

PerfectCharge

IU152A, IU154A, IU252A, IU254A, IU452A

DE 11 IU00-Automatklader
Montage- und Bedienungsanleitung

EN 33 IU00 Automatic Charger
Installation and Operating Manual

FR 54 Chargeur automatique de batteries IU00
Instructions de montage et de service

ES 77 Cargador automático IU00
Instrucciones de montaje y de uso

IT 100 Caricabatterie automatico IU00
Istruzioni di montaggio e d'uso

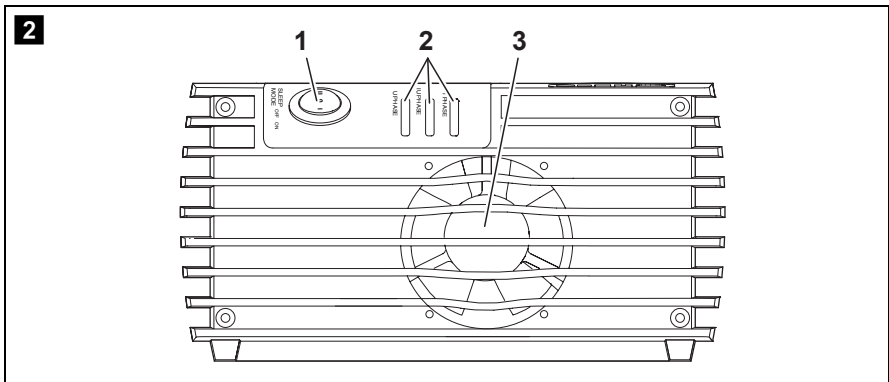
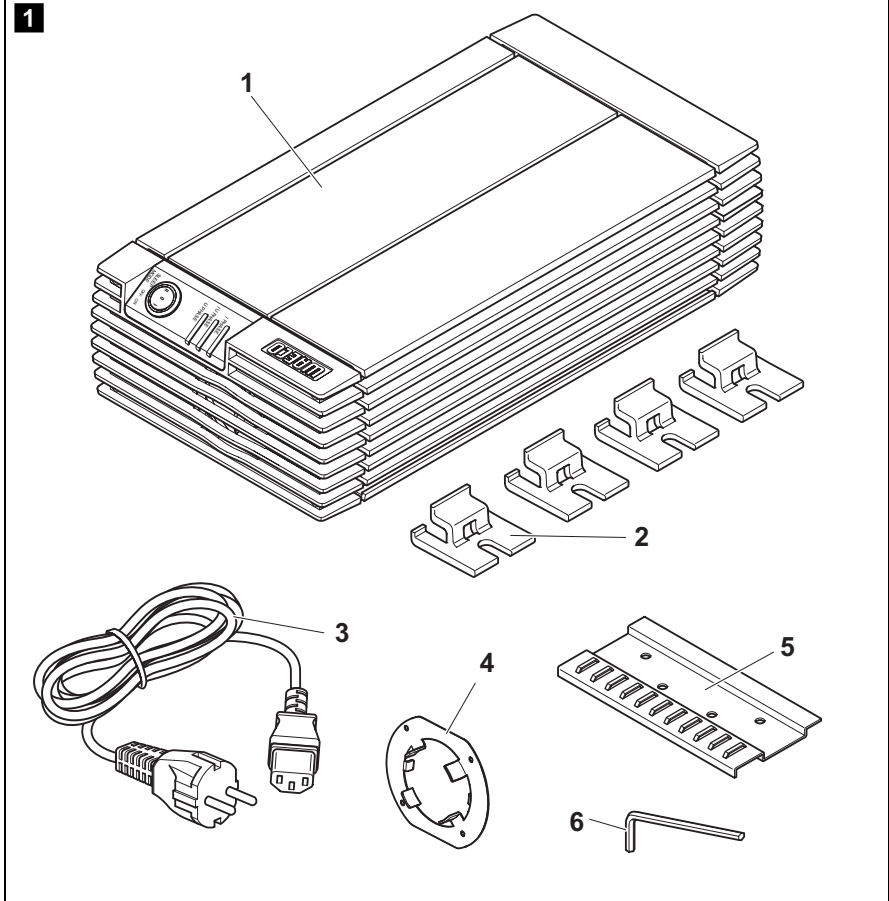
NL 122 IU00 automatische lader
Montagehandleiding en gebruiksaanwijzing

DA 144 IU00 automatisk oplader
Monterings- og betjeningsvejledning

SV 165 IU00 automatisk lader
Monterings- och bruksanvisning

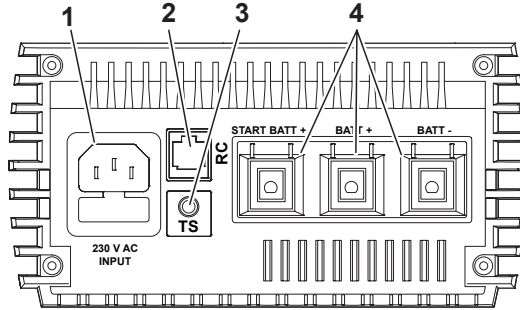
NO 186 IU00-Automatisk batteriladdare
Monterings- og bruksanvisning

