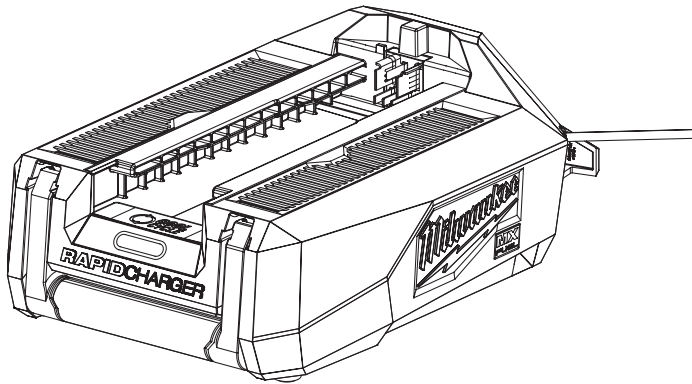




# OPERATOR'S MANUAL



Cat. No.  
**MXF RC**

## **MX FUEL™ RAPID CHARGER**



### **WARNING**

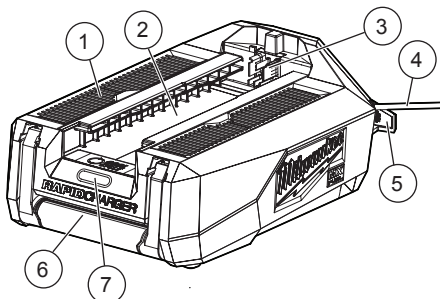
To reduce the risk of injury, user must read and understand operator's manual.

# IMPORTANT SAFETY INSTRUCTIONS - SAVE THESE INSTRUCTIONS -







**WARNING** READ AND UNDERSTAND ALL INSTRUCTIONS. Failure to follow all instructions listed below, may result in electric shock, fire and/or serious personal injury.

- SAVE THESE INSTRUCTIONS** - This manual contains important safety and operating instructions for the **MILWAUKEE® MX FUEL™** Li-Ion charger and **MILWAUKEE® MX FUEL™** Li-Ion batteries.
- Before using the battery and charger, read this operator's manual, machine's operator's manual, and all labels on the battery pack, charger and machine.
- CAUTION** Use **MILWAUKEE®** Li-Ion batteries only on recommended **MILWAUKEE®** Li-Ion products (i.e., **MX FUEL™** batteries with **MX FUEL™** charger/machines). Do not use counterfeit, aftermarket, or "knockoff" batteries or chargers. Do not wire a battery to a power supply plug or car cigarette lighter.
- This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.
- Avoid dangerous environments.** Do not expose to or charge in rain, snow, damp, or wet locations. Do not use battery or charger in the presence of explosive atmospheres (gaseous fumes, dust or flammable materials). Sparks may be generated when inserting or removing battery pack, possibly causing fire.
- Only charge in a well ventilated area and within the Recommended Ambient Charging Temperature range.** Do not block vents; keep them clear for proper ventilation. Do not allow smoking or open flames near a charging battery pack. Vented gases may explode.
- Maintain charger cord.** When unplugging charger, pull plug rather than cord. Never carry charger by its cord. Keep cord from heat, oil and sharp edges. Ensure cord will not be stepped on, tripped over, damaged, or stressed. Do not use charger with damaged cord or plug. If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- Avoid using an extension cord when possible.** When unavoidable, use an extension cord in good electrical condition with the proper wire gauge and length for the current rating of the charger. The pin size and shape must match the pins on the charger cord.
- Charger is rated for 100-240V, 50Hz AC only.** Charger must be plugged into an appropriate outlet.
- Use only recommended attachments.** Use of an attachment not recommended or sold by the battery charger or battery manufacturer may result in a risk of fire, electric shock or personal injury.
- Unplug charger and remove batteries when not in use.**
- Always unplug charger before cleaning or maintenance.** Do not allow water to flow into unit or batteries. Use a Residual Current Device (RCD) to reduce shock hazards.
- DANGER** Do not touch uninsulated battery terminals.
- Do not burn, incinerate, or expose batteries to fire or excessive temperatures above 130°C (265°F).** Batteries may explode. Toxic fumes and materials are created when batteries are burned.
- Do not crush, drop, shred, modify, or damage battery. Always securely contain battery packs during transport.** Do not use a battery pack that has received a sharp blow, been dropped, run over, or damaged in any way (e.g., pierced with a nail, hit with a hammer, stepped on, in a vehicle accident). Do not use or charge batteries that appear damaged or swollen, or are not functioning properly. Damaged or modified batteries may exhibit unpredictable behaviour.
- Do not disassemble or attempt to repair battery pack or charger.** No internal serviceable parts. Take batteries that have been damaged, broken, or need repair to a **MILWAUKEE®** service facility to ensure the safety of the product is maintained.
- Battery chemicals cause serious burns.** Never allow contact with skin, eyes, or mouth. If a damaged battery leaks battery chemicals, use rubber or neoprene gloves to dispose of it. If skin is exposed to battery fluids, wash with soap and water and rinse with vinegar. If eyes are exposed to battery chemicals, immediately flush with water for 20 minutes and seek medical attention.
- Do not short circuit.** A short-circuited battery may cause fire, personal injury, and product damage. A battery will short circuit if a metal object makes a connection between the positive and negative contacts on the battery pack. Do not place a battery near anything that may cause a short circuit (e.g., coins, keys, nails, or small metal objects in a pocket, toolbox, or drawer).
- Do not allow fluids to flow into battery.** Corrosive or conductive fluids, such as seawater, certain industrial chemicals, and bleach or bleach-containing products, etc., can cause a short circuit. Do not use battery packs that have been exposed to these types of fluids.
- To reduce the risk of injury, do not carry a machine by the battery handle.**
- Store your battery pack and charger in a cool, dry place.** Do not store where temperatures may exceed 50°C (120°F) such as in direct sunlight, a vehicle, or metal building during the summer.

