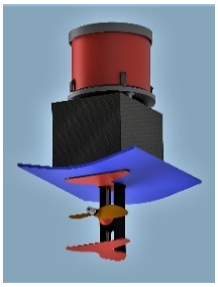
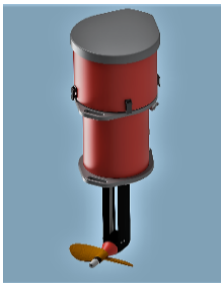
Technical Specifications Navigaflex IN and OUTBOARD

- One concept and dimension for the IN- and OUTBOARD configuration
- A retractable (380mm) and rotating (360°) motorized propeller
- A standard motor with the power of 4 KW (8HP)
- A "booster" to double the power to 8 KW (16 HP) during 2 minutes
- Three options of motorization of 6,8,10,15 KW (12,16,20,30 HP) continuously
- An option to configure the INBOARD motor
- An option to configure the OUTBOARD motor
- An option to regenerate the current under sails
- An option of assisted steering
- An option steering with GPS
- An option dynamic anchorage with GPS positioning
- An option 4G via mobile phone and PC diagnosis and maintenance at distance
- An option to choose colours and decorations (Custom)





Motor specifications	**Unit**	**Standard**	**Options**		
Nominal power (Continously)	KW	**4**	**6**	**8**	**10**
Equivalence of a fuel engine	HP	8	12	16	20
Maximal power with booster during 2min (depending on propeller choice)	KW	**8**	**12**	**16**	**20**
Equivalence of a fuel engine (maximum duration 2min)	HP	16	24	32	40
Speed of main motor continously	RPM	3200	3200	3200	3200
Maximum speed with booster during 2min (depending on propeller choice)	RPM	5000	5000	5000	5000
Voltage	Volt	48	48	48	48
Amperes (Continously)	Amp	80	120	160	200
Amperes with booster max. 2mm (depending on propeller choice)	Amp	240	280	280	300
Voltage operation of main motor	Volt	48	48	48	48
Measurements		**INBOARD**		**OUTBOARD**	
Power	KW	4	6	8	10
Configuration INBOARD et OUTBOARD (IN/OUT)		IN/OUT	IN/OUT	IN/OUT	IN/OUT
Weight (production series 0), a study is in progress to reduce the weight by 30%)	Kg	42/38	42/38	42/38	50/46
Length of arm (Distance between fairing and axis of propeller)	Mm	180		440	
Standard propeller arm length between max. up and max. down position	Mm	380		380	
Propeller rotation	Degree	360°		360°	
Congestion with retracted arm	Mm	Dia. 430 x 830		Dia. 450 x 870	
Congestion with extended arm	Mm	Dia. 430 x 1210		Dia.450x1250	
Congestion motor shaft	Mm	410 x 350 x 413		Without	
Max. propeller diameter (with diameter 25 conical 1/10)	Mm/"	305 / 13" (3 blades)		356 / 14"	
Output and autonomy		**Descriptions**			
Output of electric motor		Up to 90 % depending on use			
Global output at 1000 RPM (With a propeller and transmission loss of 25%)		Up to 65 % depending on use			
Autonomy in calm weather (Autonomy 40 km)		4 hours (20% nominal power)			
Autonomy in stormy weather recommended on our lakes		1 hour (70% nominal power)			
Autonomy in KW/hour of battery park/set (48V) (Autonomy 40km)		(1x) nominal power of propellant			
Weight of lead batteries (Park/set 48V)		24 kg per KW/Hour			
Weight of batteries LiFeP04		12kg per KW/hour			
Functionalities		**Descriptions**			
Control of energy consumption (Watts, amperes, % battery)		With display			
Management of orientation and speed control		With joystick and electronic steering wheel			
Connection between joystick and controller placed under the motor bonnet		Wires			
Connection		Plug and play			
Speed variator	KW	4	6	8	10
Voltage speed variator	Volt	48V	48V	48V	48V
Max. current continously	Amp	80	120	160	200
Max. current with booster (maximum duration 2 min)	Amp	240	280	280	450
Site		Under the motor bonnet			
Hydrogenerator under sails or at anchor in water with currents		Custom-built			
Operation parameters		Custom-built			
Max. temperature control of motor		Max. temperature = power reduction			
Control of joystick positioning at ignition		Power circuit breaker non active			
Reverser		With power joystick (Forward/Backward)			
Save energy stop		Automatically after 5min			
Electronic key		Engagement of variator			
Motors of various functions		**Specifications**			
Voltage of motors (Retraction and rotation of the propeller)	Volt	24	24	24	24
Power of motors (Retraction and rotation)	Watt	57	57	57	57
(2x) ventilators (2x114 m3/hour)	Watt	(2x) 5.5	(2x) 5.5	(2x) 5.5	(2x) 5.5
Material		**Treatment and finish**			
Steel parts (in the water)		Stainless steel for maritime environment (316)			
Steel part (out of the water)		Stainless steel for maritime environment (316)			
Aluminum part (out of the water)		Anodized natural or hard			
Bonnet and fairing in PVC		PVC car paint standard colour			
Lid & upper and lower disc		PVC car paint standard colour			
Propeller arm in PET-P		UV-resistant			