



USB RECHARGEABLE HARD HAT HEADLAMP

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 REDLITHIUM® USB BATTERY CAT. NO. 48-11-2130 AND USB RECHARGEABLE LIGHT.
2. **USE AND CHARGE ONLY REDLITHIUM® USB BATTERIES IN THIS USB RECHARGEABLE LIGHT. OTHER TYPES OF BATTERIES MAY CAUSE PERSONAL INJURY AND DAMAGE.**
3. **BEFORE USING THE BATTERY AND LIGHT, READ THIS OPERATOR'S MANUAL AND ALL LABELS ON THE BATTERY AND LIGHT.**
4. **USE ONLY WITH LISTED/CERTIFIED ITE POWER SUPPLY.** Others may result in a risk of fire, electric shock or personal injury.
5. **AVOID DANGEROUS ENVIRONMENTS.** Do not charge battery 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) because sparks may be generated when inserting or removing battery, possibly causing fire.
6. **CHARGE IN A WELL VENTILATED AREA.** Do not block charger vents. Keep them clear to allow proper ventilation. Do not allow smoking or open flame near a charging battery. Vented gases may explode.
7. **MAINTAIN 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 cord or plug. Have a damaged charger replaced immediately.
8. **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.
9. **TO REDUCE THE RISK OF ELECTRIC SHOCK,** always unplug charger before cleaning or maintenance.
10. **DO NOT BURN OR INCINERATE BATTERY PACKS.** Battery may explode, causing personal injury or damage. Toxic fumes and materials are created when battery are burned.
11. **DO NOT CRUSH, DROP, OR DAMAGE** battery. Do not use a battery 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).
12. **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 a MILWAUKEE service facility.
13. **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. Remove and dispose of contaminated clothing.
14. **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. Do not allow fluids to flow into battery pack. Corrosive or conductive fluids, such as seawater, certain industrial chemicals, and bleach or bleach containing products, etc., can cause a short circuit. A short circuited battery pack may cause fire, personal injury, and product damage.
15. **STORE** in a cool, dry place. Do not store battery where temperatures may exceed 120°F (50°C) such as in direct sunlight, a vehicle or metal building during the summer.
16. **TO REDUCE THE RISK OF INJURY, CLOSE SUPERVISION IS NECESSARY** when an appliance is used near children.
17. **STORE IDLE LIGHT OUT OF REACH OF CHILDREN.** Warm lights can become hazardous in the hands of children.
18. **KNOW YOUR LIGHT.** Read this manual carefully to learn your light's applications and limitations as well as potential hazards associated with this type of light.
19. **MAINTAIN LABELS AND NAMEPLATES.** These carry important information. If unreadable or missing, contact a MILWAUKEE service facility for a free replacement.

INSTRUCTIONS FOR FUTURE REFERENCE.

SPECIFICATIONS

Cat. No.	2111-20
USB Input Volts	5 DC
USB Input Amps	0.1 - 2.1 A
Output Volts	4 DC
Output Amps	2.1A
Battery Cat. No.	48-11-2130
Volts	4 DC
Operating Temperature	
Battery and Charger	40°F to 104°F (4°C to 40°C)
Battery and Tool	0°F to 149°F (-18°C to 65°C)
Power Supply Cat. No.	44-66-1202

SYMBOLOLOGY

	Volts		Read Operator's Manual
	Direct Current		Properly Recycle Batteries
	Amps		BFP Backfeed Protected
	Do not stare into light		BC California Energy Commission

BATTERY

⚠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.

Maintenance and Storage

Do not expose your battery or cordless tools to water or rain, or allow them to get wet. This could damage the tool and battery. Do not use oil or solvents to clean or lubricate your battery. The plastic casing will become brittle and crack, causing a risk of injury. Store batteries at room temperature away from moisture. Do not store in damp locations where corrosion of terminals may occur. As with other battery types, permanent capacity loss can result if the pack is stored for long periods of time at high temperatures (over 120° F). MILWAUKEE Li-Ion batteries maintain their charge during storage longer than other battery types. After about a year of storage, charge the battery 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

MILWAUKEE Li-Ion batteries are more environmentally friendly than some other types of power tool batteries. Always dispose of your battery according to federal, state and local regulations. Contact a recycling agency in your area for recycling locations. Even discharged batteries contain some energy. Before disposing, use electrical tape to cover the terminals to prevent the battery from shorting, which could cause a fire or explosion.

RBRC Battery Recycling Seals

The RBRC™ Battery Recycling Seals (see "Symbolology") on your batteries indicate that MILWAUKEE has arranged for the recycling of that battery with the Rechargeable Battery Recycling Corporation (RBRC).

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⚠WARNING Use and charge only REDLITHIUM® USB batteries in this USB rechargeable light. Other types of batteries may cause personal injury and damage.

Inserting the Battery

1. Open the battery door.
2. Line up the battery with the compartment and fully insert the battery.
3. Close the battery door.

Charging the Battery

1. Plug your USB cable into a power source such as an AC wall adaptor, computer or car port.
2. Lift the rubber cover to expose the micro USB port. Insert the micro USB plug into the micro USB port.
3. The indicator light will display the charging status:
 - Red Flashing: Charging, 0-25% charged
 - Orange Flashing: Charging, 25-80% charged
 - Green Flashing: Charging, 80-99% charged
 - Green Solid: 99-100% Charged
 - Red/Green Flashing: Damaged or Faulty Battery

If the light indicator flashes red and green, check that the battery is fully seated into the bay. Remove the battery and reinsert. If the light continues to flash red and green, the battery may be extremely hot or cold, or wet. Allow the battery to cool down, warm up, or dry out and then reinsert. If the problem persists, contact a MILWAUKEE service facility.

Operation

⚠WARNING To reduce the risk of injury, do not look directly into the light when the light is on.

Clip the light onto the strap and use the buckle to adjust the strap to the required size. Use the included clips to attach to a hard hat. Rotate the light up or down as needed. Press the power button to turn the light on and off. Press the mode button to cycle through Spot/Flood, Flood High, Flood Medium, Flood Low, and Spot.

The fuel gauge will display the battery life:

- Red Flashing: 0-10% remaining
- Red Solid: 10-25% remaining
- Orange Solid: 25-80% remaining
- Green Solid: 80-100% remaining

⚠WARNING To reduce the risk of injury, always unplug the charger and remove the battery from the charger before performing any maintenance. The charger and battery have no internal serviceable parts. Never disassemble the battery or charger.

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 damage will occur, however, if the charger and battery are left plugged in.

⚠WARNING 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 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.