

Spectrometer Battery



Article Overview

Spectrometer batteries are essential for reliable operation, offering stable power, long runtime, and compatibility with portable, handheld, and benchtop spectrometers.

Types of Spectrometer Batteries

Spectrometer batteries come in several types depending on the instrument and application:

- **Lithium-ion (Li-ion):** Common in modern handheld and portable spectrometers, offering high energy density, long runtime, and lightweight design. Ideal for field use and extended operation .
- **Nickel-metal hydride (NiMH):** Rechargeable and environmentally friendly, suitable for educational or budget-conscious labs. Provides moderate capacity and reliable performance .
- **Non-rechargeable batteries (AA, AAA, 9V, D-cell):** Used in entry-level or backup spectrometers for temporary field use or low-power applications .

Key Considerations

When selecting a battery for a spectrometer, consider the following factors:

- **Capacity and Runtime:** Measured in milliampere-hours (mAh) or watt-hours (Wh), higher capacity ensures longer operation without frequent recharging .
- **Voltage and Compatibility:** Ensure the battery voltage matches the spectrometer's...

Article Content

Sep 20, 2025

XLBS 2742 Battery for Hitachi Oxford Handheld Spectrometer

Amazon : GoueTeiy XLBS 2742 Battery for Hitachi Oxford Handheld Spectrometer Analyzer X-MET Series : Industrial &

Jun 02, 2026

SpectraInsights

Are some battery chemistries better suited for the frequent, on-the-go use of spectrometers? Yes, Lithium Iron Phosphate (LiFePO₄)

Dec 02, 2025

Spectrometer for Lead and Battery Alloy Testing

Battery Alloy Testing with Optical Emission Spectrometers (OES) For industries such as automotive, electronics, and

Sep 28, 2025

Rapid Testers

Cadex was first to measure battery capacity by Electrochemical Impedance Spectroscopy (EIS) using multi-model technologies.

Dec 25, 2025

Spectrometer Battery

Spectrometer batteries must provide stable voltage, long operational life, and environmental resilience. Suppliers often offer these

Jul 01, 2026

Battery Packs for Spectroscopy

Lithium-Ion battery pack with 7000 mAh service. Includes precision 1% dual output regulator for 2x 5 VDC, and 2x 12 VDC @ 1.6

Mar 09, 2026

Spektrometerbatterie | Zuverlässige Ersatzbatterien für Labor und ...

Jede Batterie entspricht den OEM-Standards und bietet gleichbleibende Zuverlässigkeit, effizientes Laden und dauerhafte Leistung

Feb 28, 2026

Aegis™ Portable HPGe Spectrometer | Mirion

Description The Aegis transportable, battery-powered HPGe gamma spectrometer offers many state-of-the

May 20, 2026

Battery Packs

5500mA Hour battery that is rechargeable using the included universal AC adapter. Long Life rechargeable

Jan 21, 2026

PS-2600 or PS-2600A Spectrometer will not turn on or is not charging.

Following warming the battery, please reconnect the battery to the circuit board and plug the Spectrometer into USB power. Below is

Dec 07, 2025

XLBS 2742 Battery for Hitachi Oxford Handheld Spectrometer

XLBS 2742 Battery For Hitachi OXFORD Handheld Spectrometer Analyzer X-MET Series. 1 Lithium Ion batteries required.

Nov 30, 2025

Spectrometer Battery | Reliable Replacement Batteries

Shop high-quality spectrometer batteries for lab and portable instruments. Long-lasting, OEM-quality power

Apr 11, 2026

A Comprehensive Review of Spectroscopic Techniques for Lithium-Ion ...

The electrolyte solution in a lithium-ion battery typically contains lithium hexafluorophosphate (LiPF₆) dissolved in a

Oct 27, 2025

Replacement Battery, Rechargeable LiPoly 3.7V 2500mAh

A replacement battery for the SPARK Science Learning System, Wireless Spectrometer, Polarimeter, and the SPARKlink Air.

Mar 31, 2026

BP2 Battery Packs for Spectrometers & Light Sources

A High Precision DC Regulators supply a constant 5 and 12 volt power output throughout the battery live cycle; which is critical for

Dec 27, 2025

Review—Operando Optical Spectroscopy Studies of Batteries

The operando optical spectroscopy studies of batteries could be categorized into six research areas, which informed

Apr 11, 2026

Battery Compound

Battery research and development using Raman and FTIR spectroscopy Raman microscopy is primarily used in battery research

Dec 14, 2025

Lithium-Ion Battery Analysis: Four Years of Spectroscopic Advances in ...

This review summarizes developments in near-infrared (NIR), infrared (IR), Raman, X-ray fluorescence (XRF), laser

Nov 16, 2025

Spectrometer Battery | Reliable Replacement Batteries for Labs

Ensure accurate and uninterrupted measurements with high-quality spectrometer replacement batteries from StoreShopee.

Jan 26, 2026

From Spectrum to Power: Advanced Spectroscopy in Battery Production

This eBook describes many of the ways that vibrational spectroscopy tools developed by Thermo Fisher Scientific can be used to

Apr 26, 2026

Amazon : Aiefoced XLBS 2742 Battery Replacement Spectrometer

XLBS 2742 Battery Replacement Spectrometer For Oxford Hitachi X-MET7000/X-MET500 Type:XLBS 274 Li-Ion 14.4V/

Aug 20, 2025

Battery Replacement

The batteries must typically be replaced after 30,000 measurements. The iCPlate2 monitors the battery voltage and shows an "empty

Jan 05, 2026

Battery Quality Control | Solutions | Equipment

NMR Applications in Battery Quality Control And Technology Broadband benchtop
NMR spectroscopy accelerates battery research

Dec 27, 2025

Spectrometer Analyzer Replacement Battery for Niton XL2 XL2

Spectrometer Analyzer Replacement Battery for Niton XL2 XL2 Handheld XRF, 7.2V
7.8Ah, replace for P/N 420-002, li-ion About this

Aug 22, 2025

HQRP Battery Compatible with X-Rite XRite SE15-26 530 528

1. Long-Lasting Power for Precision Instruments: Ensure your X-Rite
spectrodensitometer remains accurate and reliable with this

Oct 16, 2025

From Spectrum to Power: Advanced Spectroscopy in Battery Production

Introduction The production of high-performance batteries requires a thorough
understanding of their component materials and

Feb 21, 2026

Analyses for the Li-Ion Batteries Industry | SPECTRO

With the SPECTRO ARCOS ICP-OES spectrometer and the SPECTRO XEPOS X-ray
fluorescence spectrometer, SPECTRO offers

Jul 25, 2026

Analytical solutions for improved battery and energy storage products

FTIR spectrometers accommodate an array of sampling accessories. Several third-
party companies also offer a number of

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://khanimamboguesthouse.co.za>

Email: sales@khanimamboguesthouse.co.za

Phone: +27 64 852 1973

Address: Unit 7, Greenway Business Park, 8 Innovation Drive, Centurion, 0157, South Africa

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