FI 206 IU00-automaattilaturi
Asennus- ja käyttöohje

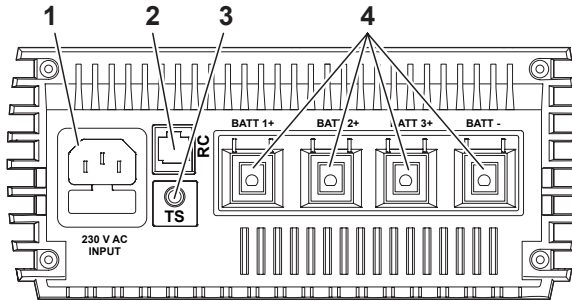


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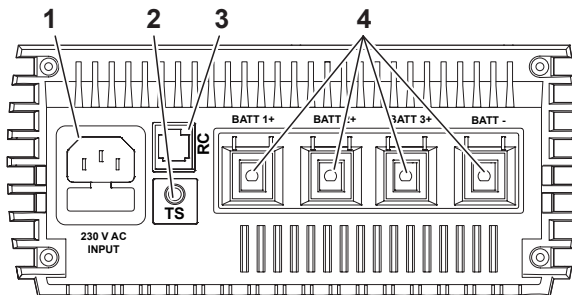
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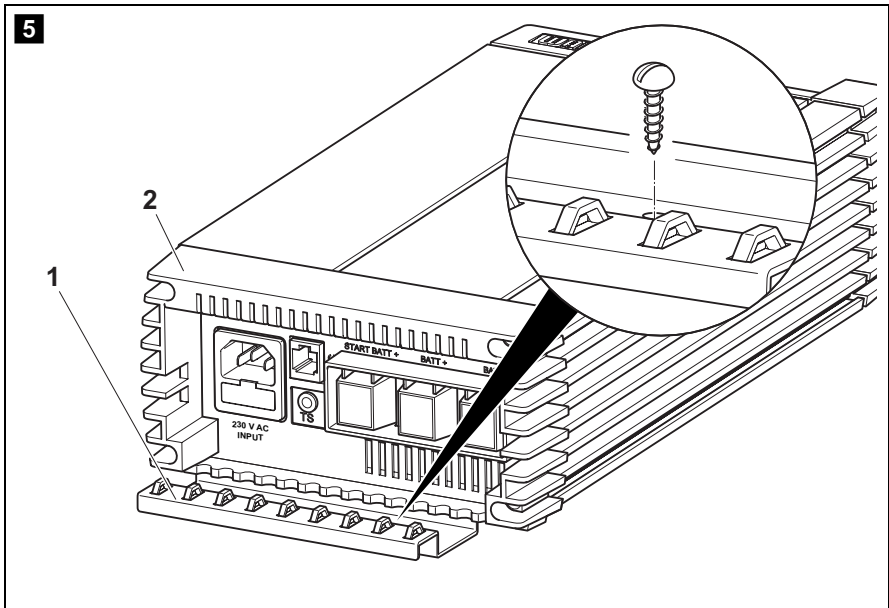
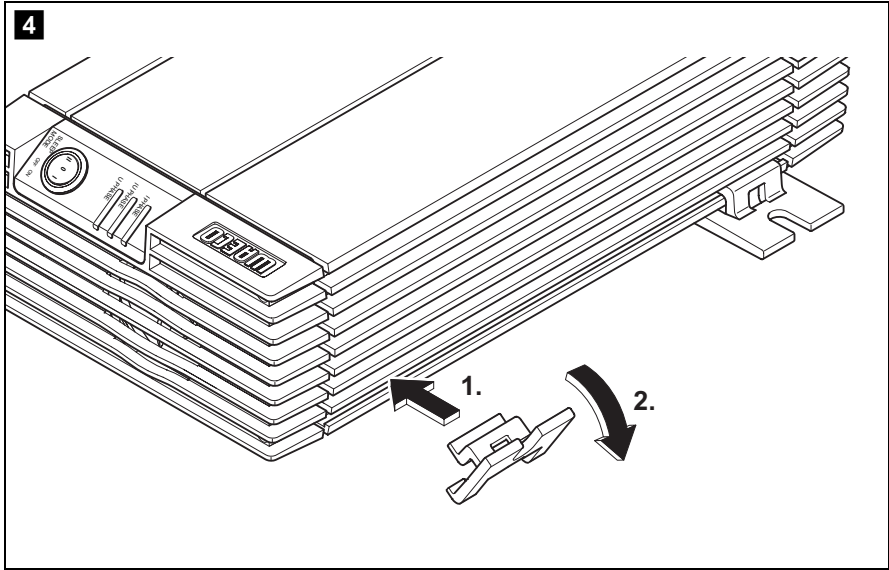


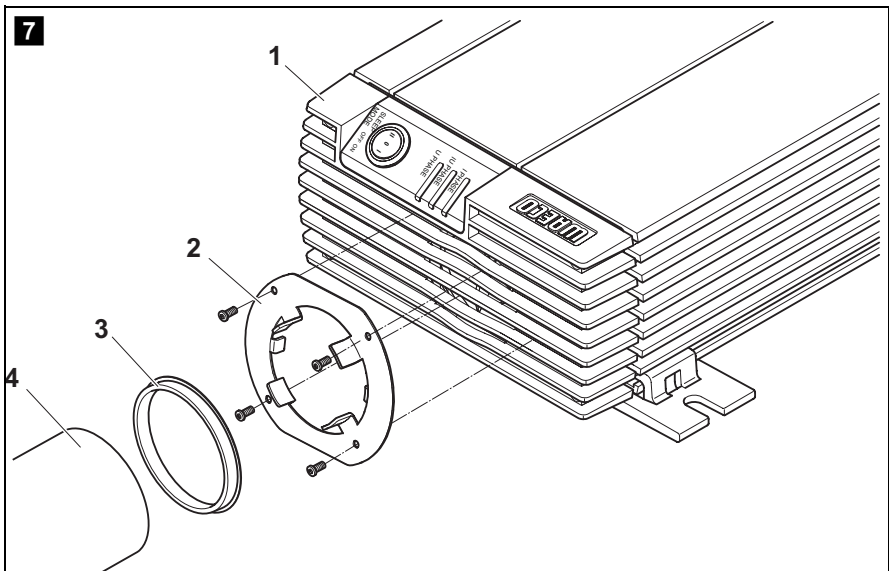
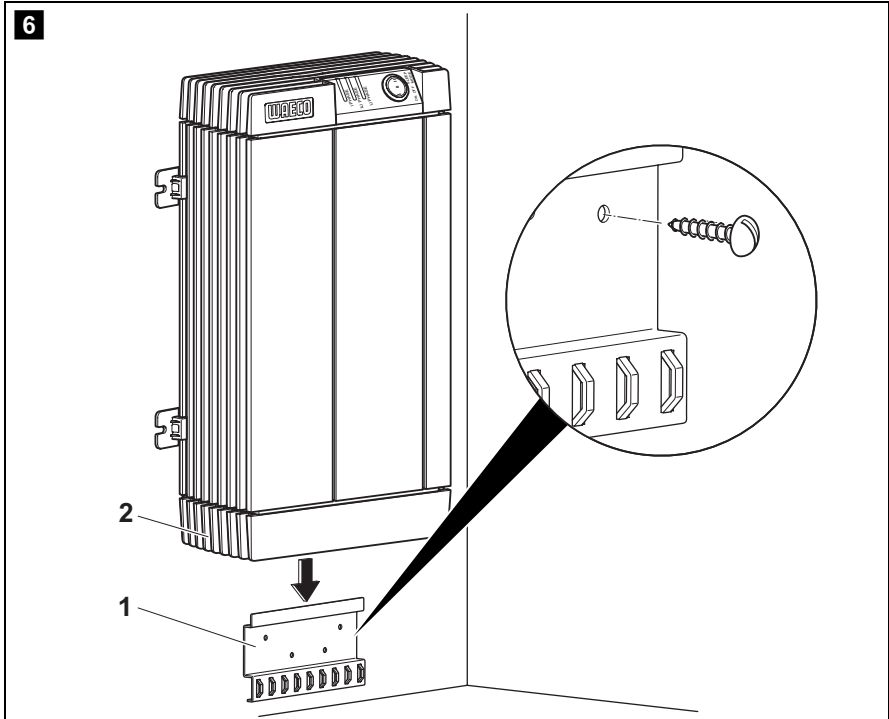
IU154A, IU252A

