

SunPumps Brushless DC Submersible MODEL SCS 6-185

1 HP

PSI	TDH Feet	TDH Meters	Motor Voltage	Motor Amps	U.S. GPM	LPM	Motor Watts	Peak Panel Watts*	System Efficiency
0	0	0.0	60	2.61	5.8	22.0	157	196	0%
10	23	7.0	60	2.69	5.0	18.9	161	202	13%
20	46	14.1	60	2.66	3.8	14.4	160	200	21%
30	69	21.1	60	2.43	2.2	8.3	146	182	20%
40	92	28.2	60	1.98	0.0	0.0	119	149	0%

Suggested solar module array: 4-50 to 60 watt modules wired in 1 string of 4 in series, or

PSI	TDH Feet	TDH Meters	Motor Voltage	Motor Amps	U.S. GPM	LPM	Motor Watts	Peak Panel Watts*	System Efficiency
0	0	0.0	75	3.49	7.3	27.6	262	327	0%
10	23	7.0	75	3.51	6.5	24.6	263	329	11%
20	46	14.1	75	3.52	5.7	21.6	264	330	19%
30	69	21.1	75	3.49	4.7	17.8	262	327	23%
40	92	28.2	75	3.37	3.6	13.6	253	316	25%
50	116	35.2	75	2.91	2.0	7.6	218	273	20%
60	139	42.3	75	2.52	0.0	0.0	189	236	0%

Suggested solar module array: 5-65 to 70 watt modules wired in 1 string of 5 in series.

PSI	TDH Feet	TDH Meters	Motor Voltage	Motor Amps	U.S. GPM	LPM	Motor Watts	Peak Panel Watts*	System Efficiency
0	0	0.0	90	4.34	8.8	33.3	391	488	0%
10	23	7.0	90	4.36	8.1	30.7	392	491	9%
20	46	14.1	90	4.28	7.3	27.6	385	482	16%
30	69	21.1	90	4.38	6.4	24.2	394	493	21%
40	92	28.2	90	4.34	5.5	20.8	391	488	25%
50	116	35.2	90	4.24	4.6	17.4	382	477	26%
60	139	42.3	90	4.04	3.5	13.2	364	455	25%
70	162	49.3	90	3.59	2.0	7.6	323	404	19%
80	185	56.3	90	3.09	0.0	0.0	278	348	0%

* Peak panel watts using a 20% deration factor.

Suggested solar module array: 6- 80 watt modules wired in series.

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1 HP Motor

PSI	TDH Feet	TDH Meters	Motor Voltage	Motor Amps	U.S. GPM	LPM	Motor Watts	Peak Panel Watts*	System Efficiency
0	0	0.0	105	5.25	10.4	39.4	551	689	0%
10	23	7.0	105	5.23	9.7	36.7	549	686	8%
20	46	14.1	105	5.25	9.0	33.9	551	689	14%
30	69	21.1	105	5.25	8.1	30.7	551	689	19%
40	92	28.2	105	5.25	7.3	27.6	551	689	23%
50	116	35.2	105	5.22	6.5	24.6	548	685	26%
60	139	42.3	105	5.13	5.7	21.6	539	673	28%
70	162	49.3	105	5.00	4.8	18.2	525	656	28%
80	185	56.3	105	4.78	3.7	14.0	502	627	26%
90	208	63.4	105	4.38	2.0	7.6	460	575	17%
100	231	70.4	105	3.65	0.0	0.0	383	479	0%

Suggested solar module array: 7-100 watt modules wired in series.

PSI	TDH Feet	TDH Meters	Motor Voltage	Motor Amps	U.S. GPM	LPM	Motor Watts	Peak Panel Watts*	System Efficiency
0	0	0.0	120	6.06	11.6	43.9	727	909	0%
10	23	7.0	120	6.07	11.0	41.6	728	911	7%
20	46	14.1	120	6.09	10.4	39.2	731	914	12%
30	69	21.1	120	6.11	9.7	36.7	733	917	17%
40	92	28.2	120	6.12	9.0	34.1	734	918	21%
50	116	35.2	120	6.11	8.3	31.2	733	917	24%
60	139	42.3	120	6.07	7.5	28.4	728	911	27%
70	162	49.3	120	6.01	6.8	25.5	721	902	29%
80	185	56.3	120	5.92	6.0	22.7	710	888	29%
90	208	63.4	120	5.76	5.1	19.3	691	864	29%
100	231	70.4	120	5.54	4.1	15.5	665	831	27%
110	254	77.5	120	5.19	2.8	10.6	623	779	22%
120	277	84.5	120	4.66	1.4	5.3	559	699	13%
130	300	91.6	120	4.23	0.0	0.0	508	635	0%

* Peak panel watts using a 20% deration factor.

Suggested solar module array: 8-120 watt modules wired in series.