

Ingco FBI2001A

Ingco 20V 2.0Ah Lithium-Ion Battery (Model FBI2001A) Instruction Manual

Brand: Ingco

Model: FBI2001A

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1. SAFETY INSTRUCTIONS

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

- Use only with compatible Ingco 20V P20S tools and chargers.
- Do not expose the battery pack to water or extreme temperatures (above 40°C / 104°F or below 0°C / 32°F).
- Do not short-circuit the battery terminals.
- Do not attempt to open, disassemble, or modify the battery pack.
- Dispose of batteries responsibly according to local regulations. Do not dispose of in fire.
- Keep the battery pack out of reach of children.
- If the battery pack is damaged, do not use it. Contact customer support.
- Avoid dropping the battery pack. If dropped, inspect for damage before further use.

2. PRODUCT OVERVIEW

The Ingco FBI2001A is a 20V 2.0Ah Lithium-Ion battery designed for use with all Ingco 20V P20S power tools. It features an LED power indicator and multiple internal protection mechanisms to ensure safe and reliable operation.

Key Features

- Compatible with all INGCO P20S Tools.

- No memory effect, ensuring the battery is always ready to use.
- Low self-discharge rate for extended shelf life.
- LED battery power indicator for precise battery level monitoring.
- Protection against over-discharge, over-heating, and overload.
- Extremely long life thanks to balance charge technology.

Battery Components

Parameter Information

Voltage:20V==

Lithium-Ion 2.0Ah battery

LED battery power indicator

Suitable for INGC0 20V multiple tools

Packed by color box

Light and compact



This image highlights the key external features of the Ingco 20V 2.0Ah battery, including the battery replacement button, power indicator, and mounting slot.



This image shows an exploded view of the Ingco 20V 2.0Ah Lithium-Ion battery, illustrating its internal components including the 2.0Ah capacity cells and the single battery management system.

3. SETUP AND CHARGING

Installing the Battery

1. Align the battery pack with the battery slot on your Ingco 20V P20S tool.
2. Slide the battery into the tool until it clicks securely into place. Ensure it is fully seated to prevent accidental detachment during operation.

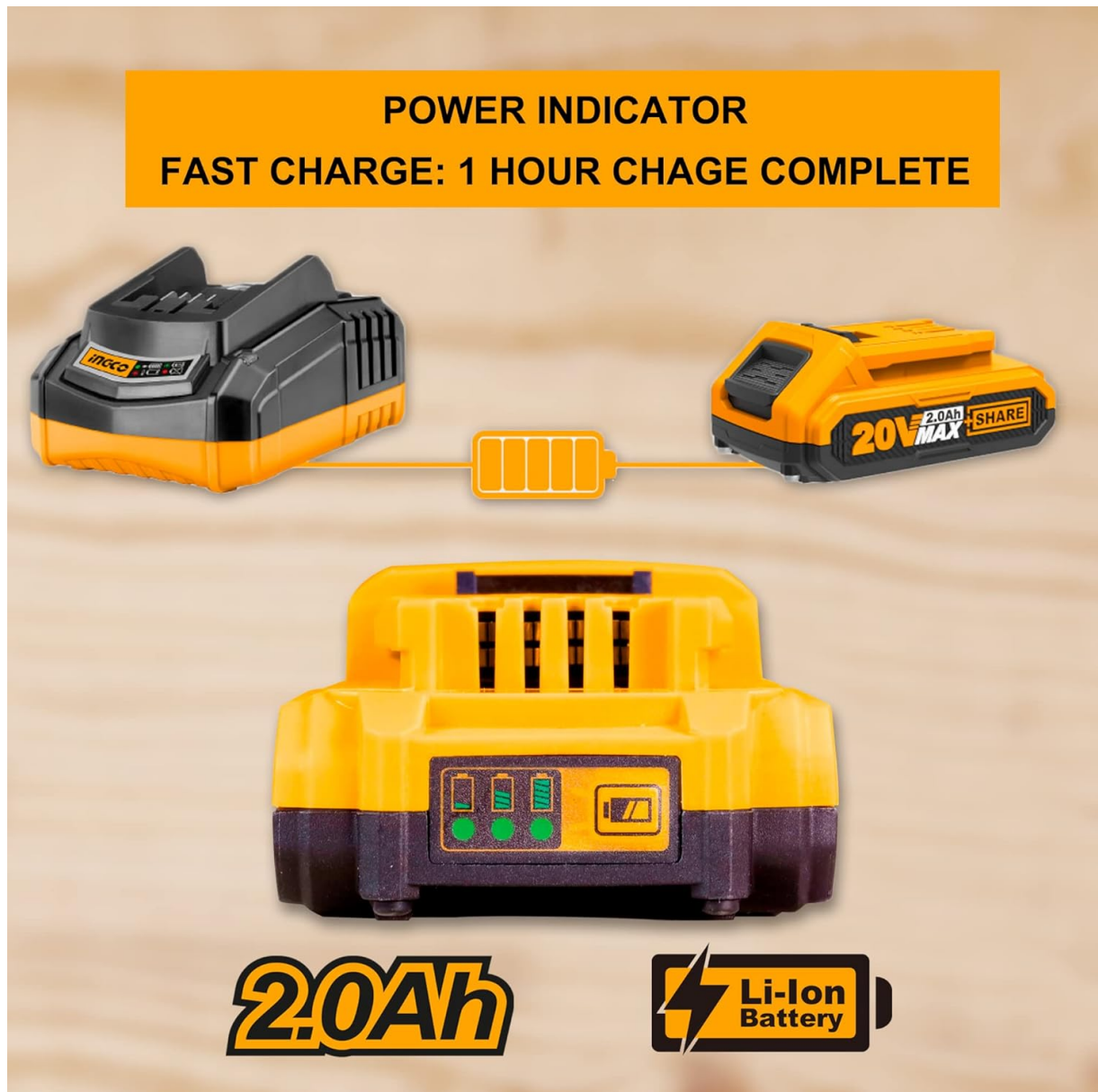
Removing the Battery

1. Press and hold the battery release button, typically located on the front or side of the battery pack (refer to the 'Battery Components' image in Section 2).
2. Slide the battery out of the tool.

