Keep this manual onboard!

SLEIPNER
Ocean born. Tech bred.

User Manual

Including Installation For Proportional Power Control

PPC520, PPC820, PPC 840

SLEIPNER AS
P.O. Box 519
N-1612 Fredrikstad
Norway
www.sleipnergroup.com

DOCUMENT ID: 6752
REVISION: 2
DATE: 2021
LANGUAGE: EN
UM

To download your language go to www.sleipnergroup.com

Contents

DECLARATION OF CONFORMITY

MC_0020

CE

Sleipner Motor AS
P.O. Box 519, Arne Svendsensgt. 6-8
N-1612 Fredrikstad, Norway

Declare that this product with accompanying standard control systems complies with the essential health and safety requirements according to:

DIRECTIVE 2013/53/EU
DIRECTIVE 2014/30/EU
DIRECTIVE 2014/35/EU

It is the installers responsibility

When installing Sleipner equipment follow the outlined regulations/ classification rules (electrical/ mechanical) according to international or special national regulations. Instructions in this guide cannot be guaranteed to comply with global electric/ mechanic regulations/ classification rules.

Follow all health and safety laws in accordance with their local outlined regulations/ classification rules.

Before installation, it is important that the installer reads this guide to ensure necessary acquaintance with the product.

The recommendations made in this manual are guidelines ONLY, and Sleipner Motor AS (Sleipner) strongly recommend that before installation, advice is obtained from a naval architect familiar with the particular vessel and regulations/ classifications. This manual is intended to support educated/ experienced staff and is therefore not sufficient in all details for professional installation. *(NB: These instructions are only general instruction. If you are not skilled to do this work, please contact professional installers for assistance.)*

All electrical work must be done by a licensed professional.

Faulty installation of Sleipner products will render all warranty given by Sleipner Motor AS void. MC_0038

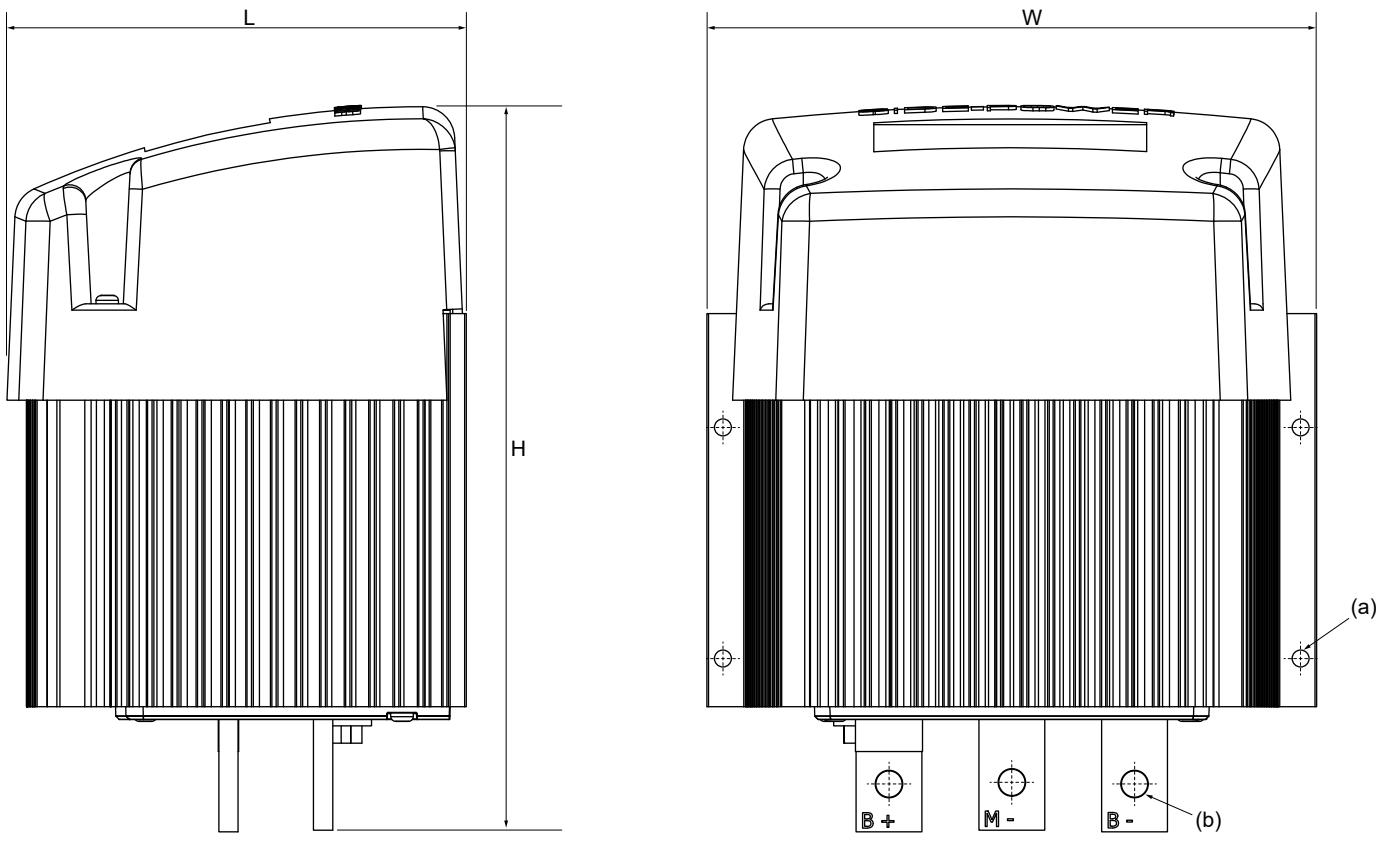
EN Considerations and Precautions MC_0105

