

FLEX FX0421-Z

FLEX 24V 280W Lithium-Ion Battery Rapid Charger

Model: FX0421-Z

INTRODUCTION

Thank you for choosing the FLEX 24V 280W Lithium-Ion Battery Rapid Charger. This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your charger. Designed for speed and durability, this charger ensures your FLEX 24V batteries are ready when you are, minimizing downtime with its advanced charging technology and dual fan cooling system.

SAFETY INFORMATION

WARNING: Read all safety warnings and all instructions before using this product. Failure to follow the warnings and instructions may result in electric shock, fire, and/or serious injury.

- Do not expose the charger to rain or wet conditions. Water entering a battery charger will increase the risk of electric shock.
- Use only with specified FLEX 24V Lithium-Ion battery packs. Charging other battery packs may cause them to burst, leading to personal injury and damage.
- Do not charge damaged battery packs. If a battery pack is damaged, it must be replaced.
- Keep the charger away from heat sources, such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- Unplug the charger from the power outlet when not in use or before cleaning.
- Do not operate the charger with a damaged cord or plug. If damaged, have it repaired by a qualified service person.
- Do not disassemble the charger. Take it to a qualified service person when service or repair is required. Incorrect reassembly may result in a risk of electric shock or fire.

PRODUCT OVERVIEW

The FLEX 24V 280W Rapid Charger (FX0421-Z) is engineered for efficient and fast charging of your FLEX 24V batteries. Its robust design includes intelligent processing and dual fan cooling to optimize charging performance and battery longevity.



Figure 1: Top-down view of the FLEX 24V 280W Rapid Charger, showing the battery slot and indicator lights.



Figure 2: Angled view of the FLEX 24V 280W Rapid Charger, highlighting the indicator panel.



Figure 3: Diagram illustrating the internal components of the FLEX charger, emphasizing the dual fan cooling system for faster charging.

