

# MPS Series - Product Insert

## Safety Regulations

- Keep all original packaging. International law dictates that Li-ion batteries are shipped under UN 3480, Class 9 rules for hazardous goods/dangerous materials. Do not discard the packaging, both the cardboard box and interior inserts, for the Battery. This packaging is specifically designed for the safe shipment of the battery for both ground and air shipments. Use this packaging if the battery must be transported to a new location.
- Abusive, unapproved, or negligent operation of the battery (e.g. overcharge, crush, puncture, excessive heat, or moisture) may produce smoke or a fire.
- In the case of smoke, ventilate the area.
- Extinguish any flames with copious amounts of water, use a carbon dioxide, or dry-powder fire extinguisher. This type of battery may cause a fire that spreads quickly, aggressively, can explode, or reignite. Water alone and/or general fire extinguisher may be ineffective to abate a battery fire. In the case of fire, leave the area immediately and call 9-1-1.
- Charge and store battery in a flat dry area out of direct sunlight, on hot surfaces, or in hot locations.
- Do not short circuit external contacts.
- Do not expose to temperatures above 60° C (140° F).
- Keep battery away from conductive materials, water, oxidizers, or acids.
- Only charge the battery with a Li-ion (not Lithium Iron Phosphate) charger with charge protection circuitry. Do not leave the battery unattended while charging. Always remove devices and batteries once they are fully charged.
- Charge and store the batter in a fire-retardant container if practical.
- Remove all jewelry or other metallic objects during the installation of the Battery.
- Exercise care in handling any charged Battery, particularly when placing it inside a container with metal objects.
- Do not throw the battery away in the trash. Dispose of the battery properly in accordance with local regulations. Visit the Rechargeable battery Recycling Corporation's website at [www.rbrcc.com](http://www.rbrcc.com) for more information.
- Do not use with other types of batteries connected in series or parallel.
- Regularly inspect the battery for any damage.

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- If the battery is hot, swelling, bulging, making sound, has an odor, or is smoking, immediately stop use, unplug it from any power source, and safely move the battery away from anything flammable using personal protective equipment. Dispose of the Battery.

## Transporting Battery to a Different Location

If the battery needs to be shipped to a different location for any reason:

1. Disconnect all power and charging cables from the batteries.
2. Place protective non-conductive wrap on the battery terminals, prior to removing the battery from its current location, to prevent accidental shorts or arcing from occurring in case the battery cables touch a metal object.
3. Lithium-ion batteries are considered “Dangerous Goods” by the US Department of Transportation, and as a result, transporting them by common carrier (whether by ground or by air) requires compliance with UN DOT regulations UN3480, Class 9 - “Dangerous Goods”.
4. Pack the batteries in “Dangerous Goods” certified boxes with packaging materials as specified by the Department of Transportation (DOT). The packaging must protect the contents from reasonable handling damage and prevent short circuits occurring. Ideally, one would use the original box if it’s still in good condition.
5. The package should be prepared for shipment and shipping documents should be signed by an individual who is certified to handle and prepare the paperwork and products that have been designated as “Dangerous Goods” for shipment.

**IMPORTANT: The battery is shipped in a specially designed and approved box to provide maximum protection for the contents. We strongly recommend that you save this box and use it whenever you need to transport or ship the Battery. Please follow all local laws/regulations regarding the shipment of Lithium-Ion batteries.**

## Tips for Optimizing Performance

By following the tips listed below, one can assure long life and high performance of the Battery:

- Charge all batteries fully prior to first use of the vehicle/device.
- Allow the battery to charge fully overnight periodically.
- Use at temperatures below 40° C.
- Charge battery annually to 35% – 50% State of Charge.

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- Ensure that all batteries are secured into position to minimize damage from shock and vibration.
- Periodically inspect electrical connections to ensure physical connections are tight and no corrosion is present.
- Proper thermal management will maximize life, therefore ensure adequate ventilation and cooling exists within the battery compartment.

## Product Returns

Buyer shall inspect the battery upon receipt. The Buyer shall notify MPS in writing promptly or within ten (10) calendar days of receipt if the battery is different than identified in the purchase order or, in any event, if the battery fails. The notice, communicated by email or verbally with an Account Management representative, shall describe in reasonable detail the symptoms associated with such failure, and shall provide MPS the opportunity to inspect the suspect battery as installed, if possible.

If MPS can ascertain that the suspect battery may be defective from material or workmanship issues, MPS will issue a Return of Merchandise Authorization (RMA) within ten (10) calendar days after the Buyer's notice, if such notice is provided within one (1) year of receipt of the battery. The Buyer shall package the suspect battery in its original shipping carton(s) or a functional equivalent, and shall ship it to MPS at the Buyer's expense.

Depending on the reported failure, MPS may indicate that the suspect battery may not be safe to ship via standard commercial transportation. In that case, MPS may issue a credit for the suspect battery. Returns will only be accepted by written authorization of MPS.

If MPS has determined that the suspect battery is defective, MPS will repair or replace any defective batteries for a period of one year from sale. In doing so MPS may use new or functionally equivalent, reconditioned/refurbished/pre-owned accessories or parts.

Mobile Power Solutions

Email: [orders-at-mobilepowersolutions.com](mailto:orders-at-mobilepowersolutions.com)

Phone: 503-645-6789