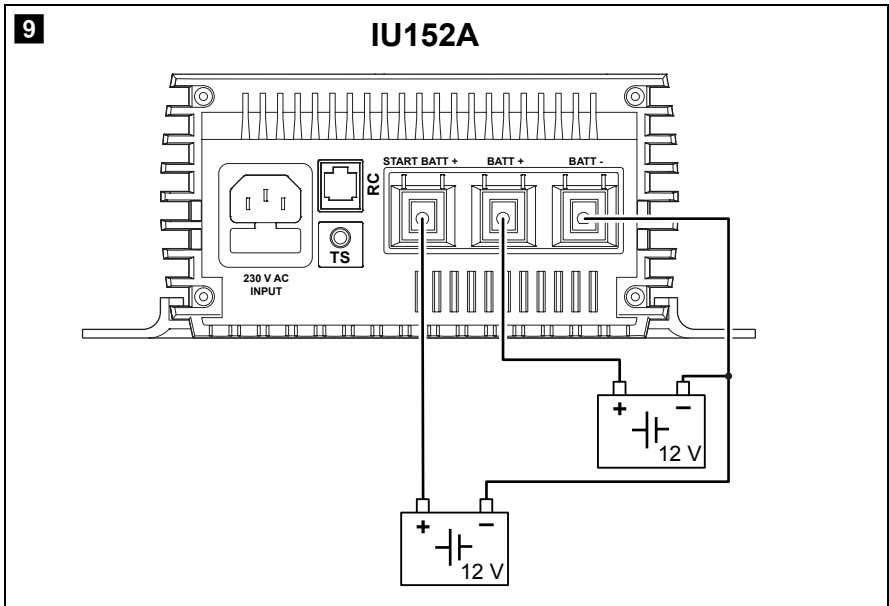
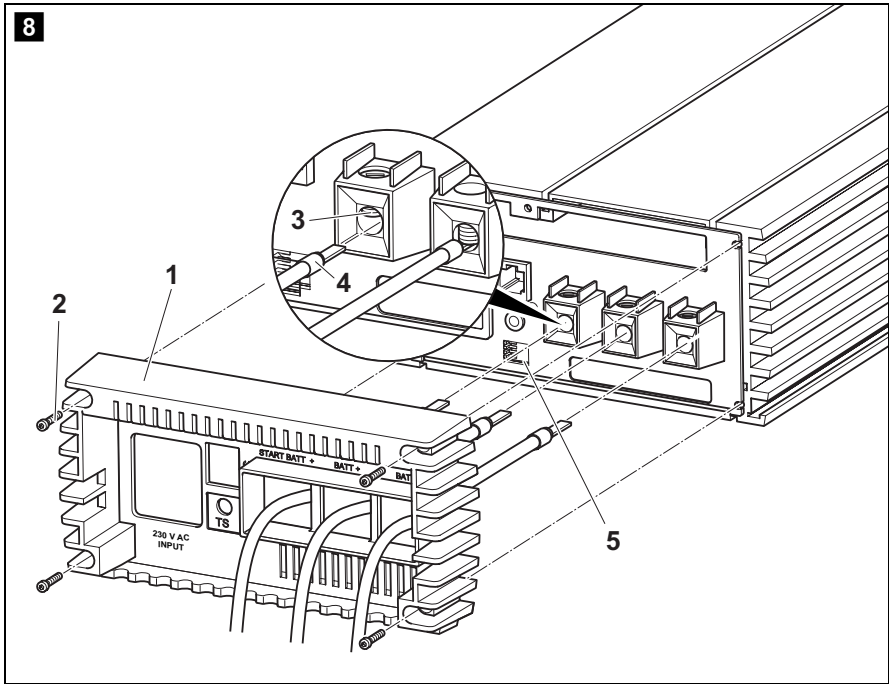


