

5. Care

! Ensure that there are no dried salt deposits on the contacts of the connector. Salt deposits inhibit the flow of electricity during charging and cause electrical contacts to overheat, resulting in irreparable damage to the contacts or even fires affecting the contacts or cable.

Check the connector for contaminations in the form of sand or salt deposits, and clean if necessary. Remove salt deposits, dirt or sand thoroughly (e.g. with air from a low-pressure hose or with a moist cotton swab).

! Before cleaning the components, ensure that the mains plug has been disconnected from the mains socket. Not doing so may result in electric shock!

Before charging, always dry the connector using a soft, clean cloth and / or cotton swab, and blow the water out of the contacts.

Always check to make sure that the mains cable with mains plug, cable of the connector, connector (in particular the contacts and sealing surfaces) are not damaged in any way.

6. Technical specifications

CE Conforms to Low Voltage Directive 72/23/EEC and EMC Directive 89/336/EEC.

Characteristics

Suitable for use in saltwater air; housing protected from dust and hose-directed water (IP65); open circuit / short circuit proof and protected from overloading, overvoltage and excessive heat

Input

- Input voltage: 100-240 V wide range input (tolerance 85-265 V); 50-60 Hz
- Input current: maximum 10 A
- Input plug: safety plug DIN 49441 (German norm)
- Input cable: weatherproof, flexible; approx. 2.3 m long

Output

- Output voltage: SEABOB F5: 50.8 V (50.6-51.0 V)
- Output current: 14 A
- Output plug: OEM plug
- Output cable: weatherproof, flexible; approx. 2.3 m long

Ambient conditions

- Working temperature: +10 to +40 °C / +50 to +104 °F; do not expose to direct sunlight; excessive heat causes performance reduction relative to temperature
- Storage temperature: -40 to +85 °C / -40 to +185 °F
- Recommended storage temperature: +10 to +25 °C / +50 to +77 °F
- Cooling: convection cooling
- Electrical safety: EN 60950, protection class I, c-CSA-us
- Interference: EN 55011-B, EN 61000-3-2 (harmonic currents)
- Immunity: EN 50082-2

Device body

- Protection rating: IP65
- Housing: closed aluminium housing
- Dimensions (L x W x H): approx. 320 mm x 235 mm x 220 mm
- Weight: approx. 11 kg

LED display

- Yellow LED continuously illuminated: charger ready, no SEABOB connected
- Green LED pulsating: charging
- Green LED continuously illuminated: charging finished
- Red LED flashing: device error, please separate the device from mains socket and try it again

Technical tolerances and changes reserved.

7. Service

For service or repairs, please contact the SEABOB manufacturer or your SEABOB specialist dealer.

CAYAGO
LUXURY SEATOYS

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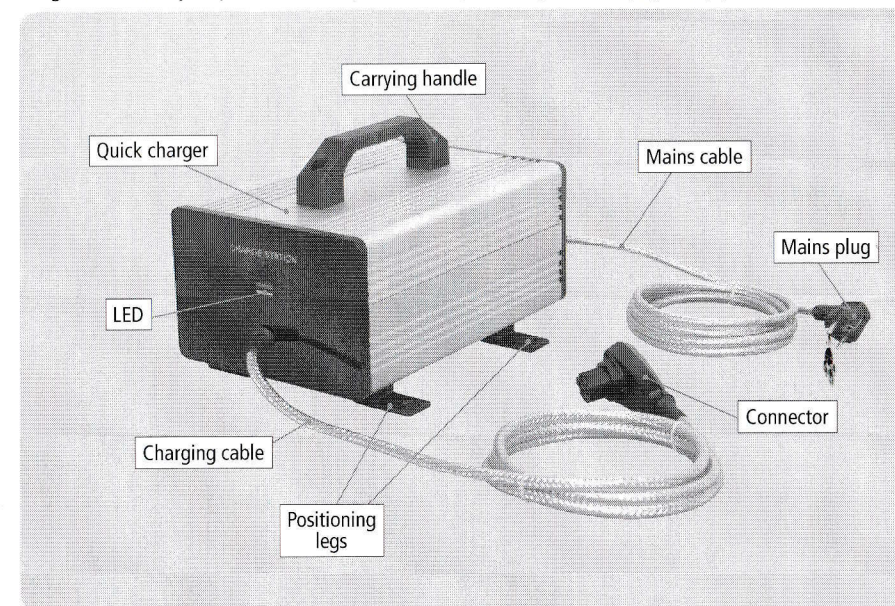
Instructions for Use of the Quick Charger

Introduction

The quick charger was specially developed for use with the SEABOB by CAYAGO AG to significantly reduce the time it takes to charge the accumulator box, greatly increasing the amount of time that the device can be used each day. The quick charger needs only approx. 120 minutes to charge the SEABOB, compared to around 8 hours required by the standard charger.

This performance can only be achieved by exclusively and consistently using high-quality components that are perfectly matched to each other, thus ensuring reliable daily operation.

Congratulations on your purchase of this professional quick charger! We hope you enjoy it!



Note: Adapters with further standardised plugs for use in other countries can be purchased from the SEABOB manufacturer or your SEABOB specialist dealer.

Note: The rubber inserts for the positioning legs can be removed so that the quick charger can be mounted (for example, on a wall).

1. Special safety information

Please pay particular attention to the very important safety information below!



- Important! Observe Operation Manual!
- Do not expose to direct sunlight! Do not open!
- Use only with clean and dry plug connections!
- Never use if cables or plugs are damaged!
- Charge only in dry, cool and well ventilated locations!
- Keep upright! Do not cover! Ensure free air circulation!
- Heats up during charging process! Allow to cool before handling!

