

Side-Power Thruster Specification Information:

	MODELS	OPERATING VOLTAGE	THRUST ¹ (force)	AMP DRAW	RECOMMENDED BATTERY CABLE SIZING - BASED ON LENGTH OF TOTAL RUN, + and -					
					>7m (23ft)	7m(23ft)-14m(46ft)	15m(49ft)-21m(69ft)	22m(72ft)-28m(92ft)	28m(92ft)-35m(115ft)	36m(118ft) - 45m(148ft)
MODEL	SE30/125S	10.5v	30kg(66lb)	195A	AWG1	AWG 1/0	AWG 3/0	AWG 4/0	2 x AWG 2/0	2 x AWG 3/0
BATT CAP ²					380 CCA SAE	380 CCA SAE	380 CCA SAE	380 CCA SAE	380 CCA SAE	380 CCA SAE
MODEL	SE40/125S	10.5v	40kg(88lb)	280A	AWG 1/0	AWG 2/0	AWG 4/0	2 x AWG 3/0	2 x AWG 4/0	N/A
BATT CAP ²	SEP40/125S				570 CCA SAE	570 CCA SAE	570 CCA SAE	570 CCA SAE	570 CCA SAE	
MODEL	SE60/185S	10.5v	60kg(132lb)	340A	AWG 1/0	AWG 3/0	2 x AWG 2/0	2 x AWG 3/0	2 x AWG 4/0	N/A
BATT CAP ²	SEP60/185S				665 CCA SAE	665 CCA SAE	665 CCA SAE	665 CCA SAE	665 CCA SAE	
		21v	60kg(132lb)	170A	AWG1	AWG1	AWG1	AWG 1/0	AWG 2/0	AWG 2/0
					332 CCA SAE	332 CCA SAE	332 CCA SAE	332 CCA SAE	332 CCA SAE	332 CCA SAE
		OPERATING VOLTAGE	THRUST ¹	AMP DRAW	RECOMMENDED BATTERY CABLE SIZING - BASED ON LENGTH OF TOTAL RUN, + and -					
					>7m (23ft)	7m(23ft)-14m(46ft)	15m(49ft)-21m(69ft)	22m(72ft)-28m(92ft)	28m(92ft) - 35m(115ft)	36m(118ft) - 45m(148ft)
MODEL	SE80/185T	10.5v	80kg(176lb)	530A	AWG 2/0	2 x AWG 2/0	2 x AWG 2/0	2 x AWG 3/0	2 x AWG 4/0	N/A
BATT CAP ²	SR80/185T SX80/185T & SEP versions				1045 CCA SAE	1045 CCA SAE	1045 CCA SAE	1045 CCA SAE	1045 CCA SAE	
		21v	80kg(176lb)	260A	AWG1	AWG1/0	AWG 2/0	AWG 3/0	AWG 4/0	2 x AWG 3/0
					570 CCA SAE	570 CCA SAE	570 CCA SAE	570 CCA SAE	570 CCA SAE	570 CCA SAE
MODEL	SE100/185T	10.5v	100kg(220lb)	740A	AWG 3/0	2 x AWG 3/0	2 x AWG 4/0	N/A	N/A	N/A
BATT CAP ²	SR100/185T SX100/185T & SEP versions				1425 CCA SAE	1425 CCA SAE	1425 CCA SAE			
		21v	100kg(220lb)	340A	AWG 1/0	AWG 2/0	AWG 3/0	AWG 4/0	2 x AWG 3/0	2 x AWG 4/0
					760 CCA SAE	760 CCA SAE	760 CCA SAE	760 CCA SAE	760 CCA SAE	760 CCA SAE
MODEL	SE120/215T	21v	120kg(264lb)	400A	AWG 1/0	AWG 2/0	AWG 3/0	AWG 4/0	2 x AWG 2/0	2 x AWG 3/0
BATT CAP ²	& SEP version				855 CCA SAE	855 CCA SAE	855 CCA SAE	855 CCA SAE	855 CCA SAE	855 CCA SAE
MODEL	SE130/250T	10.5v	130kg(286lb)	740A	AWG 3/0	2 x AWG 3/0	2 x AWG 4/0	N/A	N/A	N/A
BATT CAP ²	& SEP version				1425 CCA SAE	1425 CCA SAE	1425 CCA SAE			
		21v	130kg(286lb)	340A	AWG 1/0	AWG 2/0	AWG 3/0	AWG 4/0	2 x AWG 3/0	2 x AWG 4/0
					760 CCA SAE	760 CCA SAE	760 CCA SAE	760 CCA SAE	760 CCA SAE	760 CCA SAE
MODEL	SE150/215T	21v	150kg(330lb)	560A	AWG 2/0	AWG 3/0	AWG 4/0	2 x AWG 2/0	2 x AWG 3/0	2 x AWG 4/0
BATT CAP ²	& SEP version				1150 CCA SAE	1150 CCA SAE	1150 CCA SAE	1150 CCA SAE	1150 CCA SAE	1150 CCA SAE
MODEL	SE170/250TC	21v	170kg(374lb)	540A	AWG 1/0	AWG 2/0	AWG 2/0	AWG 3/0	AWG 4/0	2 x AWG 2/0
BATT CAP ²	& SEP version				950 CCA SAE	950 CCA SAE	1045 CCA SAE	1140 CCA SAE	1140 CCA SAE	1140 CCA SAE
MODEL	SE210/250TC	21v	200kg(440lb)	670A	AWG 2/0	AWG 3/0	2 x AWG 2/0	Extra Battery	Extra Battery	Extra Battery
BATT CAP ²	& SEP version				1330 CCA SAE	1330 CCA SAE	1425 CCA SAE			
MODEL	SP240TCi	21v	240kg(528lb)	670A	AWG 2/0	AWG 3/0	2 x AWG 2/0	Extra Battery	Extra Battery	Extra Battery
BATT CAP ²	& SEP version				1330 CCA SAE	1330 CCA SAE	1425 CCA SAE			
MODEL	SP285TCi	42v	285kg(627lb)	430A	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	AWG 2/0				
					760CCA SAE	760CCA SAE				

¹ - Thrust value (kgf/lbf) 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 Cable sizing is min. rec., using a larger size will always be better as it reduces chance of voltage drop. Example 4/0 is better than 3/0.

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 then the performance will be less and the current consumption higher.

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

Please refer to the Thruster Installation Manual for more detailed information on each model.