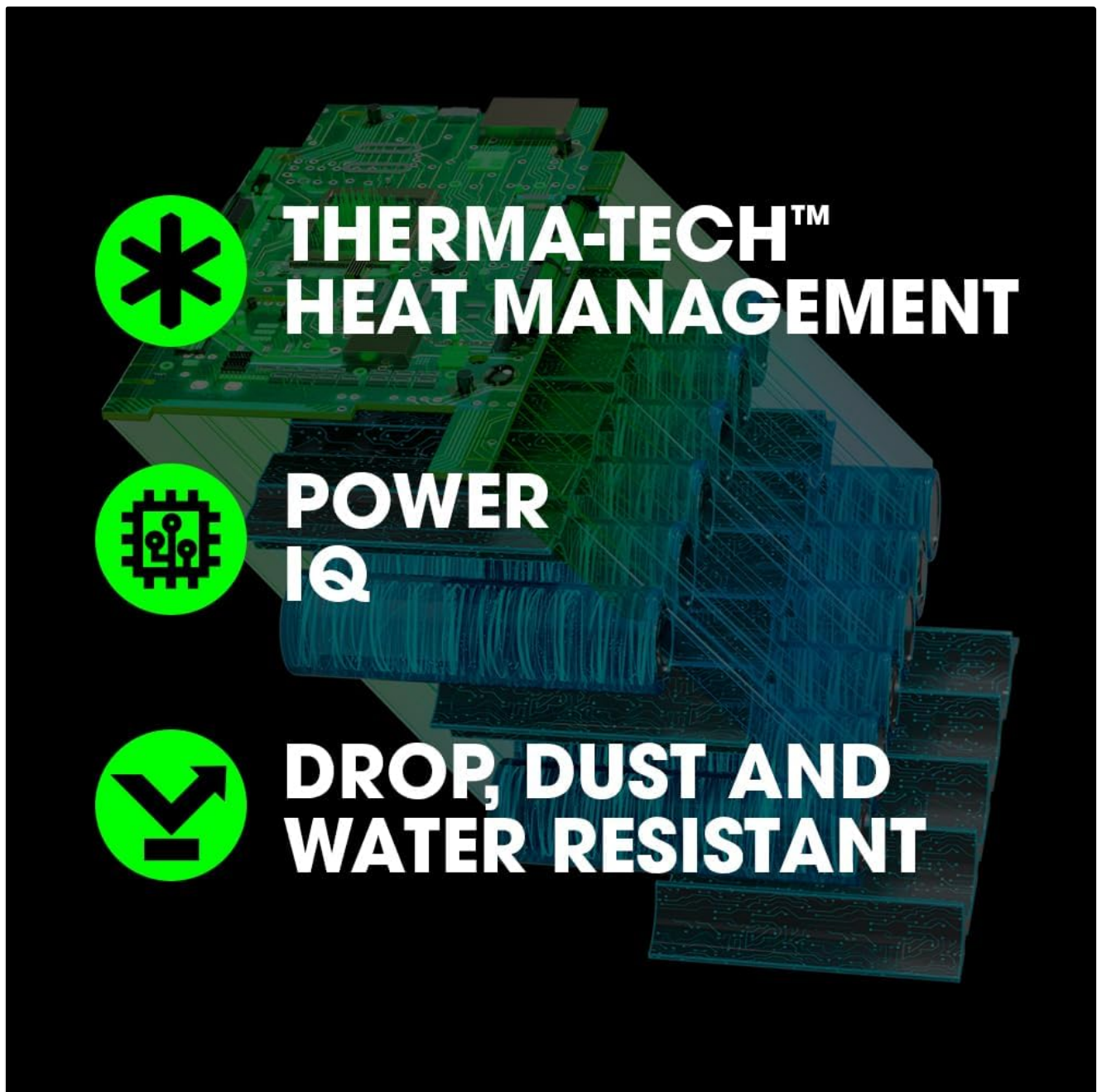


Figure 4: Visual representation of FLEX battery technology, highlighting Therma-Tech™ Heat Management, Power IQ, and resistance to drop, dust, and water.

Key Features:

- **280W Rapid Charging:** Delivers fast charging speeds for minimal downtime.
- **Dual Fan Technology:** Actively cools the charger and battery during operation to prevent overheating and extend lifespan.
- **Smart Charge Gauge:** Clear indicator lights show charging status (Full Charge, 80% Charge, Charging, High Temp/Error).
- **Battery Lock System:** Ensures secure connection and prevents accidental disconnection.
- **Wall Mountable:** Designed for convenient storage and accessibility.
- **FLEX 24V Cross-Compatibility:** Works seamlessly with all FLEX 24V batteries and tools.

SETUP

1. **Unpack the Charger:** Carefully remove the charger and any packaging materials from the box. Inspect for any damage.
2. **Placement:** Place the charger on a stable, flat, and dry surface. Ensure adequate ventilation around the charger. The charger can also be wall-mounted using appropriate fasteners (not included) through the designated mounting holes on the back.
3. **Connect to Power:** Plug the charger's power cord into a standard 120V AC electrical outlet. The indicator lights may briefly illuminate upon connection.

OPERATING INSTRUCTIONS

Charging a Battery:

1. Ensure the charger is plugged into a live power outlet.
2. Align the FLEX 24V battery pack with the charging slot on the charger.
3. Slide the battery pack firmly into the slot until it clicks securely into place. The battery lock system will engage.
4. The charger's indicator lights will illuminate to show the charging status. The cooling fans may activate during charging.
5. Once charging is complete, the 'Full Charge' indicator will light up.
6. To remove the battery, press the release tabs on the sides of the battery pack and slide it out of the charger.

Charging Indicator Lights:

Indicator	Status
Green (Solid)	Full Charge
Green (Flashing)	80% Charge
Green (Scrolling)	Charging
Red (Solid)	High Temperature / Error

Approximate Charging Times:

280W RAPID CHARGER

24V 2.5Ah LITHIUM

30
MINUTES

24V 5.0Ah LITHIUM

30
MINUTES

24V 8.0Ah LITHIUM

50
MINUTES

24V 12.0Ah LITHIUM

75
MINUTES

Figure 5: Table showing approximate charging times for various FLEX 24V Lithium-Ion batteries.

