Correctly Packaged Rack Batteries

1. Prepare Shipment
- Heavy-duty 3-rung pallet
- Wood slats added as “bumpers” to keep cells from moving on pallet
- Cardboard insulation below and on top
- Banded to pallet with high-strength banding
- It is not possible to have too much shrink wrap or banding to secure the material to the pallets.
- Proper labeling

2. Package Pallet
- Insulate bottom of pallet with cardboard or plywood below and on top of batteries
- Shrink wrap to pallet. Using layers of shrink wrap down to bottom edges of the pallet will help avoid shifting during shipment
- A general rule would be once you think you have it wrapped – add six more revolutions of wrap.

3. Label & Ship
- Use high-strength banding to secure to pallet. Shrink wrap to pallet.

Incorrectly Packaged Rack Batteries

- Weak pallet
- Insufficient cardboard (less than three layers) on top or bottom of cells
- Must be insulated with cardboard OR a non-conductive material, such as plywood
- Exposed terminals + Ripped cardboard + Steel Banding = FIRE HAZARD
- Insufficient banding OR not banded to the pallet
- Not protected from sliding off pallet with wooden “bumpers”
- Insufficient amount of shrink wrap OR not shrink wrapped to pallet
- Incorrectly labeled
These instructions must be followed exactly.

These instructions are for rack lead acid or absolyte batteries only. If you are unsure of the type of batteries that you have, please contact us for assistance.

Getting Started

Under the Universal Waste Law, you must contact Battery Solutions before sending a shipment of universal waste batteries to us so we may assign a recycling authorization tracking number to the shipment.

When calling please inform us:
- Of your specific pick-up hours.
- If you do or do not have a loading dock or lift truck to load the batteries for shipment.
- If you do not have an asphalt or concrete loading area.

If batteries are damaged or leaking, or if you are unsure if batteries are damaged, please call Battery Solutions for instructions.

Preparing Batteries for Shipment

Any vents or spark arresters on the battery must be capped or plugged to prevent leaking during shipping or storage.

Pallet Limitations

- Only use heavy-duty 3-rung pallets, insufficient pallets may not be able to support the weight of these batteries.
- Pallet Size should not exceed 40” x 48”.
- Pallet weight should not exceed 2800 lbs.
- Pallet heights should not exceed 48” tall.
- The whole pallet with the layers should never be taller than it is wide.

Shipping

Have the driver of the trucking company sign the bill of lading that was provided to you. Keep a signed copy for your records.

Packaging Pallet to Ship

- The top surface of the pallet itself should have multiple 2” x 2” wooden strips nailed to the pallet surrounding the base of the batteries to prevent the batteries or drums from sliding off the pallet during transit.
- All types of cardboard are acceptable.
  - Do not use styrofoam packaging material, i.e. peanuts, foam padding, flow-foam products, etc. in the battery boxes or in the pallets.
- All batteries must be packaged on a pallet in individual boxes or with an ample amount of cardboard to separate the layers of batteries and protect all the terminals.
- When packaging the batteries on the pallet, if the batteries are not in boxes, place one layer of batteries upright, then place an ample layer of cardboard on top of that layer before you put another layer of batteries on the pallet.
- Place more cardboard over the top layer to ensure that foreign materials cannot cause a short across the batteries.
- When packaging batteries over 16” tall, only put one layer high on each pallet.
- All batteries should be carefully banded to a strong wooden pallet with high-strength vinyl banding ensuring the banding does NOT come in contact with battery terminals.
- When shipping wet cell batteries with acid or alkali electrolyte, use a corrosive Class 8 placard on opposite sides of each pallet. Battery Solutions can supply you with these labels, if needed.