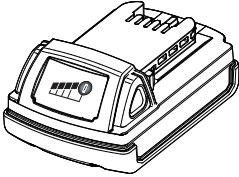


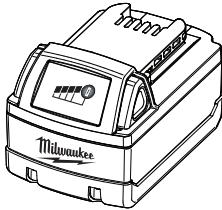


OPERATOR'S MANUAL

Cat. No.
M18B
M18B2



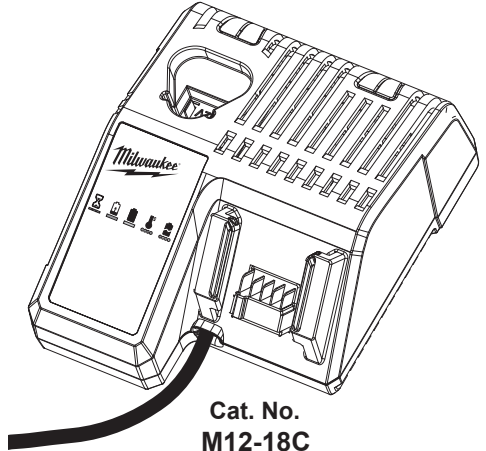
Cat. No.
M18BX
M18B4
M18B5



Cat. No.
M12B
M12B2



Cat. No.
M12BX
M12B4



Cat. No.
M12-18C

New batteries must be charged before first use.

M12™ / M18™ MULTI VOLTAGE CHARGER
M12™ AND M18™ Li-ION BATTERY PACKS

TO REDUCE THE RISK OF INJURY, USER MUST READ AND UNDERSTAND OPERATOR'S MANUAL.

IMPORTANT SAFETY 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

1. **SAVE THESE INSTRUCTIONS - THIS MANUAL CONTAINS IMPORTANT SAFETY AND OPERATING INSTRUCTIONS FOR THE MILWAUKEE® LITHIUM-ION COMBO CHARGER CAT. NO. M12-18C AND MILWAUKEE® 12 V AND 18 V LI-ION BATTERIES.**

2. **BEFORE USING THE BATTERIES AND CHARGER, READ ALL INSTRUCTIONS AND CAUTIONARY MARKINGS ON BATTERY CHARGER, BATTERY, AND TOOL.**

3. **CAUTION! TO REDUCE THE RISK OF INJURY, CHARGE MILWAUKEE® 12 AND 18 V LITHIUM-ION BATTERIES ONLY IN MILWAUKEE® 12 AND 18 V LITHIUM-ION CHARGERS.** Other types of batteries may burst causing personal injury and damage. Do not wire a battery pack to a power supply plug or car cigarette lighter. Batteries will be permanently disabled or damaged.

4. This appliance is not intended to be used or cleaned by persons with reduced physical, sensory or mental capabilities, or lack of experience or knowledge, unless they have been given instructions concerning the safe use of the appliance by a person legally responsible for their safety. They should be supervised whilst using the appliance. Children shall not use, clean or play with this appliance, which when not in use should be secured out of their reach

5. **USE MILWAUKEE® LITHIUM-ION PACKS ONLY ON COMPATIBLE MILWAUKEE® LITHIUM-ION TOOLS.** Battery pack and charger are not compatible with V™-technology or NiCd systems. Use with other tools may result in a risk of fire, electric shock or personal injury.

6. **AVOID DANGEROUS ENVIRONMENTS.** Do not charge battery pack in rain, snow, damp or wet locations. Do not use battery pack or charger in the presence of explosive atmospheres (gaseous fumes, dust or flammable materials) because sparks may be generated when inserting or removing battery pack, possibly causing fire.

7. **CHARGE IN A WELL VENTILATED AREA.** Do not block charger vents. Keep them clear to allow proper ventilation. Do not allow smoking or open flames near a charging battery pack. Vented gases may explode.

8. **MAINTAIN CHARGER CORD.** When unplugging charger, pull plug rather than cord to reduce the risk of damage to the electrical plug and cord. Never carry charger by its cord. Keep cord from heat, oil and sharp edges. Make sure cord will not be stepped on, tripped over or subjected to damage or stress. Do not use charger with damaged or stress. Do not use charger with damaged cord or plug. Have a damaged cord replaced immediately with identical replacement parts (see "Maintenance").

