



Original user manual for
the charger

MODELS:

- SC130W
- KP240S-40L
- KP400A-40L
- KP900F-4L
- KP1200C-45
- KP900F-45

The manufacturer reserves the right to change the technical specifications of the equipment described in this manual.

The current version of the manual is available for download at www.seacraft.eu

The manufacturer shall not be held responsible for accidents and damage caused by misuse of the product, nor by its use in a manner contrary to or deviating from the rules set forth in this manual.

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About the document

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1.0 INTRODUCTION

The dedicated charger is intended only for recharging the batteries of Seacraft underwater scooters. Before you start charging the battery, please read this user manual carefully and follow it strictly. Keep the operating instructions and proof of purchase in an easily accessible place. The manufacturer reserves the right to change the technical specifications of the device.

2.0 SAFETY RULES AND WARNINGS



The manufacturer is not liable for damages resulting from lack of knowledge of the instructions, improper use of the charger or as a result of its use in a manner inconsistent with or deviating from the principles specified in this user manual.

The product may only be used as intended. The consequences of use other than as intended are the sole responsibility of the user. Use other than as intended may result in damage to the device, electric shock, fire or other serious consequences.

WARNINGS

1. If the charger was transported or stored in environmental conditions that deviate from the permissible operating parameters, it should be allowed to reach the ambient temperature and no condensation in the housing before use. Only use the charger in closed and dry rooms.
2. It is forbidden to use the charger in wet, dusty or too low or too high temperatures.
3. Keep the charger away from liquids and sources of fire.
4. It is prohibited to use the charger with a damaged power cord. A damaged power cord must be replaced.
5. It is forbidden to connect the charger to power sockets without grounding.
6. The use of ungrounded electrical extension cords is prohibited.
7. The electrical circuit to which the charger is connected must be protected with an overcurrent and residual current circuit breaker.
8. It is prohibited to use the charger in a wet or high humidity environment, connect the charger to wet devices or with wet hands. W czasie ładowania kontroluj prawidłowość działania. Zabrania się prowadzenia procesu ładowania w sposób nienadzorowany.
9. It is strictly forbidden to put your hands or any objects into the area of the charger's ventilation grilles. This may result in electric shock.
10. Do not disconnect the wires by pulling the cable, but by holding the plug housing.
11. It is prohibited to use chargers other than those provided by the device manufacturer and dedicated to a given type of battery.
12. The device is intended for use by adults only and should be kept out of the reach of children.
13. It is forbidden to interfere with the design of the loader.
14. It is forbidden to remove the charger casing.
15. It is forbidden to repair a damaged charger by yourself.

LABELS, WARNING AND INFORMATION PICTOGRAMS APPEARING ON THE CHARGER:

	Read the instructions before use! Information on use in the manual!
	Do not overheat! Do not cover the housing!
	Important information! Attention danger!
	Use indoors only.
	Protect from moisture.
	After the period of use, the device must not be placed together with other household waste. The user is obliged to return it to the collection point for used electrical and electronic equipment. Dispose according to instructions!
	Attention, the device is under safe voltage! Be especially careful.
	Product with class I electrical protection. Only connect power sockets to earth.
	The product meets the requirements applicable in the European Union. The manufacturer has issued a declaration of conformity for the charger.

3.0 CHARGER DESCRIPTION

The charger is configured only for a specific battery system and using it with another system may destroy the charger and/or battery and, in particularly unfavorable conditions, lead to explosion, fire and risk to your health and life!

The charger is intended for use in a ventilated, dry and pollution-free environment, in closed rooms.

Model	Max power W	Supply voltage V, AC	Max voltage output V, DC	Max charging current A, DC	Temp. storage and transport °C	Temp. work °C
SC130W	120	100...240V 50-60Hz	37,8	3,5	-15 ... +50	+10 ... +40
KP240S-40L	240	90...132VAC lub 180-255VAC 50-60Hz		6		
KP400A-40L	400	90...132VAC lub 180-255VAC 50-60Hz		10		
KP900F-4L	900	100...260VAC 50-60Hz		20		
KP1200C-45	1200	90...132VAC lub 180-260VAC 50-60Hz	42	25		
KP900F-45	900	90...132VAC 50-60Hz	42	20		

Model	Other work restrictions	Security
SC130W	Humidity <95% without condensation, use only indoors, obligation to keep the working environment dust-free and ensure good ventilation	Overvoltage protection, current protection against overload, short circuit protection, Overheating protection, Reverse polarity protection.
KP240S-40L		
KP400A-40L		
KP900F-4L		
KP1200C-45		
KP900F-45		

LED display:

Diode	LED color	Meaning
LED 1	none	No power to the charger. The charger has not been turned on.
	red	The charger is powered by AC input.
LED 2	green	The battery has not been connected or the battery charging process has completed.
	red	The battery is charging.

