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Mellif MFDC204

Mellif 20V 4.0 Battery & Fast Charger Kit Instruction Manual

Model: MFDC204

INTRODUCTION

This manual provides essential instructions for the safe and efficient use of your Mellif 20V 4.0 Battery and Fast Charger Kit. Please read all instructions carefully before operation and retain this manual for future reference.

IMPORTANT SAFETY INFORMATION

WARNING: Always follow basic safety precautions to reduce the risk of fire, electric shock, and personal injury.

- Do not expose the battery or charger to water or rain.
- Do not charge the battery in a damp or wet environment.
- Do not incinerate the battery.
- Do not short-circuit the battery terminals.
- Use only with specified Mellif or DeWalt 20V MAX compatible tools and chargers.
- Keep out of reach of children.

PRODUCT OVERVIEW

The Mellif 20V 4.0Ah Battery and Fast Charger Kit is designed to provide reliable power for your compatible cordless tools. The battery features a high discharge rate and intelligent protection systems, while the charger ensures quick and safe charging.

Battery Features

- **High-Performance 20V 4.0Ah:** Delivers 10C/40A high discharge rate for consistent power.
- **No Memory Effect & Low Self-Discharge:** Ensures maximum productivity and readiness.
- **Extreme Weather & Shock Resistant:** Operates reliably down to -4°F (-20°C) and withstands jobsite impacts.

- **Integrated Fuel Gauge:** LED indicator button to check remaining battery life.
- **Advanced BMS Safety System:** Protects against overcharge, over-discharge, overheating, and short circuits.
- **USB-A & USB-C Ports:** For charging external devices (e.g., mobile phones).

Reliable Energy

20v | 4000mAh

- Fast Charge
- Full Protection
- Smart Charge
- Wide Support

5 YEAR

Figure 1: Mellif 20V 4.0Ah Battery with highlighted features.



Figure 2: Advanced BMS Safety System and Battery Specifications.

Charger Features

- **4.0A Fast Charger:** Fully charges Mellif 20V and DeWalt 20V MAX lithium-ion batteries in 60 minutes or less.
- **Smart Charging Technology:** Utilizes a trickle-to-fast-to-trickle cycle to protect battery life and prevent overcharging.
- **Charging Indicator Light:** Provides clear status of the charging process.
- **Built-in Vents:** For efficient heat dissipation during charging.

Advanced **BMS** Safety System

MA | IAC-MA | CNAS

- Short-Circuit Protection
- Low-Voltage Protection
- Low-Voltage Protection
- Overheat Protection
- Short-Circuit Protection

Model	MFDC204
Voltage	18-20 V
Battery Capacity	4000 mAh
Battery Type	18650 Li-ion
Weight	1.4LBS (0.65 KG)

Figure 3: Mellif 4.0 Amp Rapid-Charger with highlighted features.



Figure 4: Charger Compatibility and Specifications.

SETUP

Unpacking

Carefully remove all components from the packaging. Inspect for any damage. Ensure all items listed in the package contents are present.

Initial Battery Charge

Before first use, fully charge the battery. Connect the 4.0A Fast Charger to a standard power outlet. Slide the Mellif 20V 4.0Ah battery onto the charger until it clicks into place. The charger's indicator light will show the charging status. A full charge typically takes 60 minutes or less.

Your browser does not support the video tag.

Video 1: Official Mellif video demonstrating the charging process for the 20V battery and charger kit.

Your browser does not support the video tag.

Video 2: Demonstration of charging a Mellif 20V battery with a DCB112 compatible charger.

OPERATING INSTRUCTIONS

Attaching/Detaching Battery to Tool

To attach the battery, align the battery with the tool's battery port and slide it in until it clicks securely. To detach, press the battery release button (typically located on the battery itself) and slide the battery off the tool.



Figure 5: Mellif 20V Battery compatibility with various tools.

Your browser does not support the video tag.

Video 3: Official Mellif video demonstrating the battery's power and compatibility with tools.

Checking Battery Charge Level

Press the LED indicator button on the battery to view the current charge level. The illuminated LEDs indicate the remaining power.



Figure 6: Integrated Fuel Gauge on the battery and charger.

Charging External Devices (USB Output)

The Mellif 20V 4.0Ah battery includes USB-A and USB-C output ports. Open the protective flap on the battery to access these ports. Connect your USB-powered device (e.g., smartphone, tablet) to the appropriate port to charge it using the battery's power.

MAINTENANCE

General Care

Keep the battery and charger clean and dry. Wipe with a soft, dry cloth. Do not use solvents or harsh chemicals. Regularly inspect for any signs of damage or wear.

Storage

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

Extreme Conditions

The battery is designed to be extreme weather and shock resistant, operating effectively in temperatures as low as -4°F (-20°C). However, prolonged exposure to extreme conditions should be avoided to maximize battery life.

TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Battery not charging	Charger not plugged in; battery not properly seated; battery or charger fault.	Check power connection; re-seat battery; inspect for damage.
Charger indicator light is red/flashing	Battery too hot/cold; battery fault; charger fault.	Allow battery to reach room temperature; contact support if issue persists.
Tool not operating with charged battery	Battery not properly seated; tool fault; battery fault.	Re-seat battery; test battery with another tool; contact tool manufacturer or Mellif support.

The Advanced BMS provides comprehensive protection against overcharge, over-discharge, overheating, and short circuits. If a protection mechanism is triggered, the battery or tool may temporarily cease operation. Allow the battery to cool down or reset by removing and re-inserting it.



Figure 7: Comprehensive Protection Features.

SPECIFICATIONS

Feature	Detail
Battery Model	MFDC204
Battery Voltage	20V (18-20V)
Battery Capacity	4.0Ah (4000 mAh)
Battery Type	Lithium-Ion (18650 Li-ion cells)
Charger Model	MDC204 (DCB112 compatible)
Charger Input Voltage	110-120V, 60Hz
Charger Output Voltage	20V
Charging Current	4A
Charging Power	88W
Full Charge Time	~60 minutes (for 4.0Ah battery)

Feature	Detail
Product Dimensions	7.09 x 4.53 x 5.7 inches
Item Weight	3.12 pounds (1.42 Kilograms)

WARRANTY AND SUPPORT

Warranty

This Mellif 20V 4.0 Battery & Fast Charger Kit is backed by a 5-year warranty, ensuring long-lasting peace of mind. Please retain your proof of purchase for warranty claims.

Customer Support

For any questions, troubleshooting assistance, or warranty inquiries, please contact Mellif customer support. Refer to the product packaging or the official Mellif website for contact details.