# FUNCTIONAL DESCRIPTION



1. Cooling vents
2. Bay
3. Battery contacts
4. Cord
5. Cord holder
6. Handle
7. Charger light indicator:

-  Continuous red: Charging
-  Slow flashing green: Approaching full charge
-  Continuous green: Charging is complete
-  Slow flashing red: Battery charge is pending- Charging will begin momentarily.
-  Fast flashing red: Battery and/or charger is too hot/cold – Charging will begin when battery and or charger reach correct charging temperature.
-  Flashing red/green: Damaged or faulty battery pack and/or charger.

22. Always ship Li-Ion batteries in accordance with the current regulations governing the chosen mode of transport (e.g. ground, air, sea). When in doubt, contact MILWAUKEE®, the carrier or other trained Dangerous Goods professional to determine applicable regulations.
23. Maintain labels and nameplates. These carry important information. If unreadable or missing, contact a MILWAUKEE® service facility for a replacement.
24. Rechargeable batteries are to be removed from the appliance before being charged.
25. Exhausted batteries that have reached end-of-life are to be removed from the appliance and safely disposed of.
26. If the appliance is to be stored unused for a long period, the batteries should be removed. Disconnect and remove battery pack before storing.

## ADDITIONAL BATTERY SAFETY RULES

**⚠WARNING** To reduce the risk of fire, personal injury, and product damage due to a short circuit, never immerse your tool, battery pack or charger in fluid or allow a fluid to flow inside them. Corrosive or conductive fluids, such as seawater, certain industrial chemicals, and bleach or bleach-containing products, etc., can cause a short circuit.

**⚠WARNING** Do not charge non-rechargeable batteries.

## SPECIFICATIONS

Cat. No. .... MXF RC  
 Input Volts..... 100–240 V AC  
 Max Input Watts.....750 W  
 Output Volts.....72 V DC  
 Max Output Amps ..... 8 A DC  
 Recommended Ambient  
 Charging Temperature..... 5°C to 40°C  
 MX FUEL™ Li-Ion Battery Packs..... 72 V DC

Type	Rated voltage	Rated capacity	Cell type	Cell number
MXF CP203	72V	≤ 3.0 Ah	Li-ion	20
MXF XC406	72V	≤ 6.0 Ah	Li-ion	2 x 20
MXF XC608	72V	≤ 8.0 Ah	Li-ion	2 x 20
MXF HD812	72V	≤ 12.0 Ah	Li-ion	3 x 20

# SYMBOLOLOGY

	Volts
	Direct Current
	Alternating Current
	Double Insulated
	Hertz
	Amps
	Watts
	Read Operator's Manual
	
	For indoor use only
	Regulatory Compliance Mark (RCM). This product meets applicable regulatory requirements.
	Do not dispose of electric tools together with household waste material. Electric tools and electronic equipment that have reached the end of their life must be collected separately and returned to an environmentally compatible recycling facility. Check with your local authority or retailer for recycling advice and collection point.

## How to Charge the Battery Pack

Align the battery pack with the bay and slide the battery pack into the charger as far as possible. The red light will come on, either flashing quickly (battery pack or charger is too hot or cold), flashing slowly (communication between pack and charger) or continuous (pack is charging).

- A fully discharged battery pack with an internal temperature in the normal range will charge in about 45 to 100 minutes, depending on the battery pack and internal temperature of the charger.
- See COOL-CYCLE™ Fan section for fan function.
- Charge time depends on capacity of battery pack. Heavily cycled batteries may take longer to charge completely
- The fuel gauge lights are displayed as the pack is being charged, indicating how fully charged the pack is. The fuel gauge will turn off when charging is complete.
- After charging is complete, the continuous green light will come on.
- The charger will keep the battery pack fully charged if it is left on the charger. To indicate "Top-Off" charging, the light indicator will change from continuous green to continuous red.
- If the light indicator flashes red and green, or does not come on check that the battery pack is fully seated into the bay. Remove the battery pack and reinsert. If the problem persists, remove pack(s) and unplug charger for at least 2 minutes. After 2 minutes, plug charger back in and insert pack. If the problem continues, contact a MILWAUKEE® service facility.