IMPORTANT

If installing S-link products DO NOT connect any other control equipment to the S-link controlled products except Sleipner original S-link products or via a Sleipner supplied interface product made for interfacing with other controls. Any attempt to directly control or at all connect into the S-link control system without the designated and approved interface will render all warranties and responsibilities for the complete line of Sleipner products connected void and null. If you are interfacing by agreement with Sleipner and through a designated Sleipner supplied interface, you are still required to also install at least one original Sleipner control panel to enable efficient troubleshooting if necessary.

EN PPC Considerations and Precautions MC_0342

- The PPC Power control unit should be installed in a dry, ventilated place - cable connections facing down. Mount unit with battery positive cable branching out at unit terminal, not at thruster motor. Allow free space at min 200mm over, 150mm under and min. 100mm in front and at sides. Take into consideration that a 5m multi-cable shall be plugged in between thruster motor and PPC unit.



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PPC Measurements

MC_0340

Measurement code	Measurement description	*520	
		mm	inch
H	PPC Height	226	8.9
W	PPC width	190	7.5
L	PPC length	143	5.6
(a)	Minimum tunnel length	5.3	0.2
(b)	Recommended tunnel length	8.6	0.3

EN Technical Specifications

MC_0343

Supply Voltage: 9 - 31V (PPC 520 & PPC 820)
36 - 36V (PPC 840)

Output Voltage: 20-100% x Vbatt

Output Current: Max. 1000A (PPC 820)
Max. 500A (PPC 520)
MAX. 550A (PPC 840)

Regulation: PWM, S-Link controlled

Protection: Thermal, under-voltage, over-current.

Safety features: - The PPC Speed Control unit will turn off motor power each time the main solenoids are activated. This removes any possibility for solenoid lock-in. Any fault in the main solenoids will give feedback to the panel and turn off power to the electric motor.

