## PRODUCT SPECIFICATIONS SE 60/185 S



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Thrusters are not only helpful for large yachts, typically a light weight boat with a single outboard or sterndrive are even more difficult and stressful to handle in tight spots than larger yachts that are less effected by the wind.

With its outstanding energy efficiency and unrivalled reliability, the **SE 60/185 S** is the prefect successor to the "classic" and best selling SP55Si and 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 unreliable set-screw fastening.
- Self aligning drilling template available for OEM customers.

#### **Description:**

Typical boat size Tunnel inside diameter Propulsion system Available for DCsystem Weight

29 - 38 foot (see back for more info) 185mm/7,3" (see back for more measurements) Single 5bl composite Q-prop 12V or 24V 16kg/35lbs.

#### Gearleg:

- Seawater resistant bronze, CNC machined in one process to ensure 100% correct tolerances, angles and measurements.
- Sealed gear leg 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 shear-pin, changable from
- inside the boat.
- 5 bladed composite "Q-prop" propeller, skewback design.
- Zinc anode protection directly on gearleg, easy to access and change.

#### Performance and specifications at one tunnel diameter depth\* : At 10.5V/21V At 12.0V/24V

		AC 12/01/211
Thrust	60kg/132lbs.	< 73kg/161lbs.
Dutput power	3,1 kW/4 Hp	< 3,6kW/4,7Hp
Average current draw	340A/160A	< 385A/185A
Continous run time (20ºC)	3 min.	> 2 min 40sec.
Approx. long term run time	12% of time	8% of time
Min. battery CCA rating 12V/24V	350/175 CCA DIN	- 665/332 CCA SAE
Sidepower fuse size:		ANL250/ANL150

#### 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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**SIDE-POWER** Thruster systems

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Battery & cable recommendations:

Model	Voltage	Nominal	Min. battery CCA	Vin. battery		>7m total + & -		7-14m total + & -		15-21m total + & -		22-28m total + & -		28-35m total + & -		36-45m total + & -	
		draw			Min.	Rec.	Min.	Rec.	Min.	Rec.	Min.	Rec.	Min.	Rec.	Min.	Rec.	
SE60/185S	12 V	340 A	DIN: 350 SAE:665	mm <sup>2</sup> AWG	35 1	50 1/0	60 2/0	95 3/0	95 3/0	2x 70 2x 2/0	120 4/0	2x95 2x 3/0	2x 95 2x 3/0	2x120 2x 4/0	2x120 2x 4/0	280*	
	24 V	170 A	DIN: 175 SAE: 332	mm <sup>2</sup> AWG	25 1	35 1	25 1	35 1	25 1	35 1	35 1	50 1/0	50 1/0	60 2/0	60 2/0	70 2/0	

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

**Typical boat sizes:** SE60/185S push the bow against a direct sidewind of approximately:

VILLET OF TOOL

SeaRay 340 Sundancer - 21,7 knots.

Bavaria 36 - 19,8 knots.



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

Fairline Targa 34 - 20,5 knots.

Mainship 30 Pilot - 22,6 knots.





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