MIPRO

User Guide

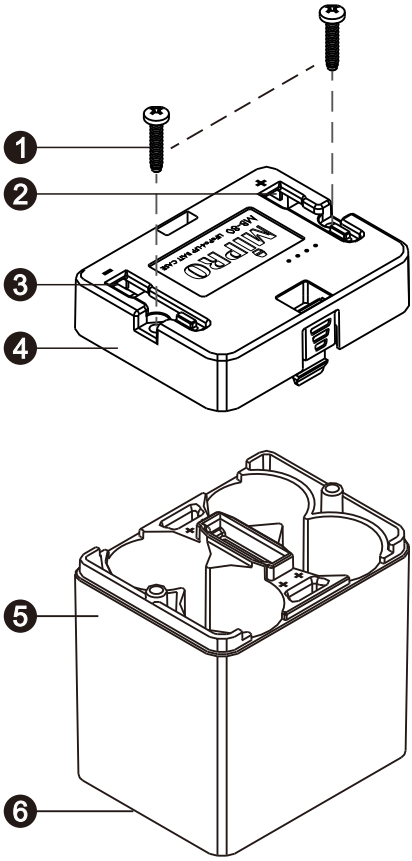
MB-80 Li-ion Battery Case

Introduction

Lithium batteries are widely recognized for having the highest cycle life and longest lifespan among batteries. High-quality lithium batteries (such as LFP batteries) have an average cycle life of over 2,000 cycles, which is more than four times that of lead-acid or standard lithium batteries. Their stable chemical structure gives them excellent resistance to "overcharging" and "over-discharging," making them ideal for long-term storage or use in harsh environments.

Additionally, since the series voltage of lithium batteries is fully compatible with 12V lead-acid batteries, users can easily upgrade devices like MIPRO portable PA systems, originally powered by lead-acid batteries, to a LFP battery system simply by replacing the internal batteries. This upgrade not only extends the lifespan of the equipment but also significantly reduces its weight, making it an economical and practical choice for improvement.

Part Names



❶ Screws

❷ Positive [+] Terminal Plate

❸ Negative [-] Terminal Plate

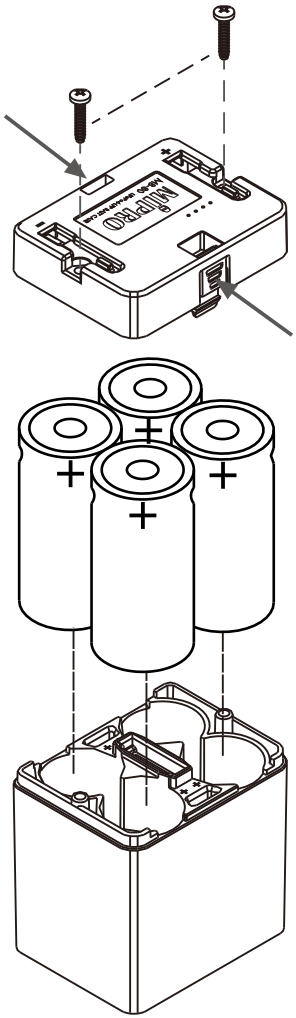
❹ Batter Case Cover

❺ Battery Case: Holds four optional 32700 type rechargeable batteries.

❻ Lower Battery Case

Battery Replacement

1. Remove the screws and press down on the movable hooks on both sides to remove the battery case cover.
2. Insert four new 32700 lithium-ion batteries (LiFePO4 or LFP batteries are recommended) into the battery case with the positive (+) terminal facing up.
3. Put back the battery case cover and tighten the screws.



Battery Type and Precautions

1. Ensure the correct installation of lithium batteries; the positive (+) terminals of all 4 batteries must face up. Incorrect installation may damage the battery case.
2. Do not mix new and old batteries, as this will shorten the lifespan of the new batteries.
3. After installing new batteries, charge them before use.
4. If the battery case is accidentally short-circuited, you can restore the normal voltage by briefly connecting a 12V power supply to the terminals.
5. Do not mix different types, sizes, or quantities of batteries, as this will affect the number of charging cycles and battery lifespan.
6. Replace all the batteries at the same time to avoid performance issues caused by inconsistent capacities.
7. Battery or product failures caused by incorrect polarity are considered user-induced damage, and the factory does not provide warranty services.
8. In case of any discrepancies in the specifications, please refer to the actual product.

Dispose of any unusable devices or batteries responsibly and in accordance with any applicable regulations.

Disposing of used batteries with domestic waste is to be avoided!

Batteries / NiCad cells often contain heavy metals such as cadmium(Cd), mercury(Hg) and lead(Pb) that makes them unsuitable for disposal with domestic waste. You may return spent batteries/ accumulators free of charge to recycling centres or anywhere else batteries/accumulators are sold.

By doing so, you contribute to the conservation of our environment!

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