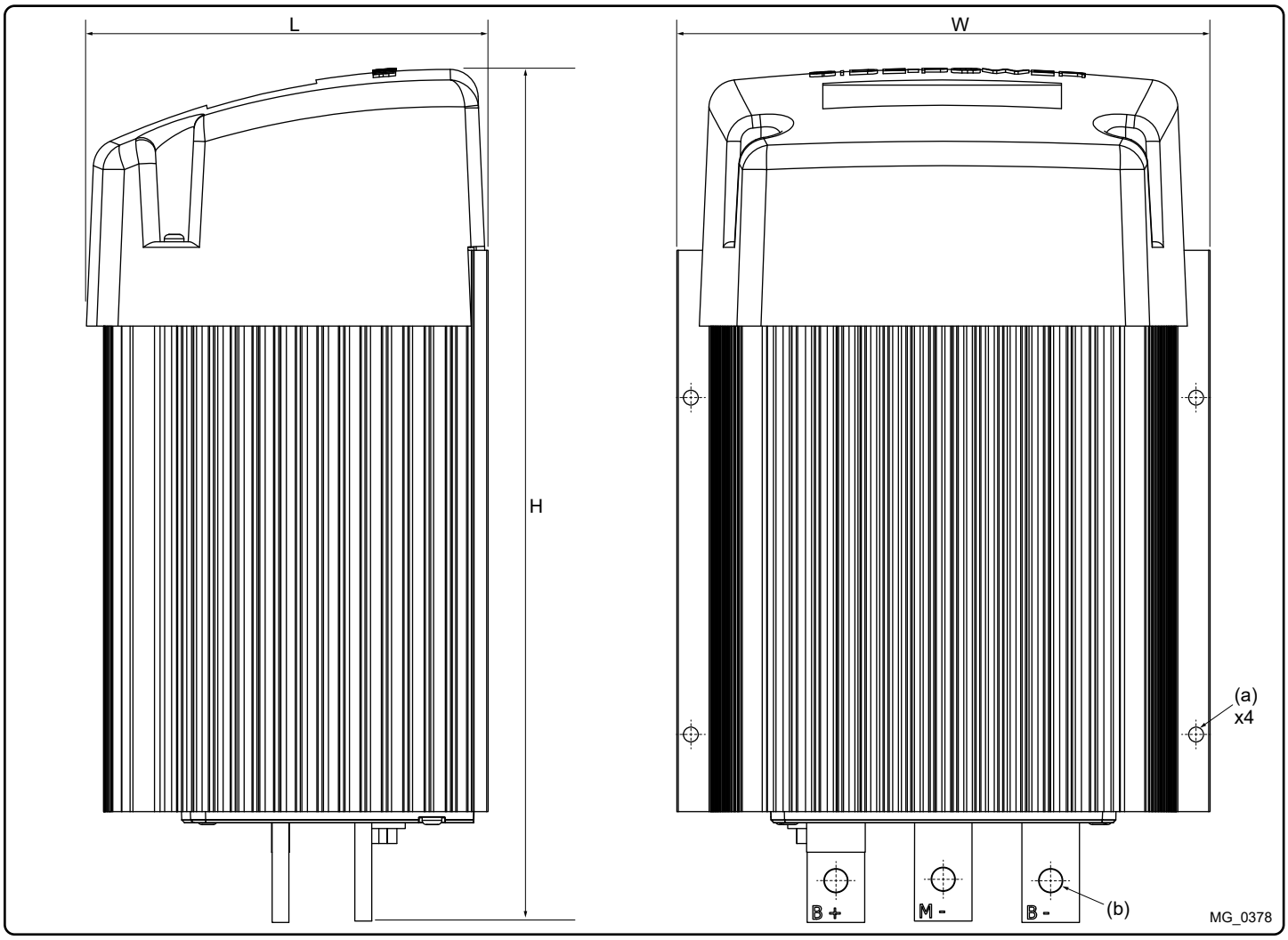
EN PPC Specifications

MC_0344

Description	* 520
Available DC System (v)	12v & 24v
Thrust 12v (kg * lbs)	40kg* 88.2lbs - 60kg* 132lbs
Thrust 24v (kg * lbs)	60kg* 132lbs - 130kg* 284lbs
Max Output Current	500A

Compatible Products: **(PPC 520)**

SEP	**SRP**	**SXP**
SEP 40	SRP (V&L) 80	SXP 80
SEP 50	SRP (V&L) 100	SXP 100
SEP 60	SRP (V&L) 130	
SEP 80		
SEP 100		
SEP 120		
SEP 130		



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PPC Measurements

MC_0341

Measurement code	Measurement description	*820		*840	
		mm	inch	mm	inch
H	PPC Height	304	12	304	12
W	PPC width	190	7.5	190	7.5
L	PPC length	143	5.6	143	5.6
(a)	Minimum tunnel length	5.3	0.2	5.3	0.2
(b)	Recommended tunnel length	8.6	0.3	8.6	0.3

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Technical Specifications

MC_0343

Supply Voltage: 9 - 31V (PPC 520 & PPC 820)
36 - 36V (PPC 840)

Output Voltage: 20-100% x Vbatt

Output Current: Max. 1000A (PPC 820)
Max. 500A (PPC 520)
MAX. 550A (PPC 840)

Regulation: PWM, S-Link controlled

Protection: Thermal, under-voltage, over-current.

Safety features: - The PPC Speed Control unit will turn off motor power each time the main solenoids are activated. This removes any possibility for solenoid lock-in. Any fault in the main solenoids will give feedback to the panel and turn off power to the electric motor.

