SEACRAFT
MADE TO EXPLORE

POWER CONVERTER
USER MANUAL

FUTURE | GHOST
01.06.2021

Disclaimer

Marine Tech makes no representations, warranties or guarantees, express or implied, as to the accuracy or completeness of the manual. Users must be aware that updates and amendments will be made from time to time to the manual. It is the user’s responsibility to determine whether there have been any such updates or amendments. Marine Tech nor any of their directors, officers, employees or agents shall be liable in contract, tort or in any other manner whatsoever to any person for any loss, damage, injury, liability, cost or expense of any nature, including without limitation incidental, special, direct or consequential damages arising out of or in connection with the use of the manual.

Marine Tech accepts no liability for damages and/or injuries caused by improper use of the Seacraft scooter as well as a result of its use in a manner contrary to or deviating from principles set out in this manual.

Marine Tech accepts no liability for accidents and damage resulting from incorrect use of the scooter resulting from failure to read the scooter manual or lack of knowledge on the content of labels and pictograms, warning and information signs.

Marine Tech accepts no liability for damages and/or injuries caused by defects or improper handling of external devices connected to the scooter.

This manual is no substitute for a proper training in how to dive with an underwater scooter.

Should you have any questions or comments regarding this manual, please contact:

MANUFACTURER

MARINE TECH SA
ul. Żwirki i Wigury
17 38-400 Krosno
Poland

Email: info@seacraft.eu
Web: www.seacraft.eu

Local Distribution

The local (translated) version of this manual is made available by the responsible distributor. Please check the Marine Tech website for your local distributor.

Document Information

Title:	Seacraft Power Converter Manual
Version:	v1.0
Language:	English
Publication Date:	01.06.2021

Table of contents

1. INTRODUCTION

CONGRATULATIONS!

By choosing the optional Seacraft power converter for your scooter, you will benefit from additional flexibility and power for your external devices, as 12V light systems (as Seacraft SLS2),12V heating systems, or other compatible devices.

In the following sections, all aspects of the optional Seacraft power converter will be explained.

Should you have any questions regarding this accessory, or should you require support, please see Seacraft support website: www.support.seacraft.eu.

2. General Safety Rules

Please note, that the Seacraft power converter was developed as a comfort add-on to your Seacraft scooter. Please treat it as such and observe the following:

Caution!

Only use compatible external devices (6-12 V, max. 140 W / 12 A).

Caution!

Make sure, the power converter adapter cable and the cable of your external device are securly attached to the scooter, in order not to get into the scooter's propeller.

Caution!

Please do not use the power converter as the only power supply for your external devices. When you plan your dive, provide for redundant power supply, in order to be able to switch to a backup, if a component should fail.

Caution!

Take into account your power requirements in relation to the distance to be covered with the scooter during your dive.

Plan for ample power reserves, and during the dive, regularly check the remaining runtime and battery capacity.

3. USING THE POWER CONVERTER

3.1. GENERAL

The Secraft power converter is an optional accessory, that may be ordered with any new Seacraft scooter model FUTURE or GHOST or retrofit to scooters from serial number 129 on.

NOTE!

Retrofitting a scooter with the power converter requires that DPV is equipped with hermetic charging port.

Please note that the presence of a hermetic charging port does not necessarily mean, that there is a power converter installed.

Look out for the e/o cord symbol in the scooter's main screen. It tells you, that the scooter is equipped with a power converter.

The power converter is integrated into the scooter's electronic compartment and converts the battery voltage down to 6-12 V.

You can choose during the dive between 5 levels of voltage output, tuned to correspond with 20%, 40%, 60%, 80% and 100% heating power of 12V systems.

It corresponds with voltage steps of 6.0V, 7.5V, 9.4V, 10,7V, 12V.

Power converter adapter cable

You may connect external devices to the power converter by means of the included adapter cable (70 cm, from the DPV's charging port to standard e/o):

Caution!

Only connect compatible external devices to the power converter:

- Operating voltage: 6-12 V
- Max. power drain: 140 W
- Max. current: 12 A

The power converter is connectred to the scooter's safety circuits and protects the battery from excessive power drain, short circuits, surges etc. but please note, that the manufacturer accepts no liability for damages to the scooter caused by improper or faulty external devices connected to the scooter.

The power transferred via the power converter may be controlled via the scooter's control display (see next section).

3.2. Connecting and controlling an external device

Proceed as follows, in order to connect and use an external device with your Seacraft scooter.

1. Select a device matching the technical specifications.
   This could be a drysuit heating system, a hand-held or fixed light (e. g. Seacraft SLS2).
2. If required, securely mount the device to the scooter.
3. Remove the scooter's charging port plug and store it for later use.
4. Make sure, the scooter is switched off, and connect the charging port adapter cable to the scooter's hermetic charging port, and screw it in hand-tight.

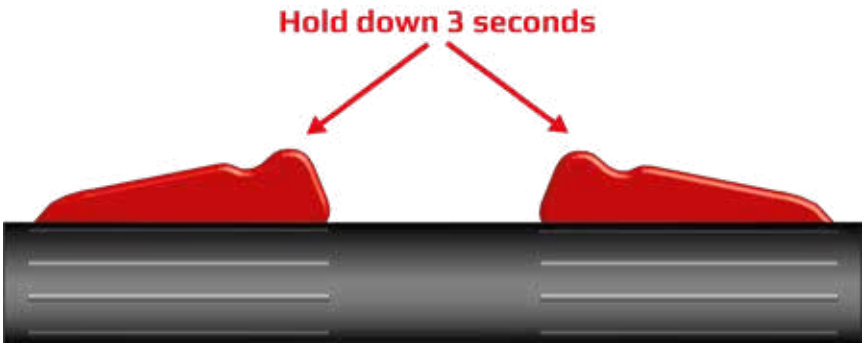
Caution!

Make sure that adapter is correctly aligned, and pressed gently into the charging port while screwing in. In case of wrong angle, and force usage it is possible to irreversibly damage the thread of adapter.

6. Attach the adapter cable securely to the scooter, and connect it to the external device.
   Ensure that there is no possibility of swallowing t

Adapter cable secured to the scooter (used for Seacraft SLS2 light system)

7. Switch on the scooter by turning the main switch by 90 °.
8. While in gear 0, hold both triggers pressed for 3 seconds, until the power converter control screen is displayed:



Power converter control screen

9. You may now select the desired power output in steps of 20 %, by pressing the upper or lower piezo button on the scooter's control display.

NOTE!

Your external device might require a certain minimum voltage to be activated, so check, on which displayed power level your device will be switched on.

10. Press any of the triggers shortly, or wait 5s in order to return to the standard screen.

NOTE!

If you would like to change the power output during the dive, simply carry out steps 7 to 9.

3.3. Troubleshooting

Should the external device powered by the scooter's battery not work as expected, proceed as follows to determine the problem:

1. Check, if the scooter is switched on and working normally.
2. Check, if the external device meets the technical specifications to be powered by the scooter.
3. Switch to the power converter control screen, and check if a power level has been set. If yes, try to change the power level to the maximum setting.
4. Check the e/o connection to the external device.
5. Check, if the adapter cable is correctly plugged in and secured.
6. Check, if the external device needs to be switched on separately.
7. Check the cable connection(s) of the external device.
8. Check, if the external device works with a different power source (e. g. battery tank).
9. Connect a different external device to the scooter, and check if it works.

If non of the above steps is successful, please visit the Seacraft support website

www.support.seacraft.eu

Use the contact form, or create a service ticket, so we can help you to solve the problem.