## Charging a Hot or Cold Battery Pack

The fast red flashing indicator light on the charger indicates that the battery pack or charger temperature is outside the charging range. The charger has advanced electronics that adjust the charge rate based on battery temperature. Hot or cold batteries may take longer to charge. When the battery pack temperature is outside the normal charging range, the red light will flash and the battery will not charge. Once the battery pack is within the acceptable range, normal charging will take place and the red light will be continuous. This optimises charge time and battery life.

Battery Pack or Charger Temperature	Red Charger Indicator Light	Charging Status
Too Hot	Fast Flashing	Not charging
Normal Range	Continuous	Normal charging
Too Cold	Fast Flashing	Not charging

## COOL-CYCLE™ Fans

- The COOL-CYCLE™ charger is designed to cool the battery packs while charging.
- For best results, COOL-CYCLE™ capabilities are best paired with COOL-CYCLE™ capable battery packs.
- The COOL-CYCLE™ fan may not turn on or spin slower if the battery pack is cool.
- Some older battery packs may cause fan to run continuously. This is normal and will not damage the battery pack or charger.

# MX FUEL™ LI-ION CHARGERS

**⚠WARNING** Charge only MILWAUKEE® MX FUEL™ Li-Ion batteries in this MILWAUKEE® Li-Ion charger. Other types of batteries may cause personal injury and damage.

## When to Charge the Battery Pack with this MILWAUKEE® Charger

Remove the battery pack from the tool for charging when convenient. MILWAUKEE® batteries do not develop a "memory" when charged after only a partial discharge. It is not necessary to run down the battery pack before placing it on the charger.

- Use the fuel gauge to determine when to charge your MILWAUKEE® Li-Ion battery pack.
- The battery pack's charge can be "Top-Off" before starting a big job or long day of use.
- The only time it is necessary to charge the MILWAUKEE® Li-Ion battery pack is when the battery pack has reached the end of its charge. To signal the end of charge, power to the tool will drop quickly, allowing enough power to finish making a cut, drilling a hole, or driving a fastener. Charge the battery pack as needed.

- Once battery pack is inserted, the COOL-CYCLE™ fan will turn on and may continue cooling the battery pack after it is charged.
- If the light indicator double blinks red slowly (while no pack is inserted), the fan is damaged. The battery pack will not cool while charging, and will charge at a reduced rate. Contact a MILWAUKEE® service facility.

### **Powering the Charger with an Inverter or Generator**

The charger will operate with most 230 V generators and inverters rated at 800 Watts or higher.

### **Mounting to the Wall**

Use the wall mount guides to mark the hanging points.

## **MAINTENANCE**

**⚠WARNING** To reduce the risk of fire, personal injury, and product damage due to a short circuit, never immerse a machine, battery pack or charger in fluid or allow a fluid to flow inside them. Corrosive or conductive fluids, such as seawater, certain industrial chemicals, and bleach or bleach-containing products, etc., can cause a short circuit.

Always unplug the charger and remove the battery from the charger before performing any maintenance. Never disassemble the battery or charger. Contact a MILWAUKEE® service facility for ALL repairs.

### **Cleaning**

Do not expose battery packs, chargers or machine to fluids, water, or rain, or allow them to get wet. This could damage the machine, charger, and/or battery pack. Clean out dust and debris from machine, charger and battery vents and electrical contacts by vacuuming or brushing. Clean housings with a damp, soapy cloth, keeping away from all electrical contacts. Certain cleaners and solvents, such as gasoline, turpentine, lacquer thinner, paint thinner, bleach, chlorinated cleaning solvents, ammonia and household detergents containing ammonia, are harmful to plastics and other insulated parts; plastic casings will become brittle and crack. Never use flammable or combustible solvents around batteries, charger, or machines.

### **Storage**

As a general practice, it is best to unplug chargers and remove battery packs when not in use, however, no damage to the batteries will occur. Store at room temperature away from moisture. Store batteries upright. Do not store in damp locations where corrosion of terminals may occur. Storing in high temperatures (over 50°C) for long periods can result in permanent capacity loss for any battery. Charge before use after storing for long periods.

### **Repairs**

For repairs, return the tool, battery pack and charger to the nearest authorised service centre.





## **WARRANTY - AUSTRALIA and NEW ZEALAND**

Please refer to Australian and New Zealand warranty supplied with tool. This warranty applies only to product sold by authorised dealers in Australia and New Zealand.

## **SERVICE - AUSTRALIA and NEW ZEALAND**

**MILWAUKEE®** prides itself in producing a premium quality product that is Nothing But Heavy Duty™. Your satisfaction with our products is very important to us! If you encounter any problems with the operation of this tool, please contact your authorised **MILWAUKEE®** dealer.

For a list of **MILWAUKEE®** dealers, guarantee or service agents please contact **MILWAUKEE®** Customer Service or visit our website.

(Australia Toll Free Telephone Number 1300 645 928)

(New Zealand Toll Free Telephone Number 0800 645 928)

or visit [milwaukeetool.com.au/milwaukeetool.co.nz](http://milwaukeetool.com.au/milwaukeetool.co.nz).

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DESIGNED BY MILWAUKEE ELECTRIC TOOL CORP.