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PPC Specifications

MC_0345

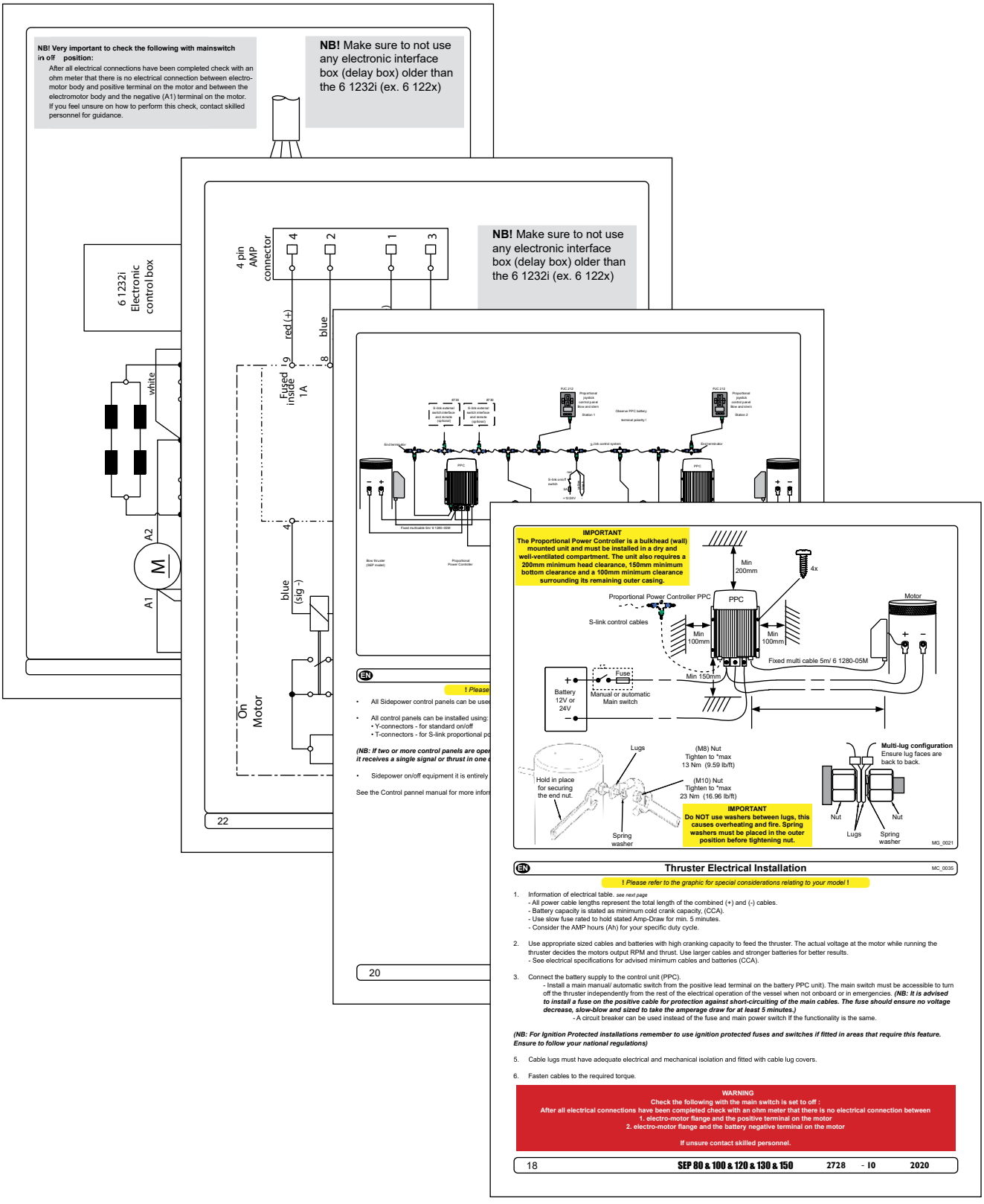
Description	* 820	* 840
Available DC System (v)	12v & 24v	48v
Thrust 12v (kg * lbs)	80kg* 176lbs - 130kg* 284lbs	-
Thrust 24v (kg * lbs)	150kg* 330lbs - 170kg* 375lbs	-
Thrust 48v (kg * lbs)	-	285kg* 628lbs
Max Output Current	1000A	550A

Compatible Products: (**PPC 820)**

SEP	**SRP**	**SXP**
SEP 80	SRP (V&L) 80	SXP 80
SEP 100	SRP (V&L) 100	SXP 100
SEP 130	SRP (V&L) 130	
SEP 150	SRP (V&L) 170	
SEP 170		
SEP 210		
SEP 240		

(PPC 840)
SEP
SEP 285

See the thruster manual supplied for the electrical installation



MG_0379

Note Type, Location and Serial Numbers

Fill in the type, location and serial numbers of the S-link devices installed.
Keeping this as a reference will make the setup procedure easier!

