating in Ah:

$$4,400 \text{ mAh} \div 1000 = 4.4 \text{ Ah}$$

- To determine the watt hours in this battery, multiply 11.1 volts by 4.4 ampere hours:

$$11.1 \text{ V} \times 4.4 \text{ Ah} = 48.8 \text{ Wh}$$

Conclusion: 48.8 Wh is below the maximum allowable rated capacity of 300 Wh for battery packs; therefore the battery may be shipped in the Big Green Box.

Only use when shipping rechargeable
Lithium Ion Cells or Batteries

Detailed Battery Packaging Instructions

Federal Hazardous Material Regulations¹, 49 CFR parts 172-173 forbids the transportation of electrical devices, such as batteries and battery-powered devices, which are likely to create sparks or generate a dangerous evolution of heat, unless packaged in a manner which precludes such an occurrence. Persons or companies that violate these requirements may be subject to fine or prosecution.

To comply with the regulations stated above, the following should be adhered to at all times

Battery Insulation

- Batteries that require insulation (see list to the right) must be placed in non-conductive inner packagings (i.e. plastic bags) that completely enclose the batteries, and separate the batteries from contact with equipment, other devices, or conductive materials (e.g., metal) in the container.
- Batteries that require insulation should be placed individually into plastic bags. Nevertheless, multiple batteries may be placed into a single plastic bag if exposed terminals are first covered with clear, non-conductive tape.
- For sake of clarity, insulation is not required for Alkaline, NiCad, NiMH or any other dry cell battery not listed above when 9 volts and under. The voltage should be noted on the battery wrapper or case.

Batteries That Require Insulation

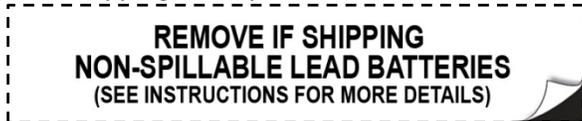
Lithium Metal (non-rechargeable)
Lithium Ion (rechargeable)
Non-Spillable Lead Acid
Any Other Battery Over 9 Volts

AA, AAA, C, & D alkaline batteries
will always be under 9 volts

Battery Shipping Labels

Federal regulations mandate that packages used to transport non-spillable Lead and Lithium batteries include specific shipping labels when in transit. For your convenience, these labels have been included on the top of the container and can be revealed by peeling top portion of the label away.

When Shipping Non-Spillable Lead Acid Batteries:



PEEL TO
REVEAL



When Shipping Lithium Metal and/or Lithium Ion Batteries:



PEEL TO
REVEAL



Lithium Battery Document

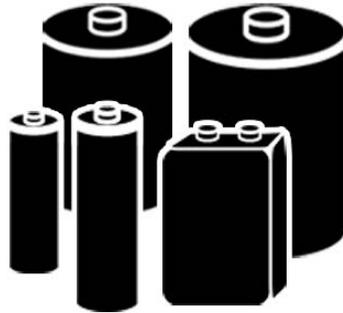
Federal regulations mandate that packages used to transport Lithium batteries be accompanied by a document indicating the package contains lithium batteries, which should be handled with care due to the existence of a flammable hazard, and which provides special procedures in the event the package is damaged.

For your convenience, this document has been provided on the reverse side of this page. The document must be placed on the inside of the Big Green Box container before being closed for return shipment.

¹ The Detailed Battery Packaging Instructions above summarize the relevant regulations set forth in Title 49 of the U.S. Code of Federal Regulations: §172.101; §172.102 special provision 130; §173.21(c); §173.159a; and §173.185.

PLACE THIS DOCUMENT INSIDE BIG GREEN BOX
WHEN SHIPPING LITHIUM BATTERIES

CAUTION!



IF DAMAGED

LITHIUM METAL/LITHIUM ION BATTERIES

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

For more information, call 1-877-461-2345;
or in cases of emergency only, call 1-800-424-9300

PLACE THIS DOCUMENT INSIDE BIG GREEN BOX
WHEN SHIPPING LITHIUM BATTERIES