4.0 PREPARATION OF THE CHARGER FOR OPERATING

The charger can operate at the input voltage indicated in the table above. Before connecting for the first time, make sure that the given charger model has a power supply voltage selection switch. If it has one, set it to the correct position for your country. Incorrect selection of input voltage may damage the charger. Do not turn the supply voltage selection switch if the charger is connected to the mains. If traveling to another country, make sure the voltage selection switch is correct for that area before connecting the charger to the power supply. The appropriate connection sequence and battery level are the conditions for starting charging. If the charger is moved to a temperature outside the normal operating temperature range, leave the charger for at least 2 hours to equilibrate the temperature.



Incorrect connection of the charger may result in electric shock and damage to the charger.

5.0 CHARGING PROCESS

The charger may be equipped with an AC power switch. After connecting the AC power supply, turn on the charger's power supply using this switch. The AC power supply status should be indicated by the red LED1. Sequence of actions:

1. Plug the charger into the power socket.
2. Turn on the charger with the power switch, if it has one.
3. After approximately 30 seconds, connect the battery to the output voltage connector. Any other sequence may not start the charging process.
4. Starting to charge the battery will change the color of LED 2 from red to green. During charging, the color of LED 2 may temporarily change from green to red. During this time, an automatic test of the battery charging status takes place.
5. When charging is completed, LED 2 will change from green to red. It means that the battery has reached 100% of its capacity.
6. After charging is complete, disconnect the battery.
7. Turn off the charger power.
8. Disconnect the charger by removing the power plug from the power socket.



- The charger has built-in temperature protection. During the charging process, do not cover the charger or the fan and ensure free air flow around the charger by maintaining a distance of at least 0.2 meters on the sides and top of the device.
- In the first few seconds after connecting the battery, the battery is tested. Charging will not start if the charger detects any incompatibility.
- Please remember that 80% battery charge is achieved much faster than 100%. Not using the full charging range increases the durability of lithium batteries. Not discharging the battery reduces its capacity and increases its durability.
- Do not leave the charger connected to the power supply if you are not charging the batteries.

6.0 TROUBLESHOOTING

- If the internal temperature exceeds 75C, the charging process will be interrupted. To restart it, it is necessary to cool down the charger and repeat the sequence from Chapter 5.
- If charging is interrupted for any reason, turn off the charger, disconnect it from the battery and disconnect it from the mains, and then repeat the process after about 30 seconds, in accordance with Chapter 5.
- If the charging process takes longer than usual and LED2 changes to green, it may mean that the charging process is not working properly and should not be continued without identifying the cause of the problem. If in doubt, contact the manufacturer's service.
- If the battery is discharged below the permissible voltage (End-Voltage), the charger may not start charging.
- If the charger is not working properly, check the list below:
 - Are the charger and battery properly connected?
 - Is the voltage range of the charger and battery correct?
 - Is the charger overheated? Is the battery overly discharged?

After analyzing the problem and fixing it, the charger should be replaced. Disconnect the charger from the battery and the mains supply for 30 seconds, then repeat the switch-on sequence. If the problem still occurs, please contact your supplier.

7.0 MAINTENANCE

- Maintain the overall cleanliness of the device. For cleaning, do not use running water or other liquids. You can use damp cloths to wipe the surface with products intended for cleaning electrical equipment.
- To maintain the long life of the electrolytic capacitors, the charger must be connected every two months for at least 10 minutes.

8.0 WARRANTY AND WARRANTY SERVICE

Each charger is covered by a 12-month warranty. The warranty will be void in any of the following situations:

1. The product is damaged, reconstructed and/or altered by unauthorized persons.
2. The product is damaged due to improper use or maintenance.
3. The lot number (LOT) on the rating plate has been erased and is illegible.
4. The product is damaged due to flooding or mechanical damage.

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