CHARGER
RC9 2430 / 1230
RC7 1250
with FireCAN

LEAB
by Micropower Group

USER MANUAL
VERSION 2
02/06/2026

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www.leab.eu

Table of contents

1 About this user manual

Read this user manual carefully and keep it in a safe place. This user manual is intended for Skilled workers in the field of automotive electrics.

Any modifications to the product or its components are prohibited and do not conform to its intended use. Only use accessories approved by Micropower GmbH.

Within this user manual, you will be notified of potential hazards involved in handling the device through warnings and safety instructions. The colours and signal words indicate the severity of the hazard:

Notice

Possibility of material damage

The signal word *Notice* indicates that there is a possibility of material damage. To avoid material damage, follow the instruction.

⚠ CAUTION

Danger that can lead to minor injuries

Safety instructions with the signal word *CAUTION* indicate a hazard which, if not avoided, can result in minor or moderate injury. Read the safety instructions carefully and follow them to avoid the hazard.

⚠ WARNING

Hazards that can lead to severe injuries or death

Safety instructions with the signal word *WARNING* indicate a hazard which, if not avoided, can result in death or severe injury. Read the safety instructions carefully and follow them to avoid the hazard.

⚠ DANGER

Danger that will lead to severe injury or death

Safety instructions with the signal word *Danger* indicate a hazard which, if not avoided, will result in death or severe injury. Read the safety instructions carefully and follow them to avoid the hazard.

You will find useful tips and tricks in some parts of the user manual. These appear as follows:

TIP

Tips provides additional, useful information.

Read the tip carefully and follow the instructions where applicable.

2 Safety

This user manual is designed to help you handle the unit safely. Use the unit solely in accordance with its intended use. Observe the safety instructions:

⚠ WARNING

Fire hazard

Heat build-up due to incorrect mounting or inadequate wiring.

1. Mount the device only as described in Chapter *Mounting [▷ 10]* of these instructions.
2. Only use the supplied connection cables.

Notice

Damage due to operation with an unsuitable battery

Operating the charger with an unsuitable battery can result in damage to the battery or a reduction in its performance and service life.

1. Before connecting, ensure that the type, voltage, and capacity of the battery align with the charger's technical specifications.

2.1 Intended use

Depending on the specification, the RC charger is designed for charging either lead acid batteries (wet, GEL/AGM), EFB batteries or lithium-ion batteries (Li-ion), each with a defined battery voltage.

2.2 Foreseeable misuse

The charger is used with a charging curve or voltage that is unsuitable for the connected battery type, outside the permissible temperature range or at an unsuitable installation site.

3 About this product

The RC charger is a highly efficient, robust battery charger designed for demanding industrial applications and for installation in vehicles. With its high efficiency and compact design, it offers a powerful and sustainable charging solution that is optimised for lead acid batteries (wet, GEL/AGM), EFB batteries and lithium-ion batteries with CAN bus communication.

The housing and its connections are designed to be dustproof and waterproof (IP67).

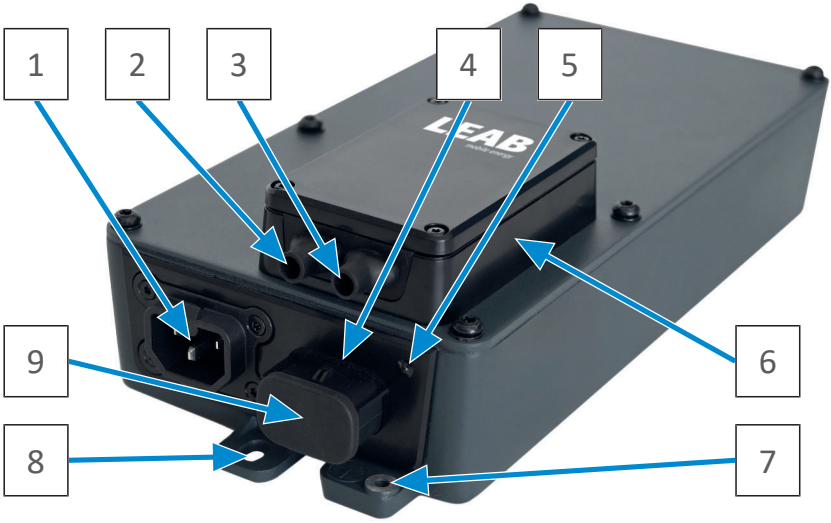

Fig. 1: RC charger

1	AC inlet IEC C16	2	DC outlet Plus (+), Ø 8 … 10 mm
3	DC outlet Minus (–), Ø 8 … 10 mm	4	COM connector Molex MX120G
5	Status LED	6	DC junction box
7	PE screw connector M4	8	Mounting holes (3×)
9	Jumper plug (pilot)		