IU254A, IU452A



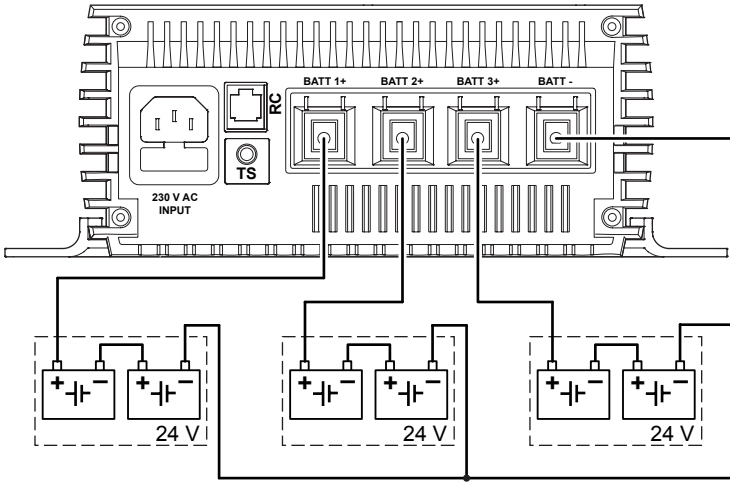






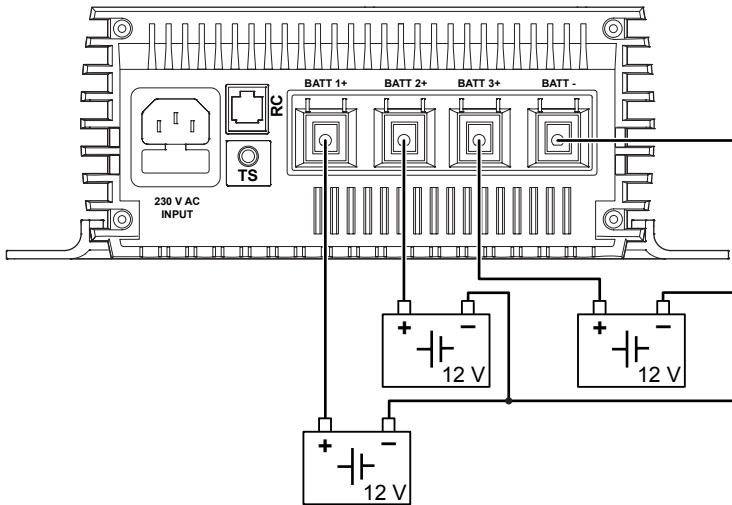
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IU154A



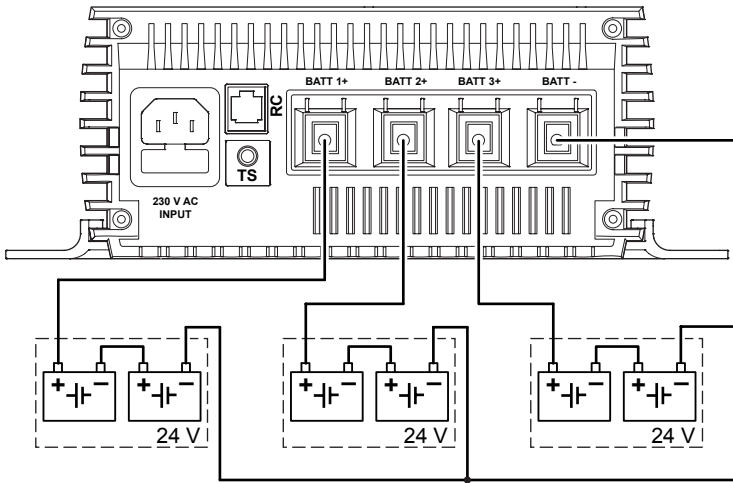
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IU252A



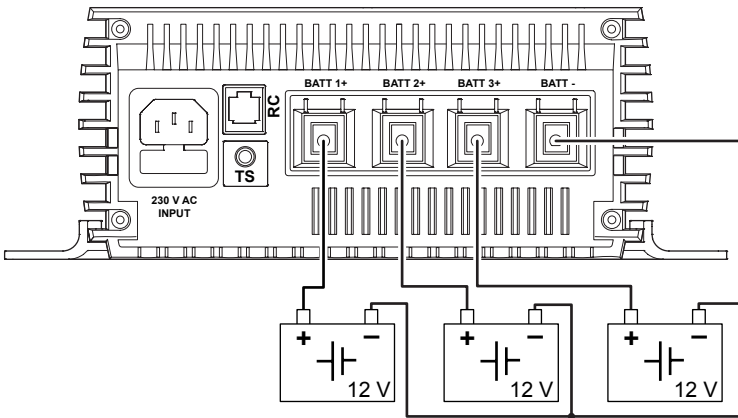
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IU254A

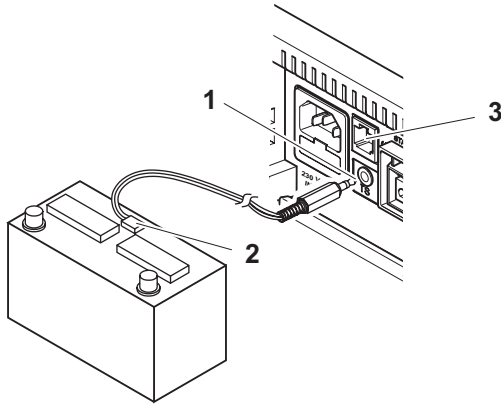


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IU452A



14



Please read this manual carefully before installing and starting up the device, and store it in a safe place. If the device is passed on to another person, this manual must also be handed over with it.

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1 Notes on using the manual

**Caution!**

Safety instruction: failure to observe this instruction can cause material damage or personal injury.

**Caution!**

Safety instruction: Failure to observe this instruction can cause material damage and impair the function of the device.

**Caution!**

Safety instruction relating to a danger from an electrical current or voltage. Failure to observe this instruction can cause material damage or personal injury and impair the function of the device.

**Note**

Supplementary information for operating the device.

► **Action:** This symbol indicates that action is required on your part. The required action is described step-by-step.

✓ This symbol describes the result of an action.

fig. 1 5, page 3: This refers to an element in an illustration. In this case, item 5 in figure 1 on page 3.

Please observe the following safety instructions.