- 24V 2.5Ah Lithium: Approximately 30 Minutes
- 24V 5.0Ah Lithium: Approximately 30 Minutes
- 24V 8.0Ah Lithium: Approximately 50 Minutes
- 24V 12.0Ah Lithium: Approximately 75 Minutes

**Charging times may vary based on battery condition, ambient temperature, and power source.*

Product Compatibility:

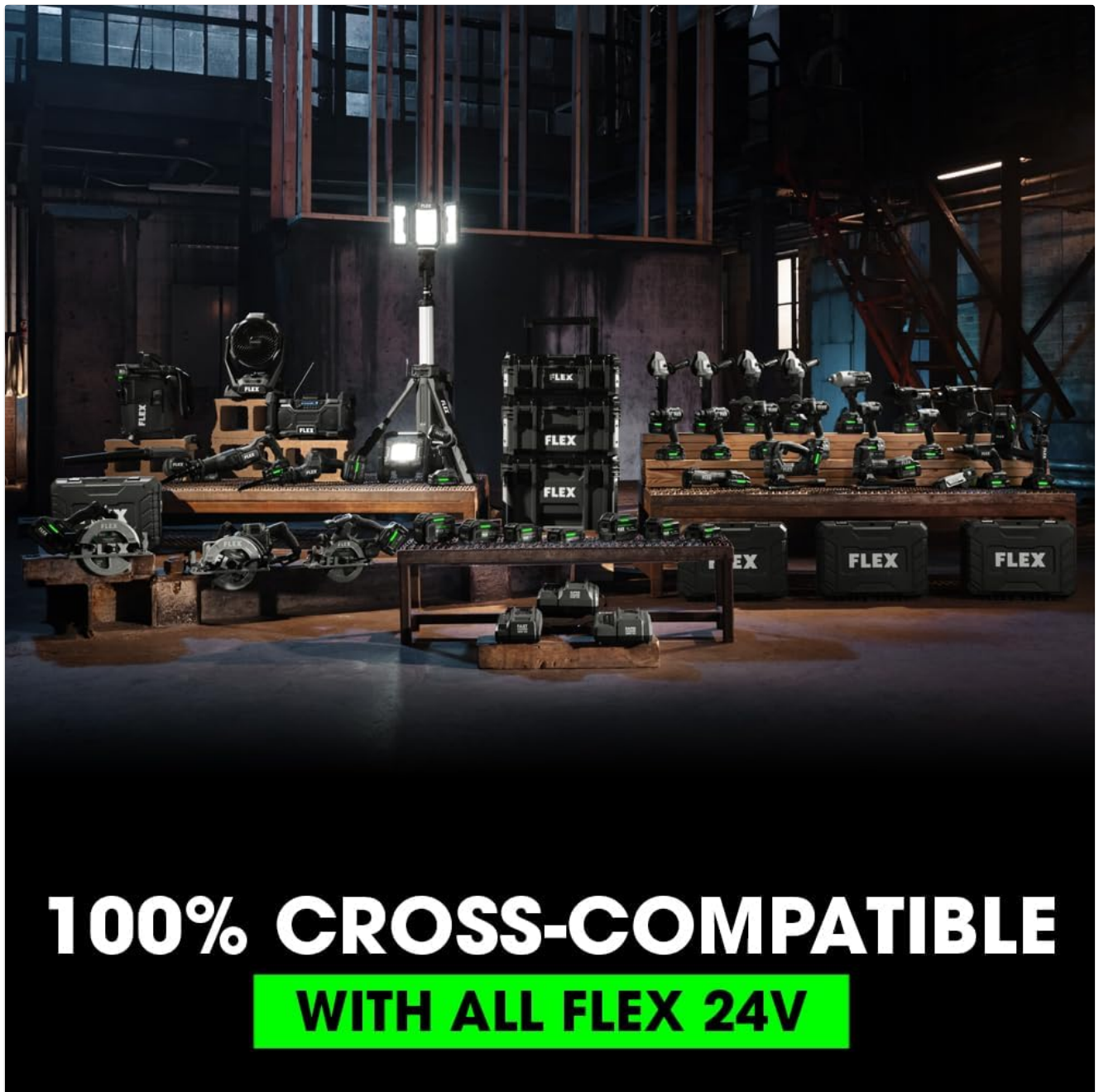


Figure 6: An array of FLEX 24V tools and batteries, demonstrating their 100% cross-compatibility.

The FLEX 24V 280W Rapid Charger is designed to be 100% cross-compatible with all FLEX 24V batteries, chargers, and tools, ensuring a versatile and efficient power system for your projects.