4 Technical specifications

NOTE! The values given below may vary depending on the device configuration or parameter settings. The information on the data plate is binding.

NOTE! The part number can be found on the data plate.

RC charger for GEL and AGM batteries

	RC9 2430	RC9 1230	RC7 1250
Part number	1011923040	1011913040	1011715040
Battery voltage	24 V	12 V	12 V
Battery type	Gel/AGM		
Recommended battery capacity	50 Ah … 300 Ah		
Charging characteristics	fixed or CAN controlled		
Charging current (max.)	30 A	30 A	50 A
Quiescent current	<1 mA (30 µA)		
Nominal input voltage	115/230 VAC 50/60 Hz		
Input current (115/230 V)	6/3.3 A (nom.), max. 20 A (inrush)		
Recommended fuse rating	C10/B16		
Input voltage range	81 … 264 VAC		
Operating display	LED		
Protection class	I		
IP rating	IP67		
Degree of efficiency	≤ 96%		
FireCAN communication	Yes		
Complies with DIN 14679:2024-02	Yes		
Dimensions (L × W × H)	277.5 × 122 × 72.4 mm		
Weight	2.25 kg (without cables)		
Operating temperature range	-35 °C … +70 °C		
Storage temperature range	-40 °C … +85 °C		

RC charger for wet and EFB batteries

	RC9 2430	RC9 1230	RC7 1250
Part number	1011923020	1011913020	1011715020
Battery voltage	24 V	12 V	12 V
Battery type	Wet/EFB		
Recommended battery capacity	50 Ah … 300 Ah		
Charging characteristics	fixed or CAN controlled		
Charging current (max.)	30 A	30 A	50 A
Quiescent current	<1 mA (30 µA)		
Nominal input voltage	115/230 VAC 50/60 Hz		
Input current (115/230 V)	6/3.3 A (nom.), max. 20 A (inrush)		
Recommended fuse rating	C10/B16		
Input voltage range	81 … 264 VAC		
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Complies with DIN 14679:2024-02	Yes		
Dimensions (L × W × H)	277.5 × 122 × 72.4 mm		
Weight	2.25 kg (without cables)		
Operating temperature range	-35 °C … +70 °C		
Storage temperature range	-40 °C … +85 °C		

5 Package contents

Item	Standard version	No.
RC charger	12 V or 24 V, with FireCAN **NOTE!** Refer to the data plate on the device for these values.	1
DC cable	2 × 6 mm²; Length: 2.0 m, pre-assembled on the device side; Cable end: Ring terminal M8 (-), M10 (+); Part number: 1011005929 **NOTE!** Depending on the variant, the cable length and cable end may vary.	1
Mains cable	Length: 1.5 m; Plug: Schuko type F (CEE 7/4); Coupling: IEC C15, patented with locking mechanism and seal (IP67); Part number: 1011005906 **NOTE!** Depending on the variant, the cable length and connector type (e.g. Neutrik, open cable end) may vary.	1
Jumper (pilot)	Molex MX120G, sealed; connects pin 7 and pin 12 for pilot signal; Part number: 9936799009	1
User manual		1

6 Accessories (optional)

The following accessories are available for the RC charger:

Part number	Item
1011005941	RC temperature sensor cable, 10 m, Molex MX120G
1011005900	AC cable, 1.5 m; open cable end; Coupling: IEC C15, patented with locking mechanism and seal (IP67)
1011005930	AC coiled cable, 3 m; Plug: Schuko type F (CEE 7/4); Coupling: IEC C15, patented with locking mechanism and seal (IP67)

7 Mounting

Notice

Device damage due to overheating

The charger may heat up during use. Excessive operating temperature can lead to reduced performance or damage to the device.

