ToolkitRC M8S Multi-Purpose Charger Instruction Manual

M8S Multi-Purpose Charger
Instruction Manual

Contents

Safety Instructions

M8S Multi-Purpose Charger
Item no: 2377698

Intended use

The product is a battery charger. Use the product to charge batteries of the following type:

- LiPo (1-8S) / LiHV (1-8S) / LiFe (1-8S) / Li-ion (1-8S) / NiMH (1-20S) / Pb (1-12S)

The product is intended for indoor use only. Do not use it outdoors.
Contact with moisture must be avoided under all circumstances.
If you use the product for purposes other than those described, the product may be damaged.
Improper use can result in short circuits, fires, or other hazards.
The product complies with the statutory national and European requirements.
For safety and approval purposes, you must not rebuild and/or modify the product.
Read the safety instructions and any accompanying instructions carefully and store them in a safe place. Make this product available to third parties only together with the safety
instructions and any accompanying instructions.

Latest product information

Download the latest product information at **www.conrad.com/downloads** or scan the QR code shown. Follow the instructions on the website.

Description of symbols

 The symbol with the exclamation mark in the triangle is used to indicate important information in this document. Always read this information carefully.

 Read the operating instructions carefully.

 This product must only be used in dry, enclosed indoor areas. It must not become damp or wet.

Safety instructions

 Read this document and the accompanying operating instructions carefully and especially observe the safety information. If you do not follow the safety instructions and information on proper handling, we assume no liability for any resulting personal injury or damage to property. Such cases will invalidate the warranty/guarantee.

4.1 General

- The product is not a toy. Keep it out of the reach of children and pets.
- Do not leave packaging material lying around carelessly. This may become dangerous playing material for children.
- If you have questions that remain unanswered by this information product, contact our technical support service or other technical personnel.
- Maintenance, modifications, and repairs must only be completed by a technician or an authorized repair center.

4.2 Personal safety

- Do not wear metal jewelry. Metal jewelry can short-circuit charger or battery contacts and cause skin burns, fire, or explosion.

4.3 Battery safety – LiPo/Li-ion/LiHv/LiFe/Pb

- Keep batteries away from children. Batteries are not toys.

- Rechargeable batteries must not become wet or damp.
- The outer shell of LiPo rechargeable batteries normally consists only of a very thick film and is extremely sensitive.

4.3.1 Preventing fire and explosion

- Do not short-circuit rechargeable batteries to prevent fire and explosion.
- Keep rechargeable batteries away from fire. Do not throw rechargeable batteries into fire. Fire can cause rechargeable batteries to explode.
- Keep rechargeable batteries in their original state. Modifying or disassembling can cause rechargeable batteries to catch fire or explode.
- Never destroy or damage the rechargeable battery, do not drop it or puncture it with any objects. Protect the rechargeable battery from mechanical stresses and do not pull on its connection cables! This may cause a fire or explosion!
- Make sure that the rechargeable battery does not overheat during use, charging, discharging, transport and storage. Do not place the rechargeable battery near heat
  sources (e.g. model control, motor), and protect it from direct sunlight. This may cause the battery to overheat, which can cause a fire or explosion!
- Place the rechargeable battery on a non-flammable, heat-resistant surface (for example stone tiles) while charging/discharging.
- Stop using the rechargeable battery if it is damaged (for example after a crash) or if its outer shell is bloated/swollen. Do not recharge it. This may cause a fire or explosion!
- Use only a suitable charger/discharger to charge/discharge lithium rechargeable batteries and observe the correct charging method. Do not use conventional chargers/dischargers for lithium rechargeable batteries in order to avoid fire and explosion hazards!

4.3.2 Charging and discharging

- Always follow the manufacturer’s instructions of the rechargeable battery.
- The discharge current must not exceed the value printed on the rechargeable battery.
- Charge LiPo rechargeable batteries with a charging current of max. 1 C (unless otherwise stated by the battery manufacturer!).
- When charging lithium rechargeable batteries with more than one cell, use a “balancer”.
- Do not charge/discharge rechargeable batteries directly in the model. First, remove rechargeable batteries from the model.
- The temperature of the rechargeable battery must not exceed +60 °C (also note all other manufacturer information!).

4.3.3 Leaking batteries

- Rechargeable batteries can leak when they are abused, damaged, not used as intended, or old. Battery liquid of rechargeable batteries can cause skin and eye irritation, and
  damage objects and surfaces. Observe the following when you handle leaking rechargeable batteries:
- Use protective gloves and eye protection.

