

Side-Power Thruster Specification Information:

		OPERATING VOLTAGE	THRUST ¹	AMP DRAW	MINIMUM BATTERY CABLE SIZING - BASED ON LENGTH OF TOTAL RUN, + and -					
MODEL	BATT CAP ²				0 - 7m (23ft)	8m (26ft) - 11m(36ft)	12m(39ft) - 15m(49ft)	16m(52ft) - 19m(62ft)	20m(65ft) - 23m(75ft)	24m(78ft) - 27m(89ft)
MODEL	SM30S2i	10.5v	30kgs(66lb)	195A	AWG2	AWG1	AWG 1/0	AWG 1/0	AWG 2/0	N/A
BATT CAP ²					380 CCA SAE	380 CCA SAE	380 CCA SAE	380 CCA SAE	428 CCA SAE	
MODEL	SM40S2i	10.5v	40kgs(88lb)	280A	AWG2	AWG 1/0	AWG 2/0	AWG 3/0	AWG 4/0	AWG 4/0
BATT CAP ²					570 CCA SAE	570 CCA SAE	570 CCA SAE	570 CCA SAE	570 CCA SAE	665 CCA SAE
MODEL	SM55S2i	10.5v	57kgs(125lb)	319A	AWG1	AWG 2/0	AWG 3/0	AWG 4/0	AWG 4/0	2 x AWG 4/0
BATT CAP ²					665 CCA SAE	665 CCA SAE	665 CCA SAE	760 CCA SAE	760 CCA SAE	760 CCA SAE
		21v	57kgs(125lb)	129A	AWG4	AWG4	AWG2	AWG2	AWG1	AWG1
					380 CCA SAE	380 CCA SAE	380 CCA SAE	475 CCA SAE	380 CCA SAE	380 CCA SAE
		OPERATING VOLTAGE	THRUST ¹	AMP DRAW	MINIMUM BATTERY CABLE SIZING - BASED ON LENGTH OF TOTAL RUN, + and -					
MODEL	BATT CAP ²				0 - 7m (23ft)	7m (23ft) - 14m(46ft)	14m(46ft) - 21m(69ft)	21m(69ft) - 28m(92ft)	28m(92ft) - 35m(115ft)	35m(155ft) +
MODEL	SM75Ti	10.5v	75kgs(165lb)	502A	AWG 1/0	AWG 3/0	AWG 4/0	2 x AWG 3/0	N/A	N/A
BATT CAP ²					1045 CCA SAE	1045 CCA SAE	1045 CCA SAE	1140 CCA SAE		
		21v	80kgs(176lb)	259A	AWG2	AWG2	AWG 1/0	AWG 2/0	AWG 3/0	AWG 4/0
					570 CCA SAE	570 CCA SAE	570 CCA SAE	665 CCA SAE	665 CCA SAE	665 CCA SAE
MODEL	SM95Ti	10.5v	96kgs(211lb)	735A	AWG 2/0	AWG 4/0	2 x AWG 3/0	2 x AWG 4/0	N/A	N/A
BATT CAP ²					1425 CCA SAE	1425 CCA SAE	1425 CCA SAE	1425 CCA SAE		
		21v	104kgs(228lb)	345A	AWG 1/0	AWG 1/0	AWG 2/0	AWG 3/0	AWG 4/0	2 x AWG 3/0
					760 CCA SAE	760 CCA SAE	760 CCA SAE	760 CCA SAE	855 CCA SAE	855 CCA SAE
MODEL	SM125Ti	10.5v	126kgs(277lb)	755A	AWG 2/0	AWG 4/0	2 x AWG 3/0	2 x AWG 4/0	N/A	N/A
BATT CAP ²					1425 CCA SAE	1425 CCA SAE	1425 CCA SAE	1425 CCA SAE		
		21v	126kgs(277lb)	328A	AWG 1/0	AWG 1/0	AWG 2/0	AWG 3/0	AWG 4/0	2 x AWG 3/0
					760 CCA SAE	760 CCA SAE	760 CCA SAE	760 CCA SAE	855 CCA SAE	855 CCA SAE
MODEL	SM155TCi	21v	164kgs(360lb)	523A	AWG 1/0	AWG 2/0	AWG 2/0	AWG 3/0	AWG 4/0	AWG 4/0+
BATT CAP ²					950 CCA SAE	950 CCA SAE	1045 CCA SAE	1140 CCA SAE	1140 CCA SAE	1140 CCA SAE
MODEL	SM200TCi	21v	200kgs(440lb)	525A	AWG 2/0	AWG 3/0	2 x AWG 2/0	Extra Battery	Extra Battery	Extra Battery
BATT CAP ²					1330 CCA SAE	1330 CCA SAE	1425 CCA SAE			
MODEL	SM240TCi	21v	240kgs(528lb)	635A	AWG 2/0	AWG 3/0	2 x AWG 2/0	Extra Battery	Extra Battery	Extra Battery
BATT CAP ²					1330 CCA SAE	1330 CCA SAE	1425 CCA SAE			
MODEL	SM285TCi	40v	288kgs(633lb)	440A	AWG 1/0	AWG 2/0	AWG 3/0	AWG 3/0	AWG 4/0	2 x AWG 2/0
BATT CAP ²	*Batt. Bank 1				760 CCA SAE	760 CCA SAE	760 CCA SAE	855 CCA SAE	855 CCA SAE	855 CCA SAE
	*Feed cables between banks				AWG 1/0 760CCA SAE	AWG 2/0 760CCA SAE				

¹ - Thrust value is average from tests of different units at stated operating voltage. Thruster submerged one tunnel diameter below water.

Note: Electric motor production standard tolerances by EN-1175. Output power can vary from nominal (average of both directions) +/-7.5%. Typically 90% of motors are within 3% of nominal.

² - Minimum SAE Battery Capacity is the accepted ABYC value at zero degrees Fahrenheit.

Notes:

Battery Switches should be rated to handle Amp Draw for 5 minutes UL1107.

Side-Power offers appropriate Battery Switches and Fuseholders.

If the tunnel installation has sharp ends than the performance will be less and the current consumption higher.

Fouling/Growth on the propellers/gearleg will dramatically reduce performance and increase current consumption.