1. Choose a mounting location with sufficient distance from other heat sources such as batteries, exhaust manifolds or turbochargers.

To mount the charger, perform the following step:

NOTE! Choose a mounting location that ensures good heat dissipation from the charger's base plate, e.g. a flat metal surface.

✓ A suitable mounting location is available.

1. Secure the charger at the mounting location. The mounting holes are located in the 3 tabs on the bottom of the housing.
   The exact housing dimensions and mounting hole spacing can be found in the appendix under: *Technical drawing [▶ 17]*

⇨ The unit is mounted.

8 Installation

8.1 Battery connection

To connect the charger to the battery, proceed as follows:

⚠ **CAUTION!** For charging lead acid batteries, the charger is preset to a specific battery type: wet, GEL/AGM or EFB. Only operate the charger with compatible battery types and voltage.

⚠ **CAUTION!** To charge lithium-ion batteries, the charging process must be controlled via an external battery management system (BMS). Communication takes place via CAN bus through the data port of the charger.

✓ The DC cable is connected to the DC terminal box of the charger. If the DC cable is not pre-assembled, refer to chapter *DC cable connection [▸ 13]*.

1. Secure the positive lead of the device as close as possible to the battery with a suitable fuse.
2. Connect the positive lead (M10 tubular cable lug) to the positive terminal of the battery.
3. Connect the negative lead (M8 tubular cable lug) to the negative terminal of the battery.

⇨ The charger is connected to the battery.

8.2 Jumper

NOTE! The following description applies only to the standard version of the charger.

In the as-delivered state of the RC9 charger, the jumper [9] is already inserted in the data connector [4] and performs the following functions:

– Connecting pin 7 to pin 12 in the data connector for the pilot signal required for operation,
– Sealing the data connector (IP67).

NOTE! Only remove the jumper if the charger is connected to other components via the data connector.

NOTE! Note that, due to its mechanical coding, the plug can only be inserted in the intended orientation.

8.3 Connection to the mains power supply

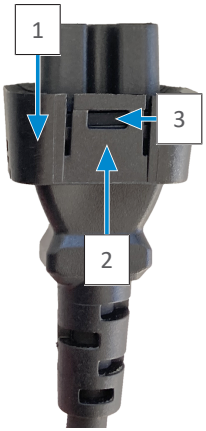


Fig. 2: Patented coupling (IEC C15) with safety sleeve

1	Safety sleeve	2	Retaining clip
3	Seal		

To connect the charger to the supplying mains power, proceed as follows:

⚠ **CAUTION!** The charger should only be used with the mains voltage specified on the type plate.

✓ Check that the rubber seal on the coupling (IEC C15) of the AC cable is fitted and clean.

✓ Ensure that a two-pin earthed plug is available for the AC power supply.

1. Plug the AC cable coupling (IEC C15) into the AC input (IEC C16) of the charger (*About this product [▸ 6]* [1]).
2. Slide the safety sleeve of the inserted coupling over the AC input. The two retaining clips of the sleeve must engage in the AC input with an audible click.

   NOTE! The safety sleeve ensures a secure and water-tight plug connection (IP67).
3. Plug the AC mains plug into the designated two-pin earthed plug.

⇨ The charger is connected to the mains power supply.

TIP

Releasing the safety sleeve

To release the safety sleeve of the coupling (IEC C15) from the AC input, proceed as follows:

1. Carefully lever one of the two retaining clips upwards with a screwdriver until the sleeve can be pulled back.
2. Repeat the previous step on the opposite side of the sleeve.

8.4 DC cable connection

NOTE! As standard, the DC cable on RC chargers is already fully assembled at the factory.

To connect the DC cable to the charger, proceed as follows:

NOTE! Use only DC cables with an outer diameter of at least 8 mm and at most 10 mm.

1. Loosen the 4 screws (TX10) of the DC terminal box and remove the cover.
2. Loosen the 2 screws (TX10) of the strain relief and remove the strain relief clamp.
3. Feed the positive and negative leads through the cable gland on the connection side of the terminal box.

