

# Product Specifications SP 55 S2i



Thrusters are not only helpful for large yachts, typically a light weight boat with a single outboard or stern-drive 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 **SP 55 S2i** is the "classic" and best selling thruster in the Sidepower series 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	29 - 38 foot (see back for more info)
Tunnel inside diameter	185mm/7,3" (see back for more measurements)
Propulsion system	Single 4bl composite
Available for DCsystem	12V or 24V
Weight	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.
- Symmetrical 4 bladed composite kaplan propeller.
- 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
Thrust	55kg/125lbs.	< 67kg/147lbs.
Output power	3,1 kW/4 Hp	< 3,6kW/4,7Hp
Average current draw	320A/150A	< 355A/175A
Continous run time (20°C)	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. Specifications 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 efficiency tolerances are +/- 6%.

\*\* New patented safety features in the thruster controlbox.

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### Installation planning

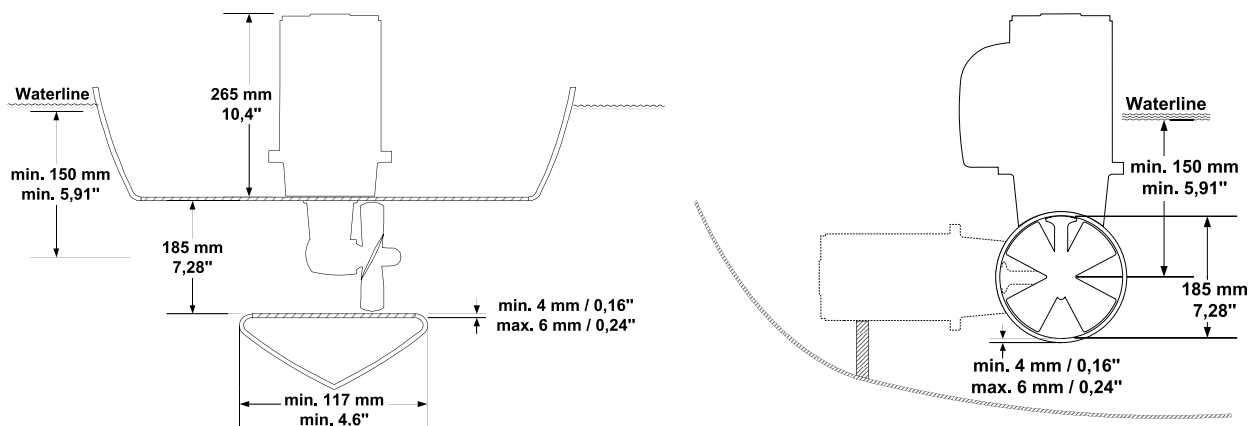
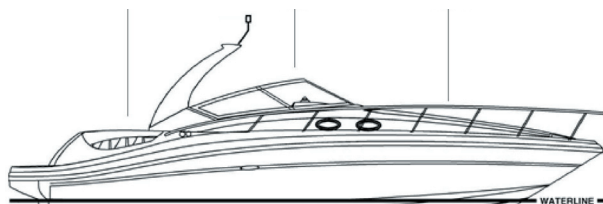


Table for selection of main cable, battery, fuse and main-switch sizes.				up to 7m total + & -	8 - 11m total + & -	12 - 15m total + & -	16 - 19m total + & -	20 - 23m total + & -	24 - 27m total + & -
Model	Voltage	Current draw	Min. Battery CCA by DIN/SAE	Min. Cable dimension	Min. Cable dimension	Min. Cable dimension	Min. Cable dimension	Min. Cable dimension	Min. Cable dimension
SP 55 S2i	12 V	330 A	350 CCA Din	35 mm <sup>2</sup>	60 mm <sup>2</sup>	95 mm <sup>2</sup>	95 mm <sup>2</sup>	120 mm <sup>2</sup>	120 mm <sup>2</sup>
			665 CCA SAE	AWG 1	AWG 2/O	AWG 3/O	AWG 4/O	2 x AWG 3/O	
	24 V	160 A	175 CCA Din	25 mm <sup>2</sup>	25 mm <sup>2</sup>	35 mm <sup>2</sup>	35 mm <sup>2</sup>	50 mm <sup>2</sup>	50 mm <sup>2</sup>
			332 CCA SAE	AWG 4	AWG 4	AWG 2	AWG 2	AWG 1	AWG 1

**Typical boat sizes:**  
SP55Si push the bow against a direct sidewind of approximately:

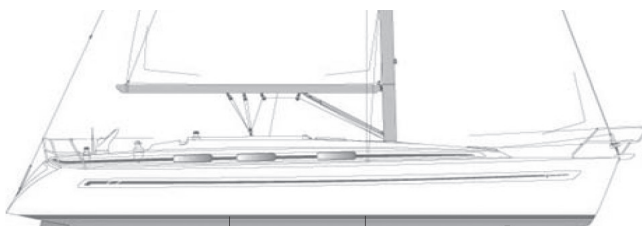
SeaRay 340 Sundancer - 21,7 knots.



Fairline Targa 34 - 20,5 knots.



Bavaria 36 - 19,8 knots.



Mainship 30 Pilot - 22,6 knots.



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

