



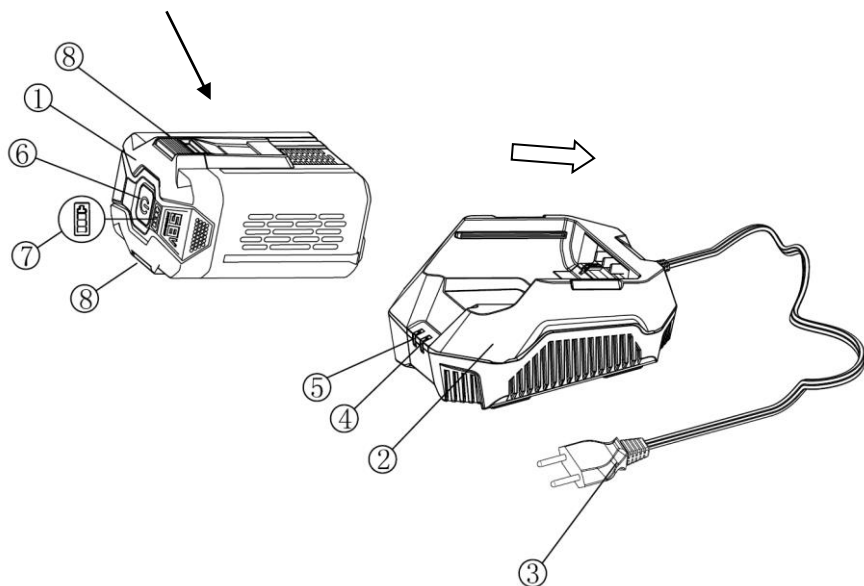
OPERATOR'S MANUAL **BATTERY CHARGER**

Type: ZMLC5120



Jono & Johno, 31 Carngham Road, Delacombe, Vic, 3356

Please read the operator's manual carefully and make sure you understand the instructions before using the machine.



1. Battery

2. Charger

3. Plug^①

4. Red LED

5. Green LED

6. Battery power display button









7. Battery power indicator

8. Release button

^① Plug type in the illustration is only for customer reference. Please refer to products sold locally as standard.

SAVE THESE INSTRUCTIONS

Key to symbols

| | |
|---|---|
| WARNING! Incorrect or careless use of a charger can turn it into a dangerous tool that can cause serious or even fatal injury. It is extremely important that you read and understand the contents of the operator's manual. |  |
| Please read the operator's manual carefully and make sure you understand the instructions before using the machine. |  |
| Symbols on the product or its packaging indicate that this product cannot be handled as domestic waste. This product must be deposited at an appropriate recycling facility. |  |
| Do not leave or store the battery charger outdoors in the rain or in wet conditions. |  |
| Use and store battery charger only indoors. |  |
| Please read the instructions for maintenance of the charger. |  |
| The appliance meets the requirement of double insulation according to safety standards |  |
| This product is in accordance with applicable EC directives. |  |

Battery pack and battery charger


This section describes the battery and battery charger safety for your battery product.

①②③④⑤⑥⑦⑧to refer to the figure on page 2.

Only use original battery pack for products and only charge them in an original battery ZMLC51 charger. The battery pack are software encrypted. Other types of batteries may burst causing personal injury and damage.


IMPORTANT SAFETY INSTRUCTIONS

The battery chargers are only used for charging of rechargeable battery pack.



WARNING! Minimise the risk of electric shock or short circuit as follows:

Do not try to dismantle the battery charger. Never connect the charger terminals to metal objects as this can short circuit the battery charger. Use approved and intact wall sockets.

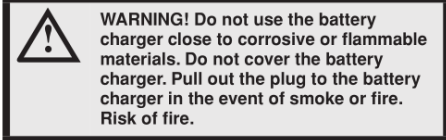
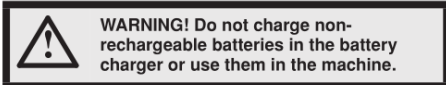


WARNING! This machine produces an electromagnetic field during operation. This field may under some circumstances interfere with active or passive medical implants. To reduce the risk of serious or fatal injury, we recommend persons with medical implants to consult their physician and the medical implant manufacturer before operating this machine. Do not use product when a thunderstorm is approaching.

- Inspect the product for damage before use.
- Regularly check that the battery charger connection wire is intact and that there are no cracks in it.
- Never carry the battery charger using the cord and never pull out the plug by pulling the cord.
- Keep all cables and extension leads away from water, oil and sharp edges. Make sure the cable is not jammed in doors, fences or the like. Otherwise it can cause the charger to become live.
- Never clean the battery or the battery charger with water.
- The 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.

BATTERY CHARGER

- 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.
- When charging, the charger must be placed in a well-ventilated area and under a roof to keep out moisture. Use and store battery charger only indoors.
- Don't let your children play with the charger. There is a risk of suffocation on small parts of the battery charger is swallowed.
- Don't use the charger while being under influence of medicine, drugs, alcohol, or while being exhausted, tired or ill.



- Use the battery charger only when the surrounding temperature is between 5 °C and 50°C. Use the charger in an environment which is well ventilated, dry and free from dust

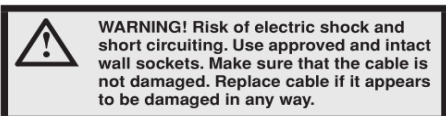
Do not use:

- a faulty or damaged battery charger
- The battery in the battery charger outdoors.

Do not charge:

- Or never use a faulty, damaged or deformed battery.
- The battery in the rain or in wet conditions.
- The battery in direct sunlight.