Charging the Battery

The Ingco FBI2001A battery requires a compatible Ingco 20V charger (not included). Always use an original Ingco charger for optimal performance and safety.

1. Connect the charger to a standard power outlet.
2. Slide the battery pack onto the charger, ensuring it is properly aligned and seated.
3. The charger's indicator lights will display the charging status. Refer to your specific charger's manual for detailed information on light patterns (e.g., solid red for charging, solid green for fully charged).
4. A full charge for the 2.0Ah battery typically takes approximately 1 hour.
5. Once fully charged, remove the battery from the charger.



This image illustrates the charging process for the Ingco 20V 2.0Ah battery, showing the battery connected to a charger and indicating a fast charge time of 1 hour.

4. OPERATING INSTRUCTIONS

Checking Battery Power

The Ingco 20V 2.0Ah battery features an LED power indicator. To check the current charge level, press the button located next to the indicator lights. The number of illuminated LEDs will indicate the remaining battery capacity.

Using with Ingco 20V P20S Tools

This battery is designed for seamless integration with all Ingco 20V P20S series power tools. Ensure the

battery is fully charged before use for optimal performance and to maximize tool run time.

This video demonstrates the Ingco 20V 2.0Ah battery powering various Ingco 20V P20S tools, showcasing its versatility and compatibility across the tool range.

5. MAINTENANCE AND STORAGE

Cleaning

Keep the battery contacts clean and free from debris. Use a dry, soft cloth to wipe away any dust or dirt. Do not use liquids or solvents.

Storage

- Store the battery pack in a cool, dry place, away from direct sunlight, moisture, and flammable materials.
- For long-term storage, it is recommended to charge the battery to approximately 50-70% capacity.
- Avoid storing the battery in temperatures below 0°C (32°F) or above 40°C (104°F).
- If storing for extended periods, periodically check the charge level and recharge to 50-70% if necessary.

Battery Protection Features

The Ingco 20V 2.0Ah battery is equipped with advanced internal protection mechanisms to ensure longevity and safe operation:

- **Over-Voltage Protection:** Prevents damage to the battery cells from excessive charging voltage.
- **Over-Current Protection:** Safeguards the battery against high current draw that could lead to overheating or damage.
- **Over-Temperature Protection:** Shuts down battery operation if the internal temperature exceeds safe limits, preventing thermal damage.
- **Charge Protection:** Manages the charging process to prevent overcharging, which can degrade battery life.



This image displays icons representing the various protection features of the Ingco 20V 2.0Ah battery, including over-voltage, over-current, over-temperature, and charge protection.

EFFICIENT COOLING SYSTEM PROTECT FROM HIGH TEMPERATURE OPERATION



This image illustrates the efficient cooling system of the Ingco 20V 2.0Ah battery, designed to protect it from high-temperature operation and enhance its lifespan.

6. TROUBLESHOOTING

If you encounter issues with your Ingco 20V 2.0Ah battery, refer to the table below for common problems and solutions.

Problem	Possible Cause	Solution
Battery not charging	Charger not connected, faulty charger, battery too hot/cold	Ensure the charger is securely plugged into a working power outlet. Check the charger for any visible damage. Allow the battery to reach room temperature (between 0°C and 40°C) before attempting to charge.
Tool not operating	Battery not fully inserted, battery discharged, faulty tool	Ensure the battery is securely clicked into place in the tool. Check the battery's charge level using the LED indicator and recharge if necessary. If the issue persists, test the tool with another known-good battery or contact tool support.

Problem	Possible Cause	Solution
Short run time	Battery not fully charged, battery nearing end of life, heavy load on tool	Ensure the battery is fully charged before use. Battery capacity naturally decreases over time with repeated charge cycles. Consider replacing an aging battery. Reduce the load on the tool if possible.
Battery feels hot during use/charging	Normal operation under heavy load, overcharging, faulty battery	Some heat is normal during heavy use or charging. If it feels excessively hot, stop use/charging immediately and allow it to cool. Ensure you are using a compatible charger. If overheating persists, discontinue use and contact support.

7. SPECIFICATIONS

Detailed technical specifications for the Ingco 20V 2.0Ah Lithium-Ion Battery (Model FBLI2001A).

Feature	Detail
Voltage	20V
Battery Type	Lithium-Ion
Capacity	2.0Ah
Model Number	FBLI2001A
Item Weight	7.4 ounces
Product Dimensions	4.92 x 3.35 x 1.18 inches
Manufacturer	INGCO
Recommended Uses	INGCO Power Tools

20V MAX

SHARE

P20S



SAME BATTERY 120+ TOOLS

Compatible with all Ingco Li-ion P20S Tools

This image provides a summary of the Ingco 20V 2.0Ah battery's key parameter information, including voltage, battery type, capacity, and compatibility.

8. WARRANTY AND SUPPORT

For detailed warranty information regarding your Ingco 20V 2.0Ah Lithium-Ion Battery, please refer to the warranty card included with your purchase or visit the official Ingco website. Keep your purchase receipt as proof of purchase for any warranty claims.

For technical support, service, or inquiries, please contact your local authorized Ingco dealer or Ingco customer service through their official channels.