Product Specifications SE 100/185 T

The SE 100/185T replaces the SP95Ti as the most powerful thruster available in the popular ø185mm tunnel diameter and is thereby the optimal thruster for boats where a maximum thrust in a compact tunnel is necessary.

*The **SE100/185T** includes all the important and unique **Side-Power** features and qualities - **why settle for less**.*

Easy and safe to install:

- *Easy access terminals for easy, fast and safe fitting of main battery cables (as opposed to having to fit directly onto "crowded" solenoid studs. Own by overheat sensor in motor.*
- *Plug and go control wiring.*
- *Fast, easy and safe fitting of propeller with lock-nut as opposed to difficult and un-reliable set-screw fastening.*
- *Self aligning drilling template available for OEM customers.*

Description:

Typical boat size	40 - 56 foot (see back for more info)
Tunnel inside diameter	185mm/7,3" (see back for more measurements)
Propulsion system	Twin
Available for DCsystem	12V or 24V
Weight	31kg/68lbs.

Gearleg:

- Seawater resistant bronce, CNC machined in one process to ensure 100% correct tolerances, angles and measurements.
- Sealed gearleg with long-life "mechanical" seal where polished ceramic and carbon surfaces form the only moving sealing surfaces, ensuring protection against damaging water intrusion into gear leg.
- Lifetime lubricated with special gear-oil.
- Hardened and ground precision spiro-conical gears.
- Propeller shaft with double ball bearings fitted in correct tolerances.
- Driveshaft with ball bearing and special sleeve bearing in correct tolerances.
- Connection between motor and driveshaft by flexible coupler
- 5 bladed composite "Q-prop" propeller, skewback design.
- Zinc anode protection directly on gearleg, easy to access and change.
- Gearleg galvanically insulated from bracket/motor

Performance and specifications at one tunnel diameter depth* :

	At 10,5V/21V	**At 12,0V/24V**
Thrust	100kg/220lbs.	< 116kg/256lbs.
Output power	6.3kW/8,4 Hp	< 7,8kW/10,5Hp
Average current draw	740A/340A	< 820A/375A
Continous run time (20^{0}C)	3 min.	> 2,5 min.
Approx. long term run time	10% of time	6% of time
Min. battery CCA rating 12V/24V	750/400 CCA DIN -	1425/760 CCA SAE
Sidepower fuse size:		ANL500/ANL325

Safety features on thruster (see separate sheet for control panels):

- Forced shut-down by overheat sensor in motor
- All internal leads with extra insulation of webbed silicon increase resistance to heat and mechanical wear. Connectors have positive locking so that you have to pull by the insulator to release, can not be pulled off by the wires or loosen by themselves. Self extinguishing solenoid cover.
- IPC Standard electronic control box for protection against:
  - direct drive direction change
  - unique, patented protection of solenoid from extra wear and damages in low voltage situations for example caused by drained or damaged batteries as well as "auto-stop" without the need for the skipper to shut down the main switch immediately to stop the thruster in case of a solenoid lock-in**
  - auto-stop if control signal is continous for more than 3 minutes to protect against potential short circuit in control cables.

Notes !

* Actual performances, current consumption etc. will vary for each installation depending on many factors. Spesifications here given at one tunnel diameter depth and with voltage at thruster as shown. If you install deeper the thrust will be more as well as the current consumption, and the running time will be reduced. Electromotors power and afficiency tolerances are +/- 6%.

** Patented safety features in the thruster controlbox.

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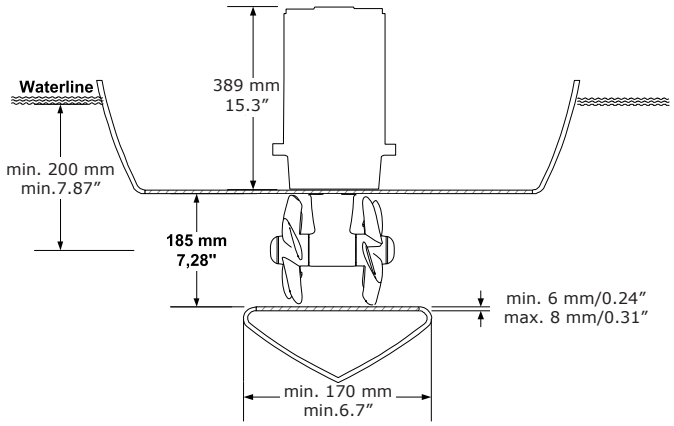
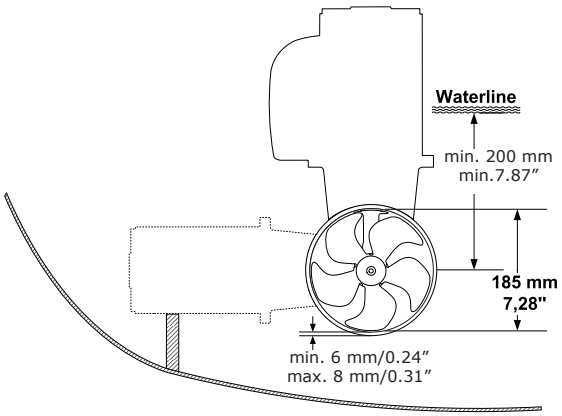
Installation planning





Battery & cable recommendations:

Model	Voltage	Nominal current draw	Min. battery CCA		>7m total + & -		7-14m total + & -		15-21m total + & -		22-28m total + & -		28-35m total + & -		36-45m total + & -	
					Min.	Rec.	Min.	Rec.	Min.	Rec.	Min.	Rec.	Min.	Rec.	Min.	Rec.
SE100/185T	12 V	740 A	DIN: 750 SAE: 1425	mm^2 AWG	95 3/0	95 3/0	2x 70 2x 2/0	2x 95 2x 3/0	2x 95 2x 3/0	*280**	*250**	*375**	NA	NA	NA	NA
	24 V	340 A	DIN: 400 SAE: 760	mm^2 AWG	35 1	50 1/0	50 1/0	70 2/0	60 2/0	95 3/0	95 3/0	120 4/0	120 4/0	2x 95 2x 3/0	2x95 2x 3/0	2x 120 2x 4/0

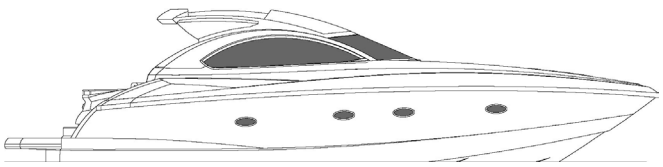
Minimum and recommended cable dimensions can be identical due to safety margins and cable heat considerations for short cable lenghts.

* Minimum or recommended cable cross section in mm^2

Typical boat sizes:

SE100/185T push the bow against a direct sidewind of approximately:

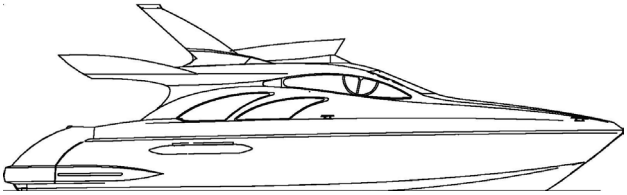
Sunseeker Portofino 47 - 22,9 knots



Fairline Phantom 48 - 20,8 knots

GB Eastbay 49 HX - 23 knots

Azimut 50 - 21 knots



This document may contain typographical errors, to which Sleipner Motor assumes no responsibility.

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