   NOTE! The cable gland can be removed from the terminal box and reinserted during installation.
4. Fit the **Plus** lead with an **M8** tubular cable lug.
5. Fit the **Minus** lead with an **M6** tubular cable lug.
6. Loosen and remove the nut (M8, SW13) and the serrated washer at the positive terminal (**+**).
7. Place the M8 tubular cable lug of the positive lead and then the serrated washer over the M8 threaded stud at the positive terminal (**+**).
8. Screw the nut (M8, SW13) onto the M8 threaded stud at the positive terminal (**+**) and tighten it with a tightening torque of 5.5 Nm.
9. Loosen and remove the nut (M6, SW10) and the serrated washer at the negative terminal (**–**).
10. Place the M6 tubular cable lug of the negative lead and then the serrated washer over the M6 threaded stud at the negative terminal (**–**).
11. Screw the nut (M6, SW10) onto the M6 threaded stud at the negative terminal (**–**) and tighten it with a tightening torque of 5.5 Nm.
12. Insert the strain relief clamp and secure it with the 2 screws (TX10).
13. Place the cover on the terminal box and secure it with the 4 screws (TX10).

⇨ The DC cable is connected.

8.5 Connecting optional accessories

To connect optional accessories, e.g. a temperature sensor, refer to the information supplied with the accessories.

If you have any questions regarding other connections, e.g. CAN bus, control relays, etc., please contact Micropower customer support.

9 Operation

To commission the RC charger, carry out the following step:

✓ The charger is connected to all components.

1. Connect the charger to the AC power supply.

⇨ The RC charger operates fully automatically. The on the device provides information about the current operating status.

NOTE! The status LED does not light green immediately when a fully charged battery is connected. This delay can vary from 0 to 2 hours.

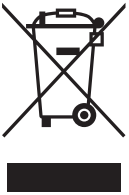
9.1 Operating display

The current operating status is indicated by an LED on the connection panel of the charger (*About this product [6]*[5]).

LED	Meaning / Action
	Off: The charger is not connected to the AC power supply, or no mains voltage is present, or the mains voltage is too low.
	Blue: Mains voltage is present; ready for connection of the battery.
	Yellow: The connected battery is being charged.
	Green: The connected battery is fully charged and ready for use. The charger can be disconnected from the mains.

LED	Meaning / Action
	Red: A fault is present. Battery charging has been interrupted. No battery connected, or connection to the battery interrupted: – Check that the charger is connected to the battery to be charged. – Check the cable and contacts for interruptions. – Check the battery fuse. Battery voltage too low: – Check the battery voltage. For safety reasons, the charging process will not start if the total voltage is below 12 V (with a 24 V on-board supply system) or 6 V (with a 12 V on-board supply system). Check the batteries and charge them using an external charger until the minimum voltage is reached. – Replace defective batteries immediately. Battery temperature too high: – Allow the battery to cool down. Determine the cause and rectify it if necessary; the charging process will start automatically as soon as the temperature is back within the target range.

10 Disposal



Dispose of the device in accordance with the Waste Electrical and Electronic Equipment Regulations (WEEE).

The system must not be disposed of with household waste. Take it to a recycling point or return it to your point of sale.