2. General safety information



- Never open the charger. All connections and indicator elements required for operation are freely accessible. Repairs on the charger may only be carried out by an authorised technician; otherwise there is danger of severe injury and damage to the SEABOB and charger.
- Never alter or modify any part of the charger. Doing so may result in severe injuries or death.
- Use the charger only for charging the SEABOB of CAYAGO AG.
- Protect the charger, in particular the connector and mains plug from damage, dirt, dust, moisture and heat. Beware! Danger of electric shock!
- Never use the charger if any cables or plugs are damaged. Doing so can cause electric shock, resulting in severe injuries or death.
- To prevent overheating of the charger as a result of insufficient convection, position the charger while charging so that it is upright and resting on a solid surface (on the positioning legs provided). The charger should be placed so that it is minimum 20 cm to other objects, in particular other chargers that are being operated simultaneously.
- Always place the quick charger in the shade. The charger will get hot naturally if exposed to direct sunlight. Caution! Touching hot surfaces may cause burns.
- Never clean the charger while it is plugged in. Doing so may result in electric shock!

3. Operation

To ensure proper use of the device, be sure to read the safety information and the instructions for charging and discharging the SEABOB contained in the comprehensive Operation Manual for the SEABOB by CAYAGO AG.

Improper operation of the quick charger may cause severe injuries or death, or result in considerable damage to property.

The charger is extremely easy to operate, and additional intelligent test routines are carried out to ensure safety. One light-emitting diode (LED display) is used to show the particular activity of the charger.

During the charging process, do not place any objects on the SEABOB or charger to ensure that heat produced during charging is dissipated properly (convection cooling). Ensure that air can circulate freely, and position the quick charger on the provided positioning legs. Should the charger overheat, it automatically reduces the output current to prevent thermal overload. If this happens, the charging process is prolonged accordingly. If the SEABOB is hot, let it cool down before charging.

To charge the SEABOB, proceed as follows:

1. Place the SEABOB on a sturdy and dry surface that will not damage the components.
2. Dry the area around the connection port using a soft, clean cloth.
3. Twist the screw cap from the connection port anticlockwise against a slight resistance and remove the screw cap from the connection port. Check that the inside of the connection port is perfectly clean and dry.
4. Check that the connector is clean and dry, especially the contacts (see Fig. 1).



Fig. 1

5. Ensure that the connector of the charger is positioned correctly before plugging it into the connection port of the SEABOB (the cable of the connector should be pointing to the rear of the SEABOB).

6. Only after this has been done should you plug the mains plug of the charger into the mains socket. The quick charger is designed for a mains voltage of 100-240 V supplied over standard mains sockets. The wide range input of the charger automatically adapts to the supplied mains voltage.



Follow the technical specifications of the charger.



Before starting the charging process, check that the existing house wiring has sufficient fuse protection and electrical installation (sufficient conductor cross-section) which are approved for currents of at least 10 A. In case of doubt, ask a specialist (electrician). In the event of insufficient house wiring (less than 10 A), the high input power of the quick charger may cause a cable fire in the house wiring. Use the standard charger in the event of insufficient fuse protection of the mains (at least 4 A mains fuse required).



If using the charger in other countries, only use the optional available mains cables or travel plugs which are approved for currents of at least 10 A.

7. Please see the Operation Manual for the SEABOB for information on how to select the desired charging process (full charging or partial charging). Charging is performed automatically.

8. To complete the charging process, first pull the mains plug from the mains socket. Never attempt to remove the mains plug by twisting or pulling on the mains cable. Always hold on to the mains plug.

9. Only after this has been done should you disconnect the connector (which is no longer carrying electricity) from the connection port of the SEABOB. Never attempt to remove the connector by twisting or pulling on the cable. Always hold on to the adapter of the connector.



To complete the charging process, first pull the mains plug from the mains socket. Only then should you disconnect the connector from the connection port. Danger of short circuit!



Caution! The charger and connector can get hot while charging. After you have finished charging, let the charger and connector cool down before you touch them.

10. Turn the dry and clean screw cap clockwise into the connection port of the SEABOB, until you feel a slight resistance.

STOP Never plug the connector into a moist or wet connection port for charging. Water, in particular salt water, on the contacts of the connection port or connector may result in strong chemical reactions while charging, causing irreparable damage to the connection port contacts and the connector.

For this reason, you should always check to make sure that the connection port and connector are perfectly clean and dry before plugging the connector into the connection port of the SEABOB. Always put the screw cap back on the connection port immediately after charging is completed. Only open the connection port for the charging process.

Using auxiliary power units / electric generators:

Only electric generators with precise closed-loop control suitable for connection to electronic devices are permissible. Asynchronous generators are not suitable and can result in destruction of the chargers. Furthermore, there is danger of injury in the event of destruction. Use of electric generators with inverter technology is preferred. The continuous power of the generator must be greater than the input power of the charger (see rating plate).

4. Special functions

An intelligent electronic test routine continuously checks the plug connection to the SEABOB to prevent damage to the contacts of the connector and connection port if the plug is defective, wet or connected incorrectly.

The charger automatically switches to trickle-charge after fully charging the SEABOB. This is done to prevent irreparable total discharge of the valuable High-Energy Li-Ion accumulator cells if the SEABOB is not used for extended periods.

The quick charger output is electronically protected from overloading and short circuit. If overloading is detected, the output current is reduced electronically. For safety reasons, the input current is also limited to 10 A.

Note: The charging time of approx. 120 minutes applies for a mains voltage of 230 V. If the input voltage is lower (for example, in the USA or Japan), charging may take longer due to the fact that the input current is limited to 10 A.