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Mellif MFDC204

Mellif 20V 4.0Ah Li-Ion Battery and Fast Charger Kit

INSTRUCTION MANUAL

1. Safety Information

Read all safety warnings, instructions, illustrations, and specifications provided with this power tool battery and charger. Failure to follow all instructions listed below may result in electric shock, fire, and/or serious injury.

- Battery Safety:** Do not disassemble, crush, or expose the battery to temperatures above 140°F (60°C). Do not short-circuit the battery terminals. Keep batteries away from children.
- Charger Safety:** Use only the specified charger for this battery. Do not expose the charger to rain or wet conditions. Do not use the charger if it has received a sharp blow, been dropped, or otherwise damaged.
- Environmental Conditions:** The battery is designed to be cold-resistant down to -4°F (-20°C) and features a shock-resistant design. However, avoid extreme conditions when possible to prolong battery life.
- Advanced BMS Protection:** The battery features an Advanced Battery Management System (BMS) for protection against overcharge, over-discharge, overheating, and short circuits.



Image: Mellif 20V 4.0Ah Li-Ion Battery highlighting its Advanced BMS Safety System, including protections against short-circuit, low-voltage, and overheat.

2. Product Overview

The Mellif 20V 4.0Ah Li-Ion Battery and Fast Charger Kit provides reliable power for your compatible tools. The battery offers a 10C/40A high discharge rate for consistent performance, while the 4.0A fast charger ensures quick recharging.

Key Features:

- **High-Performance Battery:** 20V 4.0Ah Li-Ion with 10C/40A discharge rate.
- **Fast Charging:** 4.0A charger fully recharges batteries in 60 minutes or less.
- **Smart Charging Technology:** Trickle-to-fast-to-trickle cycle to protect battery life.
- **Broad Compatibility:** Works with all Mellif 20V and DeWalt 20V MAX batteries and tools.
- **Durable Design:** Extreme weather and shock resistant.



Advanced **BMS** Safety System



Short-Circuit Protection



Low-Voltage Protection



Short-Circuit Protection



Low-Voltage Protection



Overheat Protection



Image: The Mellif 20V 4.0Ah Li-Ion Battery and its dedicated fast charger, shown side-by-side.

Fully Charged in 1 Hour

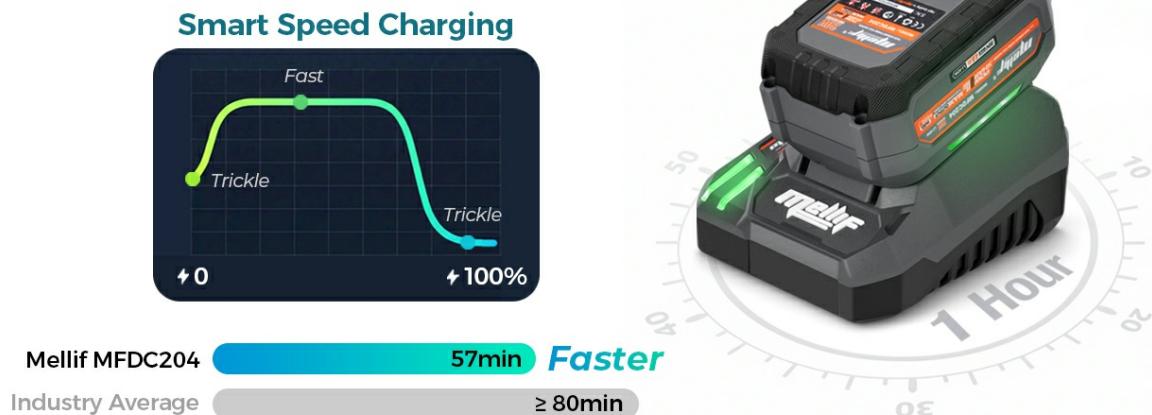


Image: Mellif 20V 4.0Ah Li-Ion Battery illustrating its reliable energy features: Fast Charge, Full Protection, Smart Charge, and Wide Support.

3. Setup

3.1 Unboxing and Initial Inspection

Carefully remove the battery and charger from their packaging. Inspect both items for any signs of damage. If any damage is found, do not use the product and contact customer support.

Your browser does not support the video tag.

Video: This video demonstrates the unboxing process of the Mellif 20V 4.0Ah Li-Ion Battery and Charger, showing how to safely remove components from the packaging.