9. **DO NOT USE AN EXTENSION CORD UNLESS IT IS ABSOLUTELY NECESSARY.** Using the wrong,

damaged or improperly wired extension cord could result in the risk of fire and electrical shock. If an extension cord must be used, plug the charger into a properly wired 16 gauge or larger extension cord with pins that are the same number, size and shape as the pins on the charger. Make sure that the extension cord is in good electrical condition.

10. **CHARGER IS RATED FOR 220 - 240 V AC ONLY.** Charger must be plugged into an appropriate receptacle.

11. **USE ONLY RECOMMENDED ATTACHMENTS.** Use of an attachment not recommended or sold by the battery charger or battery pack manufacturer may result in a risk of fire, electric shock or personal injury.

12. **UNPLUG CHARGER** when not in use. Remove battery pack from unplugged chargers.

13. **TO REDUCE THE RISK OF ELECTRIC SHOCK,** always unplug charger before cleaning or maintenance. Do not allow water to flow into AC/DC plug. Use a Ground Fault Circuit Interrupter (GFCI) to reduce shock hazards.

14. **DO NOT BURN OR INCINERATE BATTERIES.** Batteries may explode, causing personal injury or damage. Toxic fumes and materials are created when batteries are burned.

15. **DO NOT CRUSH, DROP, OR DAMAGE** batteries. Do not use a battery pack or charger 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).

16. **DO NOT DISASSEMBLE.** Incorrect reassembly may result in the risk of electric shock, fire or exposure to battery chemicals. If it is damaged, take it to the store where the product was originally purchased or one of our authorised MILWAUKEE® service centres.

17. **BATTERY CHEMICALS CAUSE SERIOUS BURNS.** Never allow contact with skin, eyes, or mouth. If a damaged battery pack 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. Remove and dispose of contaminated clothing.

18. **DO NOT SHORT CIRCUIT.** A battery pack 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 pack near anything that may cause a short circuit, such as coins, keys or nails in your pocket. A short circuited battery pack may cause fire and personal injury.

19. **STORE YOUR BATTERY PACK AND CHARGER** in a cool, dry place. Do not store battery pack where temperatures may exceed 50°C (120°F) such as in direct sunlight, a vehicle or metal building during the summer.

20. Do not try to charge non-rechargeable batteries.

READ AND SAVE ALL INSTRUCTIONS FOR FUTURE REFERENCE.

SYMBOLGY

	Safety alert
	Volts
	Direct Current
	Alternating Current
	Class II equipment
	Hertz
	Amps
	Indoor use
	Please read the instructions carefully before starting the machine.
	Time-lag fuse 3.15A
	Regulatory Compliance Mark (RCM). Product meets applicable regulatory requirements.
	Do not dispose of electric tools together with household waste material! In observance of European Directive 2002/96/EC on waste electrical and electronic equipment and its implementation in accordance with national law, electric tools that have reached the end of their life must be collected separately and returned to an environmentally compatible recycling facility.

FUNCTIONAL DESCRIPTION

- Contacts
- Release buttons
- Fuel Gauge button
- Fuel Gauge
- Electrical contacts
- Bay
- Vents
- Light indicators:

- Continuous red: Charging
- Continuous green light: Charging is complete
- Fast flashing red: Battery is too hot/cold - Charging will begin when battery reaches correct charging temperature
- Slow flashing red: Battery charge is pending - Charging will begin when the first pack is fully charged.
- Flashing red/green: Damaged or faulty battery pack

SPECIFICATIONS

Charger Cat. No.	AC Input Volts	AC Input Amps	DC Output Volts	DC Output Amps
M12-18C	220-240	2.1	12 or 18V	3

Type	Rated voltage	Rated capacity	Cell type	Cell number
M18B	18V	≤1.5 Ah	Li-ion	5
M18B2	18V	≤2.0 Ah	Li-ion	5
M18BX	18V	≤3.0 Ah	Li-ion	2 x 5
M18B4	18V	≤4.0 Ah	Li-ion	2 x 5
M18B5	18V	≤5.0 Ah	Li-ion	2 x 5