MAINTENANCE

- **Cleaning:** Disconnect the charger from the power supply before cleaning. Use a soft, damp cloth to wipe down the exterior of the charger. Do not use harsh chemicals, abrasive cleaners, or solvents, as these can damage the plastic components.
- **Storage:** Store the charger in a cool, dry place, away from direct sunlight and moisture. Ensure the charger is unplugged when not in use for extended periods.
- **Inspection:** Periodically inspect the power cord and charger housing for any signs of damage. If any damage is found, do not use the charger and contact FLEX customer support for assistance.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Charger not powering on	No power to the outlet; Damaged power cord/plug	Check if the outlet is live by plugging in another device. Inspect the power cord and plug for damage.
Battery not charging (no indicator lights)	Battery not properly seated; Battery is too hot/cold; Battery is damaged	Ensure the battery is fully inserted and clicks into place. Allow battery to reach room temperature (40°F - 104°F / 4°C - 40°C). If battery is damaged, replace it.
Red (Solid) indicator light	High temperature or other error	Remove the battery and allow both the battery and charger to cool down in a well-ventilated area. Reinsert the battery. If the error persists, contact customer support.

SPECIFICATIONS

- **Model Number:** FX0421-Z
- **Product Dimensions:** 7.3 x 7.6 x 3.7 inches (18.5 x 19.3 x 9.4 cm)
- **Item Weight:** 2.33 pounds (1.06 kg)
- **Output Voltage:** 24 Volts
- **Power Output:** 280W
- **Color:** Grey/Black
- **Compliance:** Energy Star Certified

WARRANTY AND SUPPORT

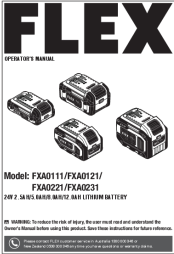

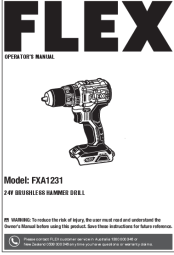


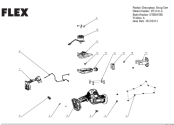
FLEX Limited Lifetime Warranty: Register your new FLEX tool, battery, or charger within 30 days of purchase through December 31, 2025, at registermyFLEX.com to receive a limited lifetime warranty. Please refer to the official FLEX website for full warranty terms and conditions.

Customer Support: For technical assistance, service, or replacement parts, please visit the official FLEX website or contact their customer service department. Always provide your product model number (FX0421-Z) when seeking support.

OFFICIAL PRODUCT VIDEOS

No official product videos from the seller are available for this specific model at this time.

Related Documents - FX0421-Z

	<p>FLEX 24V Lithium-ion Battery Operator's Manual and Safety Guide</p> <p>Operator's manual for FLEX 24V Lithium-ion batteries (FXA0111, FXA0121, FXA0221, FXA0231). Provides essential safety instructions, operating procedures, maintenance guidelines, and warranty information for FLEX power tool batteries.</p>
	<p>FLEX FX5351 24V Jobsite Radio Operator's Manual</p> <p>Operator's manual for the FLEX FX5351 24V Jobsite Radio, covering safety instructions, functional descriptions, specifications, operating instructions, maintenance, and warranty information.</p>
	<p>FLEX FXA1231 24V Brushless Hammer Drill Operator's Manual</p> <p>Operator's manual for the FLEX FXA1231 24V Brushless Hammer Drill, covering safety instructions, operation, maintenance, and warranty information.</p>
	<p>FLEX FX4321A 24V 16GA Angle Nailer Operator's Manual</p> <p>Comprehensive operator's manual for the FLEX FX4321A 24V 16GA Angle Nailer, covering safety instructions, assembly, operation, and maintenance.</p>
	<p>FLEX FX7221 24V 10-Inch Table Saw Operator's Manual</p> <p>Comprehensive operator's manual for the FLEX FX7221 24V 10-Inch Table Saw, covering safety instructions, assembly, operation, maintenance, and troubleshooting for optimal performance and safety.</p>
	<p>FLEX FX2241-Z Recip Saw Parts List and Diagram</p> <p>Detailed parts list and diagram for the FLEX FX2241-Z One-Handed Reciprocating Saw, including part numbers, descriptions, and quantities.</p>

