

SunPumps Brushless DC Submersible MODEL SCS 4.5-160

1/2 HP Motor

PSI	TDH Feet	TDH Meters	Motor Voltage	Motor Amps	U.S. GPM	LPM	Motor Watts	Panel Watts *	System Efficiency
0	0	0.0	30	3.78	4.2	15.9	113	142	0%
10	23	7.0	30	3.81	3.4	12.9	114	143	13%
20	46	14.1	30	3.70	2.3	8.7	111	139	18%
30	69	21.1	30	3.32	0.8	3.0	100	125	10%
40	92	28.2	30	2.96	0.0	0.0	89	111	0%

Suggested solar module array: 2-70 to 80 watt modules wired in series.

PSI	TDH Feet	TDH Meters	Motor Voltage	Motor Amps	U.S. GPM	LPM	Motor Watts	Panel Watts *	System Efficiency
0	0	0.0	45	5.84	6.1	23.1	263	329	0%
10	23	7.0	45	5.88	5.7	21.6	265	331	9%
20	46	14.1	45	5.87	5.2	19.7	264	330	17%
30	69	21.1	45	5.84	4.5	17.0	263	329	22%
40	92	28.2	45	5.74	3.8	14.4	258	323	26%
50	116	35.2	45	5.53	2.8	10.6	249	311	24%
60	139	42.3	45	5.07	1.5	5.7	228	285	17%
70	162	49.3	45	4.38	0.0	0.0	197	246	0%

Suggested solar module array: 6-55 to 60 watt modules wired in 2 parallel strings of 3 in series.

PSI	TDH Feet	TDH Meters	Motor Voltage	Motor Amps	U.S. GPM	LPM	Motor Watts	Panel Watts *	System Efficiency
0	0	0.0	60	8.17	8.0	30.3	490	613	0%
10	23	7.0	60	8.18	7.6	28.8	491	614	7%
20	46	14.1	60	8.20	7.2	27.3	492	615	13%
30	69	21.1	60	8.18	6.7	25.4	491	614	18%
40	92	28.2	60	8.16	6.2	23.5	490	612	22%
50	116	35.2	60	8.11	5.7	21.6	487	608	25%
60	139	42.3	60	8.04	5.1	19.3	482	603	28%
70	162	49.3	60	7.90	4.5	17.0	474	593	29%
80	185	56.3	60	7.70	3.8	14.4	462	578	29%
90	208	63.4	60	7.39	2.9	11.0	443	554	26%
100	231	70.4	60	6.92	2.0	7.6	415	519	21%
110	254	77.5	60	6.26	1.0	3.8	376	470	13%
120	277	84.5	60	5.98	0.0	0.0	359	449	0%

* Peak panel watts using a 20% deration factor.

Suggested solar module array: 8-75 to 80 watt modules wired in 2 parallel strings of 4 in series.