11 Appendix

11.1 Connections and pin assignment

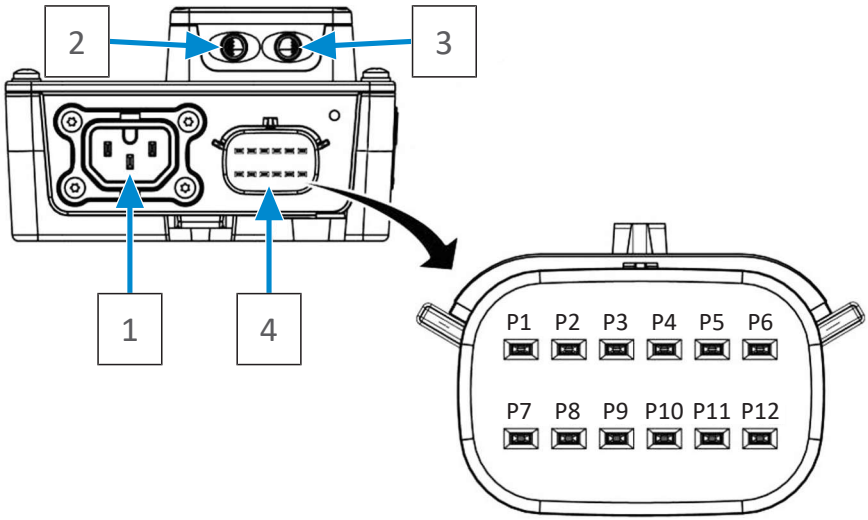


Fig. 3: Connections and pin assignment

1	AC Input IEC C16	2	DC Plus connector (+) M8
3	DC Minus connector (–) M6	4	Data connector (Molex MX120G)

P1	CAN_H	P2	CAN_L
P3	CAN GND	P4	Relay (NO, normally open)
P5	Relay (C, common point P4, P6)	P6	Relay (NC, normally closed)
P7	Signal GND (reference to P8, P9, P12)	P8	NTC sensor for temperature measurement
P9	Aux 12 VDC, max. 50 mA	P10	LED 1 Output for LED status indication (anode red)
P11	LED 2 Output for LED status indication (anode green)	P12	Pilot, required for charger operation

11.2 Technical drawing

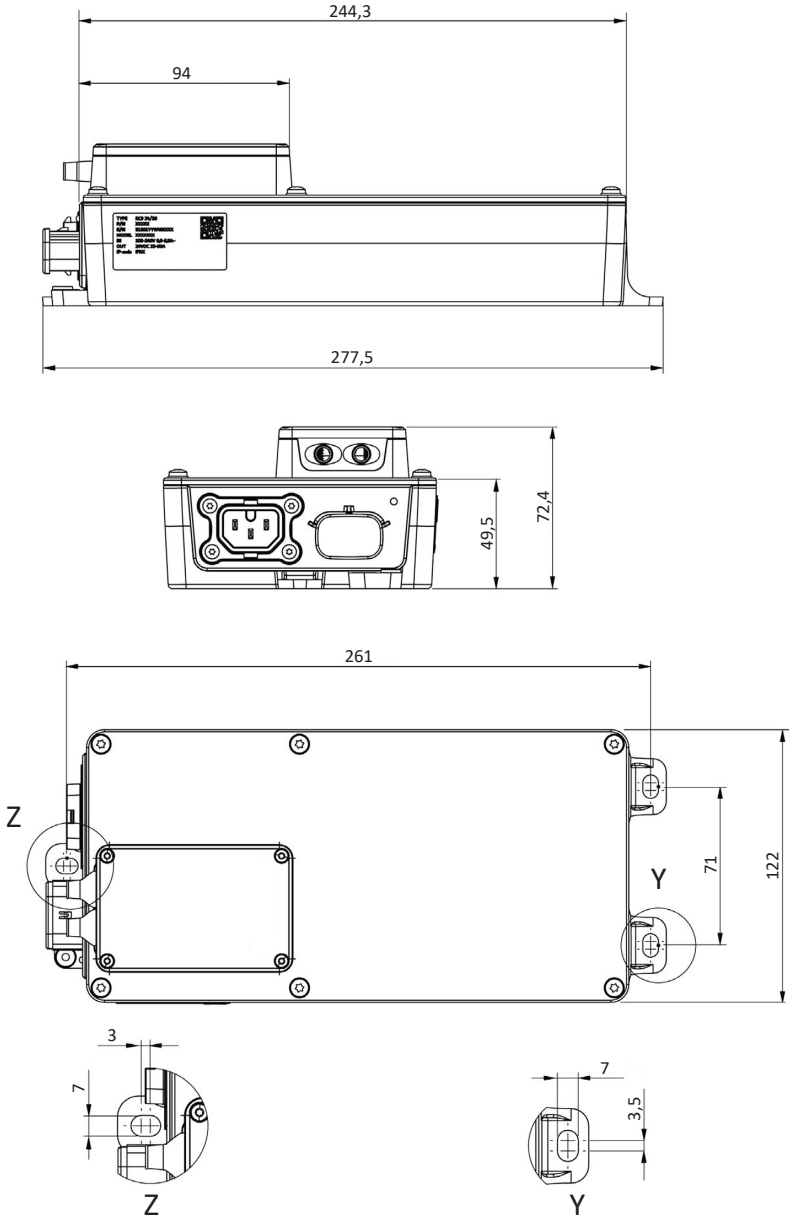


Fig. 4: Housing dimensions in mm

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