2 General safety instructions

The manufacturer will not be held liable for claims for damage resulting from the following:

- Faulty assembly or connection
- Damage to the appliance resulting from mechanical influences and excess voltage
- Alterations to the device without express permission from the manufacturer
- Use for purposes other than those described in the operating manual

Please observe the following basic safety information when using electrical devices to protect against:

- Electric shock
- Fire hazards
- Injury

2.1 General safety



- Batteries contain aggressive acids.
Avoid coming into contact with battery fluid.
If your skin does come into contact with battery fluid, wash the part of your body in question and your clothes thoroughly with plenty of fresh water.
If you sustain any injuries from acids, contact a doctor immediately.
- Never attempt to charge a frozen or defective battery.
There is a danger of explosions!
Place the battery in a frost-free area and wait until the battery has acclimatised to the ambient temperature. Only then can you start the charging process.
- Persons whose physical sensory or mental capacities prevent them from using this device safely should not operate it without the supervision of a responsible adult.
- **Electronic devices are not toys**
Keep electrical appliances out of reach of children or infirm persons. Do not let them use the appliances without supervision.



- Use the IU0U automatic charger only as intended.
- Charge the battery only in well ventilated rooms.
- Always disconnect the power supply when working on the device.
- Store the IU0U automatic charger in a dry and cool place.
- Maintenance and repair work may only be carried out by qualified personnel who are familiar with the risks involved and the relevant regulations.

2.2 Operating the device safely



- If electrical devices are incorrectly installed on boats, corrosion damage might occur. The IU0U automatic charger should be installed by a specialist (marine) electrician.



- Only operate the IU0U automatic charger if you are certain that the housing and the cables are not damaged.
- Do not operate the IU0U automatic charger in a damp or wet environment.
- Make sure the device is standing firmly.
The IU0U automatic charger and the batteries to be charged must be set up in such a way that they cannot tip over or fall down.
- Take precautions necessary to ensure that the IU0U automatic charger is out of reach of children.
Dangerous situations may occur which cannot be recognised by children!
- Always use sockets which are grounded and secured by residual current circuit breakers to operate the device.

3 Scope of delivery

No. in fig. 1, page 3	Designation
1	Charger
2	Holders (4 pcs)
3	Connection cable (for 230 V _{AC} -supply)
4	Exhaust adapter
5	Mounting bracket
6	Hexagon socket wrench
–	Fastening screws (12 pcs)
–	Operating manual

4 Accessories

Designation	Item no.
Remote control	
Temperature sensor	TF-500

5 Intended use

PerfectCharge IU0U automatic chargers can charge or trickle charge batteries or supply batteries, which are used to generate power in vehicles or on boats.

The IU0U automatic charger can be used to continuously charge supply or starter batteries. It can charge these batteries or maintain a high charge level:

- 12 V batteries: IU152A, IU252A, IU452A
- 24 V batteries: IU154A, IU254A

The IU0U automatic charger can be used to charge the following types of batteries:

- Lead starter batteries
- Gel batteries
- Fleece batteries (AGM)
- Maintenance-free lead batteries

with the capacities and voltages specified in the chapter “Technical data” on page 52.

Ask your battery retailer for details relating to the maximum capacity of lead gel batteries.

**Caution**

Batteries with a cell short circuit may not be charged, as explosive gases may form due to overheating of the battery.

**Caution**

The IU0U automatic charger may **never** be used to charge other battery types (e.g. NiCd, NiMH, etc.)!

6 Technical description

6.1 Function

A fuse protects the device from damage if the polarity is reversed. For the type and rating of the fuse in your device, see chapter “Technical data” on page 52.

**Caution**

The device's fuse may only be replaced by qualified personnel who are familiar with the risks involved and the relevant regulations.

**Note**

You can use a temperature sensor (**accessory**) to protect the battery from damage from extreme outdoor temperatures. The temperature sensor is attached to the battery and connected to the IU0U automatic charger. It protects the battery by adjusting the charging voltage to the temperature of the battery (see chapter “Charging characteristics” on page 47).

Three control lamps on the device are for constant monitoring of the IU0U automatic charger (see chapter “Functional check” on page 49).

6.2 Specifications for the device variants

Various PerfectCharge IU0U automatic charger versions are available.

Your IU0U automatic charger can be used to charge batteries up to a specified battery capacity (see chapter “Technical data” on page 52):

- **IU152A:** suitable for charging one supply battery and one starter battery
- **IU154A, IU252A:** suitable for charging up to two supply batteries and one starter battery
- **IU254A, IU452A:** suitable for charging up to three supply batteries.

For the identification of your device, see the item number on the type plate.

6.3 Control elements

Front view (fig. **2**, page 3)

No.	Description
1	Main switch 0/Off: device is switched off I/On: device is switched on II/Sleep Mode: device runs quietly (sleep mode: half power)
2	Status LEDs: show the current charging status (see chapter “Charging characteristics” on page 47) U Phase: the IU0U automatic charger is in the U phase IU Phase: the IU0U automatic charger is in the U0 phase I Phase: the IU0U automatic charger is in the I phase
3	Fan

Rear view (fig. 3, page 4)

No.	Description
1	230 V power supply connection
2	RC: connection for remote control (accessory)
3	TS: connection for temperature sensor (accessory)
4	Battery connection terminals BATT 1+, BATT 2+, BATT 3+: positive terminal for supply batteries BATT –: negative terminal START BATT + (only IU152A), BATT 1+ (only IU154A, IU252A): positive terminal of the starter battery

7 Fastening the IU0U automatic charger

You can fasten the IU0U automatic charger using the four holders supplied.

When selecting the installation location, observe the following instructions:

- You can mount the IU0U automatic charger either horizontally or vertically.
- Do **not** operate the device
 - In wet or damp environments
 - In dusty environments
 - In the vicinity of flammable materials
 - In spaces where there is a danger of explosion
- Select a well-ventilated location for the device.

A ventilation system must exist for installations in small, enclosed spaces. The free space around the IU0U automatic charger must be at least 5 cm.

- Make sure that the ventilation slots on the front and back as well as under the IU0U automatic charger are not covered.
- Select a mounting surface which is flat and sufficiently firm.
- Make sure you have adequate space for the mounting bracket behind the device when choosing a mounting location.



Caution

Before drilling any holes, make sure that no electrical cables or other parts of the vehicle can be damaged by drilling, sawing and filing.

