



Wildlife Acoustics' 18650 Lithium-Ion Battery User Guide

Overview

Wildlife Acoustics provides an optional Lithium-Ion battery lid for the Song Meter Mini and Song Meter Mini Bat recorders. The Lithium-Ion lid can accommodate up to six rechargeable 18650 Lithium-Ion batteries for extended deployment times. This user guide provides information and warnings regarding Lithium-Ion batteries.

Warnings

Upon receipt and prior to every use or storage, inspect each battery for damage. DO NOT USE OR STORE the battery if you see dents or tears to the battery's surfaces because such damage may have compromised the battery's internal protection.

Lithium-ion batteries may explode or burn due to improper use. Using these batteries for purposes not intended by the manufacturer may cause severe injury and damage. Wildlife Acoustics is not responsible for any injuries or damage caused by lithium ion batteries.

Use at your own risk. Please read and follow these warnings:

- Never completely discharge batteries (below 2.5V under load or 3V unloaded)
- Charge fully (to 4.2V) before first use
- Never charge batteries to 4.3V or above
- Do not charge unattended
- Do not store your li-ion batteries fully charged for an extended period of time (weeks or more)
- If you must store your battery, only store in a case or individual box in a cool and dry place at approximately 3.6-3.7V
- Use only high-quality battery chargers
- Do not expose to heat
- Do not connect the positive contact to the negative contact without an appropriate load
- Never exceed the battery's specifications
- Never try to charge or discharge li-ion batteries with battery chargers that are not made for li-ion batteries
- Always charge these batteries on and within fireproof material
- Never leave rechargeable batteries in a recharging station unattended
- Do not use any rechargeable battery or charger if any visible damage is present, or if known mishandling, accidental or otherwise, has occurred
- Always store and transport rechargeable cells in a safe, non-conductive container (never keep a spare battery loose in a pocket, purse, etc. and always use protective cases)
- Properly dispose of all battery cells and chargers in accordance with local laws and mandates (if you're unsure, contact your local municipality)
- If a rechargeable battery overheats, hisses, or bulges, immediately quarantine the battery from any combustible materials - ideally, take the battery outside
- If a rechargeable battery catches fire, the FAA recommends pouring water or soda on the battery and surrounding areas - ideally, use a foam extinguisher to quell the fire

Specifications

- Max Continuous Discharging Current: 10A
- Typical Capacity: 3500 mAh (3350mAh minimum)
- Style: BUTTON top
- Approximate Dimensions (including button): 69.1mm length x 18.6 mm diameter
- Discharge cut-off voltage: 2.5V (approximate)
- Voltage: 3.6V
- Full Charge Voltage: 4.2V
- Charge Current: 1.675A standard
- Protection Cutoff Current: ~20A
- Protection IC: Ricoh R5478N101CD
- MOSFETS: FNK10N25B (Quantity 3)
- Origin: Cell made in China or Japan, button top manufactured in China, Protection IC made in Japan
- Cell Certifications: UN38.3 test report, IEC62133, CB Scheme, UL1642
- Battery Assembly Certifications: UN38.3 test report

Warranty and Returns

We cannot accept returns of Lithium-ion batteries due to regulatory restrictions on the shipment of hazardous materials. If your battery is damaged or defective on arrival (will not take its first charge, or has issues with its first cycle), please let Wildlife Acoustics know within 14 days of receiving your order and we will work with you to resolve the issue.