- If contact with the skin occurs, rinse affected areas with plenty of lukewarm water. Visit a doctor in case of skin irritation.
- If contact with the eyes occurs, rinse the eyes with plenty of lukewarm water and visit a doctor.

4.3.4 Storage

- Store rechargeable batteries in suitable storage containers in a cool and dry environment. Proper storage of rechargeable batteries reduces hazards.

4.4 Operating environment

- Do not place the product under any mechanical stress.
- Protect the appliance from extreme temperatures, strong jolts, flammable gases, steam, and solvents.
- Protect the product from high humidity and moisture.
- Protect the product from direct sunlight.
- Do not switch the product on after it has been taken from a cold to a warm environment. The condensation that forms might destroy the product. Allow the product to reach room temperature before you use it.
- Only use the product in temperate climates. Tropical climates increase the risk of electric shock.

4.5 Work area safety

- Secure the work area to keep children out. Children are unable to fully understand the risks involved with battery chargers.
- Keep the work area clean. Dust and dirt increase the risk of electric shock.
- Keep the work area dry. Water and high humidity increase the risk of electric shock.
- Do not operate the charger in explosive atmospheres where flammable liquids, gases or dust are present. Sparks can ignite fumes or dust.
- Keep the work area free of combustible/inflammable materials such as paper or curtains. Place the charger on a heat-resistant surface. The heat produced by the charger can ignite combustible or inflammable materials.
- Do not place any containers filled with liquid (for example: vases or plants) on or next to the charger. There is a high risk of electric shock when liquid enters the charger. If liquid enters the charger, disconnect the power supply and do not use the charger again.

4.6 Operation

- Consult an expert when in doubt about the operation, safety or connection of the appliance.
- If it is no longer possible to operate the product safely, take it out of operation and protect it from any accidental use. DO NOT attempt to repair the product yourself. Safe operation can no longer be guaranteed if the product:
- is visibly damaged,
- is no longer working properly,
- has been stored for extended periods in poor ambient conditions or
- has been subjected to any serious transport-related stresses.

4.6.1 Before charging

- Do not charge non-rechargeable batteries. There is a risk that non-rechargeable batteries catch fire or explode when they are charged.
- Only charge rechargeable batteries supported by the charger. Ensure the charger is designed to charge the rechargeable battery before you connect it.
- Do not charge damaged rechargeable batteries. Charging damaged rechargeable batteries increases the risk of fire and explosion.
- Charge rechargeable batteries after they have reached room temperature. Hot rechargeable batteries are not safe to be charged.

4.6.2 Connections

- Turn off the power to the charger before connecting or disconnecting rechargeable batteries.
- Observe the polarity when making connections (plus pole/+ and minus pole/-). There are risks of product damage, fire and explosion when making reverse connections.
- Do not short-circuit the charging contacts or connections of the charger to prevent sparks. Sparks can ignite flammable materials and can cause eye injury or skin burns.
- Prevent flames and sparks. Keep rechargeable batteries well-ventilated during charging. Flames and sparks can ignite explosive gases emitted by rechargeable batteries.

4.6.3 Charging

- Always attend the charging process. There are many hazards associated with charging rechargeable batteries.
- Always set the correct charging voltage. Failure to do so may cause a fire or explosion.
- Always supply the charger with the supported input voltage. Wrong input voltages can damage the charger or cause fire.
- Keep the charger well-ventilated during operation to allow heat to dissipate. Keep the ventilation openings unobstructed and clean. Keeping the charger ventilated during operation reduces the risk of overheating.

4.6.4 After charging

- Disconnect rechargeable batteries after they are charged. Keeping the work environment tidy reduces the risk of accidents.
- Disconnect the charger from the power supply after use to reduce the risk of short circuits.

4.7 Connected devices

- Also, observe the safety and operating instructions of any other devices which are connected to the product.

Technical data

Input voltage	7 – 30 V/DC
Input current	max. 18 A
Supported battery type	LiPo (1 – 8S) / LiHV (1 – 8S) / LiFe (1 – 8S) /Li-ion (1 – 8S) / NiMH (1 – 20
Operating temperature	+10 to +40 °C
Operating humidity	10 – 90 % RH
Storage temperature	-20 to +70 °C
Storage humidity	10 – 90 % RH

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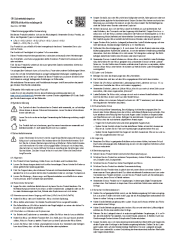
Documents / Resources

	ToolkitRC M8S Multi-Purpose Charger [pdf] Instruction Manual M8S Multi-Purpose Charger, M8S, Multi-Purpose Charger, Charger, 2377698

References

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