

# SIDE-POWER

Thruster systems

## SP 55 S

## Product Specifications



Thrusters are not only helpful for large yachts, boats with a single outboard or stern-drive are even more difficult and stressful to handle in tight spots as the wind will move the boat faster.

With its outstanding energy efficiency and unrivalled reliability, the SP 55 S is the "classic" and best selling thruster in the Sidepower series and includes all the important and unique Sidepower 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.
- All sharp edges removed to avoid installers getting injuries.

### Description

Typical boat size 28 - 38 foot (see back for more info)  
Tunnel inside diameter 185 mm / 7,3" (see back for more measurements)  
Propulsion system Single 4bl composite  
Available for DC system 12 V or 24 V  
Weight 9,5 kg / 21 lbs.

Gearleg: Seawater resistant bronze, CNC machined in one process to ensure 100% correct tolerances, angles and measurements.  
Oil filled with header tank and breathing to ensure long lifetime and no contamination of oil.  
Marine grade seals with protective lip and mechanically protected by special propeller hub design.  
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	57 kg / 125 lbs.	67 kg / 147 lbs.
Output power	3,1 kW / 4 Hp	3,6 kW / 4,7 Hp
Average current draw	320 A / 150A	355 A / 175A
Continous run time (20°C)	3 min.	2 min 40 sec
Approx. long term run time	12% of time	8% of time
Min. battery CCA rating	300 by DIN or 550 by BCI/SAE	
Sidepower fuse size:	ANL250	

### 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.
- 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 efficiency tolerances are +/- 6%.

\*\* New patented safety features in the thruster controlbox will be available in 2005 model year units.

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### Installation planning

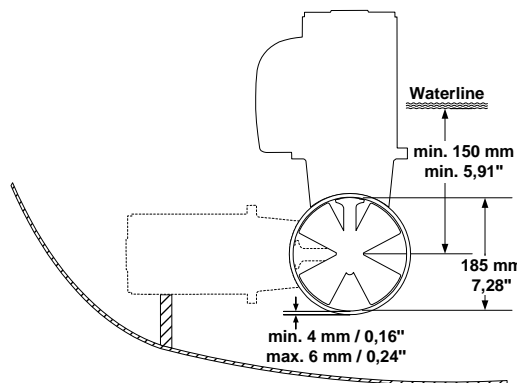
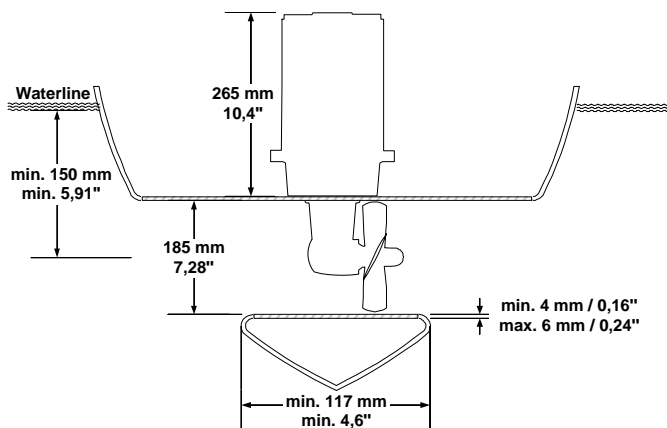
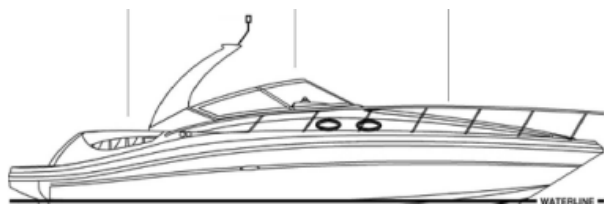


Table for selection of main cable, battery, fuse and main-switch sizes.			up to 7m total + & -		8 - 11m total + & -		12 - 15m total + & -		16 - 19m total + & -		20 - 23m total + & -		24 - 27m total + & -	
Model	Voltage	Current draw	Min. Cable dimension	Min. Battery CCA by DIN	Min. Cable dimension	Min. Battery CCA by DIN	Min. Cable dimension	Min. Battery CCA by DIN	Min. Cable dimension	Min. Battery CCA by DIN	Min. Cable dimension	Min. Battery CCA by DIN	Min. Cable dimension	Min. Battery CCA by DIN
SP 55 S	12 V	330 A	35 mm <sup>2</sup> AWG 1	350 CCA Din	60 mm <sup>2</sup> AWG 2/O	350 CCA Din	95 mm <sup>2</sup> AWG 3/O	350 CCA Din	95 mm <sup>2</sup> AWG 4/O	400 CCA Din	120 mm <sup>2</sup> AWG 4/0	400 CCA Din	120 mm <sup>2</sup> 2 x AWG 3/0	400 CCA Din
	24 V	160 A	25 mm <sup>2</sup> AWG 4	200 CCA Din	25 mm <sup>2</sup> AWG 4	200 CCA Din	35 mm <sup>2</sup> AWG 2	200 CCA Din	35 mm <sup>2</sup> AWG 2	250 CCA Din	50 mm <sup>2</sup> AWG 1	200 CCA Din	50 mm <sup>2</sup> AWG 1	200 CCA Din

**Typical boat sizes:**  
SP55S push the bow against a direct sidewind of approximately:

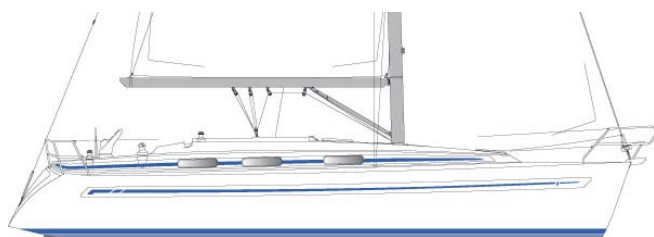
SeaRay 340 Sundancer - 21,7 knots.



Fairline Targa 34 - 20,5 knots.



Bavaria 36 - 19,8 knots.



Mainship 30 Pilot - 22,6 knots.



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