Fastening the IU0U automatic charger to the floor

- Clip two holders on the left bar and two on the lower right bar (fig. **4**, page 5).
You can move the holders as required.
- Fasten the IU0U automatic charger by screwing one screw through each hole in the holders.
- Lay the mounting bracket (fig. **5** 1, page 5) with the clip over the edge on the back of the IU0U automatic charger (fig. **5** 2, page 5).
- Fasten the mounting bracket by screwing one screw into each of the four holes.

Mounting the IU0U automatic charger on the wall

- Clip two holders on the left bar and two on the lower right bar (fig. **4**, page 5).
You can move the holders as required.
- Screw the mounting bracket (fig. **6** 1, page 6) on to the wall by screwing one screw into each of the four holes.
- Press the IU0U automatic charger (fig. **6** 2, page 6) on to the mounting bracket so that the edge on the back of the IU0U automatic charger is pinched between the wall and the clip on the mounting bracket.
- Fasten the IU0U automatic charger by screwing one screw through each hole in the holders.

8 Connecting the IU0U automatic charger to the exhaust system

You can connect the IU0U automatic charger to an exhaust system. The warm exhaust is thereby driven out of the internal chamber.

Proceed as follows (fig. **7**, page 6):

- Set the exhaust adapter (**2**) on the front of the charger (**1**) over the fan, so that the screws fit into the holes.
- Attach the exhaust adapter using the four screws provided.
- Connect the hose support (**3**, **not** included) to the exhaust adapter.
- Connect the exhaust system hose (**4**) to the hose support.

9 Connecting the IU0U automatic charger



Caution

The IU0U automatic charger may only be connected by a qualified specialist.

The following information is intended for technicians who are familiar with the guidelines and safety precautions to be applied.

Observe the following safety instructions for the electrical connections:



- **Caution, risk of short circuit**

Always use sockets which are grounded and secured by residual current circuit breakers.

- If you have to feed cables through metal walls or other walls with sharp edges, use ducts or tubes to prevent damage.
 - Do not lay cables which are loose or bent next to electrically conductive material (metal).
 - Fasten the cables securely.
 - Do not pull on the cables.
 - Do not lay the 230 V mains cable and the 12/24 V DC cable in the same duct.
 - Lay the cables so that they cannot be tripped over or damaged.
-

9.1 Connecting the IU0U automatic charger to a battery (fig. 8, page 7)



Warning

Avoid coming into contact with the battery fluid.



Caution

Batteries with a cell short circuit may not be charged, as explosive gases may form due to overheating of the battery.

**Note**

Loose connections may cause overheating.
Tighten the screws on the terminals to a torque of 12 – 13 Nm.

**Note**

IU152A: To connect starter batteries, use the special “START BATT +” terminal intended for this purpose.

**Note**

IU154A, IU252A: To connect starter batteries, use the special “BATT 1+” terminal intended for this purpose.

You will find the circuit diagrams with all possible wiring options for the various IU0U automatic chargers in fig. **9**, page 7 to fig. **13**, page 9.

Laying the battery cables

- Lay the positive cable of the batteries to the IU0U automatic charger.

**Note**

To connect more than one battery, connect the negative terminals of the batteries to an earth cable and connect the earth cable to the IU0U automatic charger.

- Lay the negative cable of the battery or earth cable to the IU0U automatic charger.

Preparing the IU0U automatic charger

- Turn the main switch to “0”.
- Unscrew the four fastening screws (**2**) from the rear panel using the hexagon socket wrench provided.
- Remove the rear panel (**1**).

Connecting the battery cables to the IU0U automatic charger



Note

The IU0U automatic charger's connections are suitable for cables with cross-sections of 10 mm² to 25 mm².

- ▶ Fit wire sleeves to the ends of the cables to ensure permanent contact.
- ▶ Connect the positive battery cable to the respective slot:
 - Supply battery: “BATT 1+”, “BATT 2+”, “BATT 3+”
 - Starter battery: “START BATT +” (**IU152A**), “BATT 1+” (**IU154A, IU252A**)
- ▶ Connect the negative battery cable or earth cable to the respective slot:
 - Supply battery: “BATT –”

The following instructions apply to all cables accordingly:

- ▶ Fit cable sleeves on the ends of the cables (**4**).
- ▶ Undo the safety bolt (**3**) slightly.
- ▶ Insert the cable sleeves (**4**) in the slots provided.
- ▶ Retighten the safety bolt (**3**).

Connecting batteries

- ▶ Connect batteries according to the circuit diagram of your IU0U automatic charger.

Closing the IU0U automatic charger

- ▶ Refit the rear panel (**1**) and fasten it with the screws (**2**).

9.2 Connecting the 230 V power cable

- ▶ Connect the 230 V connection cable (fig. **1** 3, page 3) to the 230 V connection (fig. **3** 1, page 4) of the IU0U automatic charger.
- ▶ Insert the plug of the 230 V connection cable (fig. **1** 3, page 3) to an earthed socket which is protected by a residual current circuit breaker.

9.3 Connecting the temperature sensor (accessory)

The temperature sensor measures the temperature at the battery or around the battery and transfers the data to the IU0U automatic charger. The charging voltages specified in the chapter “Technical data” on page 52 refer to an ambient temperature of 15 °C to 25 °C. If temperatures deviate, the charging voltage is increased or reduced according to the diagram on page 49.

- ▶ Turn the main switch to “0”.
- ▶ Lay the cable between the battery and the IU0U automatic charger.
- ▶ Connect the temperature sensor to the TS socket on the back of the IU0U automatic charger (fig. **14** 1, page 10).
- ▶ Attach the sensor head directly to the battery (fig. **14** 2, page 10), e.g. using double-sided adhesive tape.

9.4 Connecting the remote control (accessory)

The remote control is for activating and deactivating sleep mode and for monitoring the functions (see chapter “Functional check” on page 49) of the IU0U automatic charger.

- ▶ Lay the cable between the remote control and the IU0U automatic charger.
- ▶ Insert the plug of the remote control in the “RC” socket (fig. **14** 3, page 10) of IU0U automatic charger.