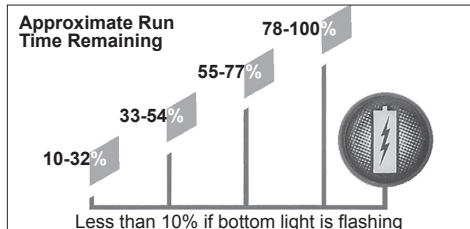
Type	Rated voltage	Rated capacity	Cell type	Cell number
M12B	12V	≤1.5 Ah	Li-ion	3
M12B2	12V	≤2.0 Ah	Li-ion	3
M12BX	12V	≤3.0 Ah	Li-ion	2 x 3
M12B4	12V	≤4.0 Ah	Li-ion	2 x 3

MILWAUKEE® LITHIUM-ION BATTERY PACKS

18 V

Fuel Gauge

Use the Fuel Gauge to determine the battery pack's remaining run time. Press the Fuel Gauge button to display the lights. The Fuel Gauge will light up for 2-3 seconds. When less than 10% of charge is left, 1 light on the fuel gauge will flash slowly.



NOTE: If the Fuel Gauge doesn't appear to be working, place the battery pack on the charger and charge as needed.


Compared to NiCd battery pack types, MILWAUKEE® Lithium-ion battery packs deliver fade-free power for their entire run time. The tool will not experience a slow, gradual loss of power as you work. To signal the end of discharge, 1 light on the fuel gauge will flash quickly for 2-3 seconds and the tool will not run. Charge the battery pack.

NOTE: Immediately after using the battery pack, the Fuel Gauge may display a lower charge than it will if checked a few minutes later. The battery cells "recover" some of their charge after resting.

Battery Pack Protection

To protect itself from damage and extend its life, the battery pack's intelligent circuit monitors current draw and temperature. In extremely high torque, binding, stalling, and short circuit situations, the battery pack will turn OFF the tool if the current draw becomes too high. All the fuel gauge lights will flash. Release the trigger and restart.

Under extreme circumstances, the internal temperature of the battery could become too high. If this happens, the fuel gauge lights will flash in an alternating pattern and the tool will not run. Allow the battery to cool down.

 Fuel Gauge Lights	Diagnosis	Solution
Lights 1 - 4 Solid	Remaining run time	Continue working
1 Light, flashing slowly	Less than 10% run time left	Prepare to charge pack
1 Light, flashing quickly	End of discharge	Charge pack
Lights 1-4, flashing quickly	Current draw too high	Release trigger and restart, reduce pressure
Lights 1&3 / 2&4, flashing alternately	Battery temperature too high	Release trigger and allow battery to cool

Cold Weather Operation

MILWAUKEE® Lithium-ion battery packs are designed to operate in temperatures below freezing. When the battery pack is too cold, it may need to warm up before normal use. Put the battery on a tool and use the tool in a light application. It may "buzz" for a short time until it warms up. When the buzzing stops, use the tool normally.

12V AND 18 V

Maintenance and Storage

Do not expose your battery pack or cordless tools to water or rain, or allow them to get wet. This could damage the tool and battery pack. Do not use oil or solvents to clean or lubricate your battery pack. The plastic casing will become brittle and crack, causing a risk of injury.

Store battery packs at room temperature away from moisture. Do not store in damp locations where corrosion of terminals may occur. As with other battery pack types, permanent capacity loss can result if the pack is stored for long periods of time at high temperatures 50°C (120°F). MILWAUKEE® Lithium-ion battery packs maintain their charge during storage longer than other battery pack types. After about a year of storage, charge the pack as normal.

WARNING To reduce the risk of injury or explosion, never burn or incinerate a battery pack even if it is damaged, dead or completely discharged. When burned, toxic fumes and materials are created.

