

Xeno XL-050F

Xeno Energy XL-050F 1/2 AA 3.6V Lithium Battery Instruction Manual

INTRODUCTION

This manual provides essential information for the safe and effective use of the Xeno Energy XL-050F 1/2 AA 3.6V Lithium Thionyl Chloride (Li-SOCl₂) battery. Please read these instructions carefully before installation and operation to ensure optimal performance and safety.

PRODUCT OVERVIEW

The Xeno Energy XL-050F is a high-performance, non-rechargeable lithium battery designed for long-term applications. It offers a stable operating voltage, very low self-discharge rate, and superior storage capability, making it suitable for various industrial and specialized uses.



Image: A single Xeno Energy XL-050F 1/2 AA 3.6V Lithium Battery, showing its cylindrical shape and branding.

SETUP AND INSTALLATION

Unpacking

Carefully remove the battery from its packaging. Inspect the battery for any visible damage. Do not use if the battery casing is punctured, swollen, or shows signs of leakage.

Installation

1. Ensure the device requiring the battery is powered off and disconnected from any external power

sources.

2. Locate the battery compartment in your device.
3. Observe the polarity markings (+ and -) inside the compartment and on the battery.
4. Insert the XL-050F battery, aligning the positive (+) and negative (-) terminals correctly. Incorrect installation can damage the device or the battery.
5. Close the battery compartment securely.

Important: This is a primary (non-rechargeable) lithium battery. Attempting to recharge it can lead to overheating, leakage, or explosion.

OPERATING

General Use

Once installed correctly, the Xeno Energy XL-050F battery will provide stable 3.6V power to your compatible device. Its high operating voltage and low self-discharge rate ensure reliable performance over extended periods.

Typical Applications

The XL-050F battery is commonly used in applications requiring long-term, reliable power, such as:

- Computer Real Time Clocks (RTC)
- Electronic Locks/Seals Devices
- GPS/GSM/ARGOS Related Systems
- Memory Back-Up systems
- Power meters, Water meters, Gas meters, Automatic Meter Reading (AMR) devices
- Security/Alarm Systems



XENO ENERGY

Very low self-discharge and good pulse discharge capabilities

Xeno Energy Lithium Batteries have high DCV and CCV level for the design with small space, have excellent pulse capability at low and medium currents and have good performance at high and low temperature conditions.

Image: Multiple Xeno Energy XL-050F batteries displayed in front of a utility meter, illustrating a common application.

MAINTENANCE

Storage

Store unused batteries in their original packaging in a cool, dry place, away from direct sunlight and extreme temperatures. Avoid storing batteries near metallic objects that could cause a short circuit.

Disposal

Lithium batteries must be disposed of responsibly. Do not dispose of batteries in household waste or by incineration. Consult your local regulations for proper recycling or disposal of lithium batteries. Many electronic stores or recycling centers accept used batteries.

TROUBLESHOOTING


Battery Not Providing Power

- **Check Polarity:** Ensure the battery is inserted with the correct positive (+) and negative (-) orientation.


- **Verify Contact:** Make sure the battery terminals are clean and making proper contact with the device's connectors.
- **Battery Life:** If the battery has been in use for an extended period, it may have reached the end of its life. Replace with a new Xeno Energy XL-050F battery.
- **Device Issue:** If a new battery also fails to power the device, the issue may lie with the device itself. Consult the device's manual.

SPECIFICATIONS

Key technical specifications for the Xeno Energy XL-050F battery:



Lithium Thionyl Chloride (Li-SOCl₂), 1/2 AA



Size:	1/2 AA
MPN:	XL-050F
Standard:	ER14252
Voltage:	3.6 V
Nominal Capacity:	1.2 Ah
Max. Cont. Current:	30 mA
Max. Pulse Current:	60 mA
Weight:	9 g
Dimension:	25.1mm (L) x 14.5mm (D)

Image: A Xeno Energy XL-050F battery alongside a table detailing its specifications, including size, voltage, and capacity.

Feature	Specification
Battery Type	Lithium Thionyl Chloride (Li-SOCl ₂)
Size	1/2 AA (ANSI / IEC: ER14252)
Nominal Voltage	3.6V
Nominal Capacity	1.2 Ah (at 1mA, 20°C, to 2.0V)
Maximum Continuous Current	30mA

Feature	Specification
Maximum Pulse Current	60mA
Operating Temperature Range	-55°C to +85°C
Weight	9g
Dimensions (Length x Diameter)	25.2mm x 14.7mm
Self-Discharge Rate	Very Low
Reusability	Single Use (Non-rechargeable)

SAFETY INFORMATION

- Do not attempt to recharge this battery. It is a primary (non-rechargeable) cell.
- Do not short-circuit, crush, puncture, or disassemble the battery.
- Do not expose the battery to fire or high temperatures (above 85°C).
- Keep batteries out of reach of children and pets.
- If the battery leaks, avoid contact with skin and eyes. In case of contact, rinse immediately with plenty of water and seek medical advice.
- Only use the specified battery type for your device.

WARRANTY INFORMATION

Xeno Energy batteries are manufactured to high-quality standards. For specific warranty details, please refer to the terms and conditions provided by your point of purchase or contact Xeno Energy directly. This warranty typically covers manufacturing defects under normal use conditions.

CUSTOMER SUPPORT

For technical assistance, product inquiries, or support, please visit the official Xeno Energy website or contact your authorized distributor. Ensure you have your product model number (XL-050F) available when seeking support.