S-link device	Location	Serial number
(ie Thruster, AMS, PPC etc)	(Bow, Bow-STB, Stern, Stern-STB)	

Find your local professional dealer from our certified worldwide network for expert service and support.

visit our website www.sleipnergroup.com/support

For additional supporting documentation, we advise you to visit our website www.sleipnergroup.com and find your Sleipner product.

EN Warranty statement MC_0024

1. Sleipner Motor AS (The "Warrantor") warrants that the equipment (parts, materials and embedded software of products) manufactured by the Warrantor is free from defects in workmanship and materials for the purpose for which the equipment is intended and under normal use and service (the "Warranty").
2. This Warranty is in effect for two years (Leisure Use) or one year (Commercial and other Non-leisure Use) from the date of purchase by the end user (for demonstration vessels, the dealer is deemed as end user).
3. This Warranty is transferable and covers the equipment for the specified warranty period.
4. The warranty does not apply to defects or damages caused by faulty installation or hook-up, abuse or misuse of the equipment including exposure to excessive heat, salt or fresh water spray, or water immersion except for equipment specifically designed as waterproof.
5. In case the equipment seems to be defective, the warranty holder (the "Claimant") must do the following to make a claim:
   (a) Contact the dealer or service centre where the equipment was purchased and make the claim. Alternatively, the Claimant can make the claim to a dealer or service centre found at www.sleipnergroup.com. The Claimant must present a detailed written statement of the nature and circumstances of the defect, to the best of the Claimant's knowledge, including product identification and serial nbr., the date and place of purchase and the name and address of the installer. Proof of purchase date should be included with the claim, to verify that the warranty period has not expired;
   (b) Make the equipment available for troubleshooting and repair, with direct and workable access, including dismantling of furnishings or similar, if any, either at the premises of the Warrantor or an authorised service representative approved by the Warrantor. Equipment can only be returned to the Warrantor or an authorised service representative for repair following a pre-approval by the Warrantor's Help Desk and if so, with the Return Authorisation Number visible postage/shipping prepaid and at the expense of the Claimant.
6. Examination and handling of the warranty claim:
   (a) If upon the Warrantor's or authorised service Representative's examination, the defect is determined to result from defective material or workmanship in the warranty period, the equipment will be repaired or replaced at the Warrantor's option without charge, and returned to the Purchaser at the Warrantor's expense. If, on the other hand, the claim is determined to result from circumstances such as described in section 4 above or a result of wear and tear exceeding that for which the equipment is intended (e.g. commercial use of equipment intended for leisure use), the costs for the troubleshooting and repair shall be borne by the Claimant;
   (b) No refund of the purchase price will be granted to the Claimant, unless the Warrantor is unable to remedy the defect after having a reasonable number of opportunities to do so. In the event that attempts to remedy the defect have failed, the Claimant may claim a refund of the purchase price, provided that the Claimant submits a statement in writing from a professional boating equipment supplier that the installation instructions of the Installation and Operation Manual have been complied with and that the defect remains.
7. Warranty service shall be performed only by the Warrantor, or an authorised service representative, and any attempt to remedy the defect by anyone else shall render this warranty void.
8. No other warranty is given beyond those described above, implied or otherwise, including any implied warranty of merchantability, fitness for a particular purpose other than the purpose for which the equipment is intended, and any other obligations on the part of the Warrantor or its employees and representatives.
9. There shall be no responsibility or liability whatsoever on the part of the Warrantor or its employees and representatives based on this Warranty for injury to any person or persons, or damage to property, loss of income or profit, or any other incidental, consequential or resulting damage or cost claimed to have been incurred through the use or sale of the equipment, including any possible failure or malfunction of the equipment or damages arising from collision with other vessels or objects.
10. This warranty gives you specific legal rights, and you may also have other rights which vary from country to country.

EN Patents MC_0024

At Sleipner we continually reinvest to develop and offer the latest technology in marine advancements. To see the many unique designs we have patented visit our website www.sleipnergroup.com/patents

Register your product and learn more at www.sleipnergroup.com

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SLEIPNER AS
P.O. Box 519
N-1612 Fredrikstad
Norway
www.sleipnergroup.com

Made in Norway CE

MC_0030