Disposing of MILWAUKEE® Li-Ion Battery Packs

MILWAUKEE® Lithium-ion battery packs are more environmentally friendly than some other types of power tool battery packs (e.g., nickel-cadmium). Always dispose of your battery pack according to federal, state and local regulations. Contact a recycling agency in your area for recycling locations. Even discharged battery packs contain some energy. Before disposing, use electrical tape to cover the terminals to prevent the battery pack from shorting, which could cause a fire or explosion.

MILWAUKEE® LITHIUM-ION COMBO CHARGER

WARNING Charge only **MILWAUKEE®** 12V and 18 V Li-Ion batteries in the **MILWAUKEE®12** and 18 V Li-Ion Combo 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 for you and your job. **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 (on the battery pack or tool) to determine when to charge your **MILWAUKEE®** Li-Ion battery pack.
- You can "Top-Off" your battery pack's charge before starting a big job or long day of use.
- The only time it is necessary to charge the **MILWAUKEE®** Lithium-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 you just enough power to finish making a cut, drilling a hole, or driving a fastener. Charge the battery pack as needed.

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 is too hot or cold), flashing slowly (battery pack is waiting for another pack to finish charging) or continuous (pack is charging).

- A fully discharged battery pack with an internal temperature in the normal range will charge in 30 to 75 minutes, depending on the battery pack.
- Heavily cycled batteries may take longer to charge completely.
- The Fuel Gauge lights on 18V battery packs 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.
- The second pack inserted in the charger will begin charging when the first pack inserted is fully charged.
- If the light indicator flashes red and green, check that the battery pack is fully seated into the bay. Remove the battery pack and reinsert. If the light continues to flash red and green, the battery pack may be extremely hot or cold, or wet. Allow the battery pack to cool down, warm up, or dry out and then reinsert. If the problem persists, return the battery to the store where the product was originally purchased or one of our authorised **MILWAUKEE®** service centres.

- If the light indicator does not come on, check that the battery pack is fully seated into the bay. Remove the battery pack and reinsert. If the light indicator still does not come on, remove pack(s) and unplug charger for at least 2 minutes. After 2 minutes, plug charger back in and insert pack. If after these attempts the light indicator still does not come on, return the battery to the store where the product was originally purchased or one of our authorised **MILWAUKEE®** service centres.

Charging a Hot or Cold Battery Pack

The Red Flashing Indicator light on the charger indicates that the battery pack temperature is outside the charging range. Once the battery pack is within the acceptable range, normal charging will take place and the red light will be continuous. Hot or cold batteries may take longer to charge.

Li-Ion Charging Status

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

Powering the Charger with an Inverter or Generator

The charger will operate with most generators and inverters rated at 300 Watts or higher.

Maintenance and Storage

Store your charger in a cool, dry place.

As a general practice, it is best to unplug battery chargers and remove batteries when not in use. No battery pack damage will occur, however, if the charger and battery pack are left plugged in.

WARNING To reduce the risk of injury, always unplug the charger and remove the battery from the charger before performing any maintenance. Never disassemble the battery or charger. Contact the store where the product was originally purchased or one of our authorised **MILWAUKEE®** service centres. To reduce the risk of injury and damage, never immerse your battery or charger in liquid or allow a liquid to flow inside them.

Cleaning

Clean out dust and debris from charger vents and electrical contacts by blowing with compressed air. Use only mild soap and a damp cloth to clean the battery pack and charger, keeping away from all electrical contacts. Certain cleaning agents and solvents are harmful to plastics and other insulated parts. Some of these include gasoline, turpentine, lacquer thinner, paint thinner, chlorinated cleaning solvents, ammonia and household detergents containing ammonia. Never use flammable or combustible solvents around batteries, charger, or tools.

Repairs

The charger has no serviceable parts.

WARRANTY - AUSTRALIA and NEW ZEALAND

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

AUSTRALIA AND NEW ZEALAND MILWAUKEE® Service

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 361 505)

(New Zealand Toll Free Telephone Number 0800 279 624) or visit www.milwaukeetools.com.au / www.milwaukeetools.co.nz.

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Milwaukee Electric Tool Corporation (New Zealand)

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Mangere, Auckland, New Zealand, 2022

Professionally made in China for Milwaukee Electric Tool Corporation

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