3.2 Connecting the Charger

1. Plug the charger's AC cable into a standard 110V AC power outlet.
2. Ensure the charger is placed on a stable, non-flammable surface.

3.3 Initial Battery Charge

For optimal performance, fully charge the battery before its first use.

4. Operating Instructions

4.1 Charging the Battery

1. Align the battery with the charger's slot and slide it in until it clicks securely into place.
2. The charging indicator light on the charger will illuminate, indicating that charging has begun.
3. Once fully charged, the fully-charged indicator light will turn on, and the charging process will stop automatically.
4. To remove the battery, press the release button and slide the battery off the charger.



Compatible with DeWalt and Mellif 20V Batteries

Fast and Smart

Model	MDC204
Voltage	18-20 V
Input	110-120V,60Hz
Output	20V
Charging Current	4A
Charging Power	88W
Weight	1.1LBS (0.5 KG)
AC Cable Length	5.9 FT

Disclaimer: All items are made by third-party suppliers.
Trademarks are used only to show compatibility.

Image: Mellif 20V 4.0Ah Li-Ion Battery on its charger, illustrating a full charge in approximately 1 hour with smart speed charging.

Your browser does not support the video tag.

Video: This video demonstrates the charging process of the Mellif 20V 4.0Ah Li-Ion Battery, showing how to place it on the charger and observe the indicator lights.

4.2 Inserting Battery into a Tool

1. Ensure the tool is turned off before inserting or removing the battery.
2. Align the battery with the tool's battery port.
3. Slide the battery into the tool until it clicks firmly into place.



Image: A hand holding the Mellif 20V 4.0Ah Li-Ion Battery, demonstrating its multi-fit compatibility with both DeWalt 20V MAX and Mellif 20V tools.

4.3 Battery Charge Indicator

The battery features an on-board charge indicator. Press the button on the battery to view the current charge level. This helps monitor remaining power during use.

Your browser does not support the video tag.

Video: This video showcases the Mellif 20V 4.0Ah Battery's features, including its large capacity, high discharge rate, and intelligent BMS protection, and demonstrates its compatibility with various power tools.

5. Maintenance

5.1 Cleaning

Keep the battery and charger clean. Use a dry cloth to wipe off any dust or debris. Do not use water or chemical cleaners.

5.2 Storage

Store the battery and charger in a cool, dry place away from direct sunlight and extreme temperatures. For long-term storage, ensure the battery is partially charged (around 50%).

5.3 Extreme Conditions

The battery is designed for extreme weather and shock resistance. While it can operate in temperatures down to -4°F (-20°C) and withstand impacts, prolonged exposure to harsh conditions should be minimized to extend its lifespan.

Built to Handle More



Image: The Mellif 20V 4.0Ah Li-Ion Battery demonstrating its cold-resistant capability in a snowy environment and its impact-proof design after being dropped.

6. Troubleshooting

Common Issues and Solutions:

Problem	Possible Cause	Solution
Battery not charging	Charger not plugged in; poor connection; damaged battery/charger	Check power connection; ensure battery is seated correctly; inspect for damage.
Tool not operating	Battery not inserted correctly; battery discharged; tool malfunction	Ensure battery is fully inserted; check battery charge level; consult tool's manual.
Charger indicator lights not working	No power; charger malfunction	Verify power supply; contact customer support if issue persists.

If you encounter issues not listed here or if solutions do not resolve the problem, please contact Mellif customer support.

7. Specifications

Mellif 20V 4.0Ah Li-Ion Battery (Model: MFDC204)

- **Voltage:** 18-20 Volts

- **Battery Capacity:** 4000 mAh
- **Battery Type:** Li-ion (18650 cells)
- **Item Weight:** 2.68 pounds
- **Product Dimensions:** 7.09 x 4.53 x 5.7 inches

Mellif Fast Charger

- **Input Voltage:** 110 Volts
- **Output Voltage:** 20 Volts
- **Charging Current:** 4.0 Amps
- **Charging Time:** Approximately 60 minutes for 4.0Ah battery

8. Warranty and Support

The Mellif 20V 4.0Ah Li-Ion Battery and Fast Charger Kit is backed by a **5-year warranty**, ensuring long-lasting peace of mind. This warranty covers defects in materials and workmanship under normal use.

For warranty claims, technical support, or any questions regarding your product, please refer to the contact information provided with your purchase or visit the official Mellif website.