10 Using the IU0U automatic charger

You can use the IU0U automatic charger to trickle charge empty batteries or supply batteries.



Note

The chargers **IU152A**, **IU252A** and **IU154A** have a charger output for the starter battery with an output voltage in the range between 13.2 V (26.4 V) and 13.8 V (27.6 V). The charger output for the starter battery recharges the starter battery with a current of up to 1 A or maintains a high charge level.

- ▶ Switch on the device with the main switch (fig. **2** 1, page 3).

10.1 Setting the IU0U automatic charger (fig. 8, page 7)

Charging voltage and time limit



Note

Ask your battery retailer for details on the charging voltage and time limit required for your batteries.



Caution

Make sure that the device is never used if DIP switches 1 and 2 or DIP switches 3 and 4 are both at the “ON” position. Only the switch positions described in the following tables ensure the correct operation of the IU0U automatic charger.

- Turn the main switch to “0”.
- Unscrew the four fastening screws (2) from the rear panel using the hexagon socket wrench provided.
- Remove the rear panel (1).
- Use the DIP switches (5) to set the required charging voltage and the duration of the main charging phase (U0 phase, also see chapter “Charging characteristics” on page 47):

Setting the charging voltage for **IU152A, IU252A and IU452A**:

Charging voltage	Switch 1	Switch 2	Area of application
13.8 V	OFF	OFF	Old starter batteries, mains adapter operation
14.4 V	ON	OFF	Wet and gel batteries
14.8 V	OFF	ON	Fleece batteries

Setting the charging voltage for **IU154A and IU254A**:

Charging voltage	Switch 1	Switch 2	Area of application
27.6 V	OFF	OFF	Old starter batteries, mains adapter operation
28.8 V	ON	OFF	Wet and gel batteries
29.6 V	OFF	ON	Fleece batteries

Setting the duration of the main charging phase:

Duration of the main charging phase	Switch 3	Area of application
8 hours	ON	Wet batteries
16 hours	OFF	Gel and fleece batteries

Setting the charging mode:

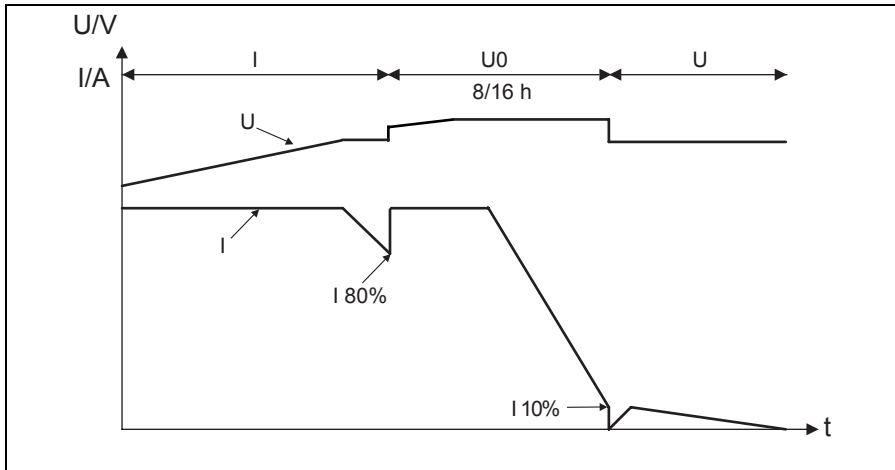
Charging mode	Switch 4
The trickle charge is activated according to the charging current.	OFF
The charging voltage is maintained for the duration of the set main charging phase irrespective of the charging current. When this time has passed, the device switches back to trickle charge.	ON

10.2 Switching the device on and off with the remote control (accessory)

- Turn the main switch on the IU0U automatic charger (fig. **2** 1, page 3) to “SleepMode” to switch the device on and off using the remote control.
- Press the ON/OFF button on the remote control to switch the device on or off.

10.3 Charging characteristics

The charging characteristics are referred to as modified IU0U characteristics.



I Phase

The empty battery is charged with a constant current at the beginning of the charging process, until the battery voltage reaches 13.8 V or 27.6 V. The charging current falls slowly when the battery has reached this charging level. If the current falls below the 80% mark, the charger switches to the higher charging voltage of 14.4 V/14.8 V or 28.8 V/29.6 V.



Note

The charging voltage and the time for the main charging phase (U0 phase) can be selected by means of a switch panel (see chapter “Setting the IU0U automatic charger (fig. 8, page 7)” on page 46).

U0 Phase

Now the time that limits the main charging phase (U0 phase) to a maximum of 8/16 hours is recorded. When the charging voltage is switched over, the current is increased until the maximum is reached. It remains constant as long as the battery voltage is below 14.4 V/14.8 V or 28.8 V or 29.6 V.

When the maximum voltage is established, the current drops again. The voltage remains constant (U0). During this main charging phase, which is limited to 8/16 hours, the battery is charge completely.

U Phase

If the current falls to 10% of the rated current or if the time limit of 8/16 hours is exceeded, the charger switches to trickle charge (13.8 V or 27.6 V) (U phase).



Note

The chargers with two or three charging connections enable batteries to be charged separately. The outputs are separated internally via diodes. The charge level of the weaker battery is always brought to the level of the stronger battery first. The charging characteristics are as described above.