Operation



Connect the battery charger

- Use or store the battery charger in such way so that the risk of stumbling on the cable does not occur.
- Connect the battery charger to the voltage and frequency specified on the rating plate.

- Use provided cable with specific coil
- Always use residual current device (RCD) when using battery charger.

Connect the battery to the battery charger.

The battery must be charged before using it the first time.

The battery is only 30% charged when delivered.

NOTE!

- During charging monitor the charging process.
- Connect the battery to the battery charger. ① ②
- The green charging light on the charger is lit when the battery is connected to the battery charger. The battery will not be charged if the battery temperature is over 50°C ④
- When all LEDs are lit, the battery is fully charged. ⑦
- When the battery is fully charged, the battery charger will stop charging (switch to stand by). There are no restrictions on how long a battery can remain in the charger. Recommended is to remove the battery from the battery charger when the battery is fully charged.
- Pull out the plug. Never jerk the power supply cable to disconnect it from the wall socket. ③
- After using the battery over hundreds cycles, your battery maybe unbalance. To protect itself, the battery will start self-balance mode when charged over 57.4V. During this period, the charger green LED will flash at 0.5 Hz at half speed of normal flashing frequency. Do not interrupt, wait till the battery get fully charged, this will effectively prolong the battery life.
- Low voltage charging: If the battery pack has been stored with little to no charge for a long period of time, the charger will go into recovery mode, which will take 20 hrs to fully charge the battery. This will enhance the life of the battery. Once it is fully charged, the next charge will return to standard charging.

Transport and storage

- The Charger and the battery must be secured during transport.
- Store the equipment in a lockable area so that it is out of reach of children and unauthorized persons.

BATTERY CHARGER

- Store the battery and the battery charger in a dry, moisture-free and frost-free space.
- Store the battery charger where the temperature is between 0°C and 45°C and never indirect sunlight.
- Store the battery charger only in an enclosed and dry space.
- Be sure to store the battery separate from the battery charger.
- **Caution:** If long-term storage is necessary, **DO NOT STORE A BATTERY PACK WHICH IS COMPLETELY DISCHARGED.** If the pack completely discharged, please charge the battery pack until LED 1, LED 2 are lit firstly. In the later process, it's required to charge the battery pack until LED 1, LED 2 are lit each time for every one or two months. This is helpful for prolonging battery shelf life.

Maintenance




Make sure the battery and battery charger are clean and the terminals on the battery and the battery charger are always clean and dry before the battery is connected in the battery charger. Keep the battery guide tracks clean. Clean plastic part with a clean and dry cloth.

Fault codes


Troubleshooting the battery and/or the battery charger

During charging. ⑤, ⑥

If the LED on the battery charger is lit solid red, the Battery charger requires a service. ⑤

| MODE | | BATTERY PACK STATUS | GREEN LED | RED LED | CHARGER STATUS | TO BE OPERATED BY THE END USER |
|--|---------------|---|------------------------|----------|--|---|
|  | Charging | Charging | Rapidly Flashing (1Hz) | Off | Normal charging | No further action until the battery pack was fully charged |
| | | Balance | Slow Flashing (0.5Hz) | Off | Charging under self-balance mode | No further action until the charging mode was changed to normal charging |
|  | Fully charged | Battery full | On | Off | End of charging | Disconnect the battery pack from the charger |
|  | Evaluate | The battery pack surface is warm | Flashing | Flashing | The ambient temperature is too high and the battery charger stops charging | Move the battery pack and battery charger to a cooler ambient. The charger will continue to charge when the battery pack is cooled down. |
| | | The battery pack surface is cold | | | The ambient temperature is too low and the battery charger stops charging | Move the battery pack and battery charger to a warmer ambient. The charger will continue to charge when the battery pack is warmed up. |
| | | The battery pack surface is extremely hot | | | DANGER! The battery charger is charging a damaged battery pack. | Pull out the plug of the charger immediately and then move the battery pack and battery charger outside the room. Contact the after-sale service for further instruction. |

BATTERY CHARGER

| MODE | | BATTERY PACK STATUS | GREEN LED | RED LED | CHARGER STATUS | TO BE OPERATED BY THE END USER |
|--|-----------|-----------------------------------|-----------|---------|--------------------------------------|---|
|  | Defective | The battery pack may be defective | Off | On | The battery charger may be defective | <p>Try to repeat the conditions a second time by removing and reinstalling the battery pack. If the LED status repeats a second time, try charging a different battery.</p> <p>If a different battery charges normally, dispose of the defective pack (see battery pack operator's manual).</p> <p>If a different battery also indicates "Defective", the charger may be defective.</p> |

Disposal of the battery, battery charger and machine

Symbols on the product or its packaging indicate that this product cannot be handled as domestic waste. It must instead be submitted to an appropriate recycling station for the recovery of electrical and electronic equipment.

By ensuring that this product is taken care of correctly, you can help to counteract the potential negative impact on the environment and people that can otherwise result through the incorrect waste management of this product. For more detailed information about recycling this product, contact your municipality, your domestic waste service or the shop from where you purchased the product.

Technical data

| | |
|------------------|-----------|
| Battery charger | ZMLC5120E |
| Mains Voltage, V | 220~240 |
| Frequency, Hz | 50 |
| input-current, A | 1 |
| Fuse, A | 3.15 |

| Battery | Cell (pcs) | Ah | charging period(min) | |
|----------|------------|-----|----------------------|------|
| | | | 80% | 100% |
| ZMLB5120 | 14 | 2 | 48 | 60 |
| ZMLB5125 | 14 | 2.5 | 60 | 75 |
| ZMLB5140 | 28 | 4 | 96 | 120 |
| ZMLB5150 | 28 | 5 | 120 | 150 |