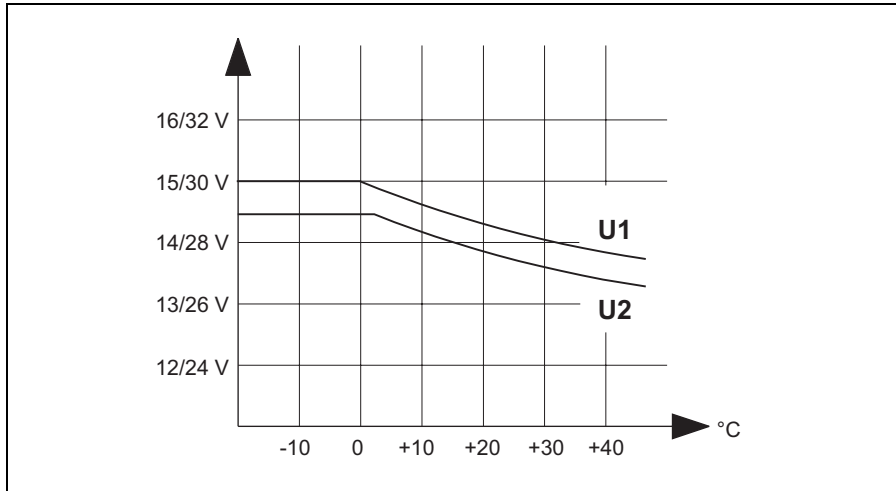


Caution

The maximum battery capacity (see chapter “Technical data” on page 52) must not be exceeded since that would affect the individual charging phases.

Devices with temperature sensors (accessory)

The charging voltage is adjusted according to the battery temperature. A temperature sensor can be connected for an optimum charging function. The charging voltage is increased or reduced according to the battery temperature (see diagram):



10.4 Functional check

The charging of the batteries can be monitored by means of an LED on the front of the device:

LED	Battery charge status
I Phase	Between 10% and 50%
U0 Phase	Between 50% and 90%
U Phase	Above 90%

11 Cleaning and servicing the IU0U automatic charger



Caution

Do not use any sharp or hard objects for cleaning since they may damage the device.

- Clean the IU0U automatic charger with a damp cloth from time to time.

12 Rectifying faults



Caution

This chapter is intended for technicians who are familiar with the guidelines and safety precautions to be applied.



Note

If you have questions concerning details of the **battery specifications** please contact the battery manufacturer.

The voltage of the battery does not rise after the IU0U automatic charger has been connected and put into operation.

- Use a suitable multimeter to check whether the voltage of the battery terminals rises during charging.
- Check whether the terminals are connected properly to the battery terminals.
- Clean the battery terminals as necessary.

The battery is not completely charged after charging for approximately 20 hours.

- Disconnect the IU0U automatic charger from the mains power.
- Remove the charger terminals from the battery and wait for a few minutes.
- Use a suitable multimeter to check the voltage of the battery terminals.

12 V battery: if the multimeter indicates a voltage of 10 V or below, this means that the battery is defective and cannot be charged.

24 V battery: if the multimeter indicates a voltage of 20 V or below, this means that the battery is defective and cannot be charged.

- ▶ Have the battery checked by a specialist, if necessary, or dispose of the battery.

The battery discharges itself after a short time if it is not used

- ▶ Use a suitable multimeter to check the voltage of the battery terminals.

If the multimeter indicates a voltage below 12 V (12 V battery) or 24 V (24 V battery), the battery is too weak to be able to remain charged.

- ▶ Have the battery checked by a specialist, if necessary, or dispose of the battery.

13 Guarantee

The statutory warranty period applies. If the product is defective, please contact the manufacturer's branch in your country (see the back of the instruction manual for the addresses) or your retailer.

For repair and guarantee processing, please include the following documents when you send in the device:

- A copy of the receipt with purchasing date
- A reason for the claim or description of the fault

14 Disposal

- ▶ Place the packaging material in the appropriate recycling waste bins wherever possible.



If you wish to finally dispose of the device, ask your local recycling centre or specialist dealer for details about how to do this in accordance with the applicable disposal regulations.



Protect the environment

Do not dispose of defective batteries in general household waste. Return defective rechargeable batteries/conventional batteries to your retailer or take them to a collection point.

15 Technical data

	WJAECO PerfectCharge		
	IU152A	IU252A	IU154A
Item no.:	2222500001	2222500002	2222500003
Battery connection 1:	starter battery 13,8 V/1 A	starter battery 13,8 V/1 A	starter battery 27,6 V/1 A
Battery connection 2:	13,8 – 14,8 V/15 A	13,8 – 14,8 V	27,6 – 29,6 V
Battery connection 3:	–	Total max. 25 A for both connections	Total max. 15 A for both connections
Input voltage range:	207 – 253 V~ / 50 – 60 Hz		
Final charging voltage:	14.4 V/14.8 V		28.8 V/29.6 V
Trickle charge voltage:	13.8 V		27.6 V
Max. battery capacity:	150 Ah	300 Ah	200 Ah
U0 phase limitation:	8 h or 16 h		
Max. charging current:	15 A	25 A	15 A
Operating temperature range:	0 °C – 50 °C		
Fuse:	T2 A / 250 V	T4 A / 250 V	
Dimensions:	175 x 91 x 310 mm	208 x 96 x 332 mm	
Weight:	3.1 kg	3.8 kg	

	WAECO PerfectCharge	
	IU452A	IU254A
Item no.:	2222500004	2222500005
Battery connection 1:	13,8 – 14,8 V	27,6 – 29,6 V
Battery connection 2:	total max. 45 A for all three connections	total max. 25 A for all three connections
Battery connection 3:		
Input voltage range:	207 – 253 V~ / 50 – 60 Hz	
Final charging voltage:	14.4 V/14.8 V	28.8 V/29.6 V
Trickle charge voltage:	13.8 V	27.6 V
Max. battery capacity:	500 Ah	300 Ah
U0 phase limitation:	8 h or 16 h	
Max. charging current:	45 A	25 A
Operating temperature range:	0 °C – 50 °C	
Fuse:	T6.3 A / 250 V	T6.3 A / 250 V
Dimensions (mm):	208 x 96 x 418 mm	
Weight:	5.5 kg	

Variations, technical improvements and delivery options reserved.

Tests/certificates applied to the IU0U automatic charger:



Product series standard:

- IEC 60950-1:2001 (1st Edition), EN 60950-1: 2001 + A11: 2004

Basic standard:

- EN 55022:2006 Class B
- EN 55024: 1998 + A1: 2001 + A2:2003
- EN 61000-3-2: 2000 + 2005 Class A
- EN 61000-3-3: 1995 + A1: 2001 + A2: 2005

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