

SunPumps Brushless DC Submersible

MODEL SCS 20-200

2 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	120	5.90	28.0	106.0	708	885	0%
10	23	7.0	120	5.87	26.0	98.4	704	881	16%
20	46	14.1	120	5.72	23.5	88.9	686	858	30%
30	69	21.1	120	5.72	20.5	77.6	686	858	39%
40	92	28.2	120	5.53	17.0	64.3	664	830	45%
50	116	35.2	120	5.17	13.0	49.2	620	776	46%
60	139	42.3	120	4.65	7.3	27.6	558	698	34%
70	162	49.3	120	3.76	0.0	0.0	451	564	0%

Suggested solar module array: 16-53 to 60 watt modules wired in 2 parallel strings of 8 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	135	6.84	30.9	117.0	923	1154	0%
10	23	7.0	135	6.84	29.0	109.8	923	1154	14%
20	46	14.1	135	6.84	27.0	102.2	923	1154	25%
30	69	21.1	135	6.76	24.5	92.7	913	1141	35%
40	92	28.2	135	6.63	22.0	83.3	895	1119	43%
50	116	35.2	135	6.43	19.0	71.9	868	1085	48%
60	139	42.3	135	6.11	15.0	56.8	825	1031	47%
70	162	49.3	135	5.63	9.9	37.8	760	950	40%
80	185	56.3	135	4.69	2.5	10.0	633	791	14%
90	208	63.4	135	4.36	0.0	0.0	589	736	0%

Suggested solar module array: 18-64 to 75 watt modules wired in 2 parallel strings of 9 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	150	7.80	33.5	126.8	1170	1463	0%
10	23	7.0	150	7.80	31.8	120.4	1170	1463	12%
20	46	14.1	150	7.80	30.0	113.6	1170	1463	22%
30	69	21.1	150	7.77	28.0	106.0	1166	1457	31%
40	92	28.2	150	7.66	25.5	96.5	1149	1436	39%
50	116	35.2	150	7.52	23.0	87.1	1128	1410	44%
60	139	42.3	150	7.33	20.0	75.7	1100	1374	47%
70	162	49.3	150	7.03	16.5	62.5	1055	1318	48%
80	185	56.3	150	6.55	12.0	45.4	983	1228	43%
90	208	63.4	150	6.08	7.0	26.5	912	1140	30%
100	231	70.4	150	4.99	0.0	0.0	749	936	0%

Suggested solar module array: 20-75 to 80 watt modules wired in 2 parallel strings of 10 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	180	9.70	39.0	147.6	1746	2183	0%
10	23	7.0	180	9.72	37.5	141.9	1750	2187	9%
20	46	14.1	180	9.74	35.8	135.5	1753	2192	18%
30	69	21.1	180	9.73	34.0	128.7	1751	2189	25%
40	92	28.2	180	9.69	32.0	121.1	1744	2180	32%
50	116	35.2	180	9.60	30.0	113.6	1728	2160	38%
60	139	42.3	180	9.49	28.0	106.0	1708	2135	43%
70	162	49.3	180	9.34	25.5	96.5	1681	2102	46%
80	185	56.3	180	9.15	23.0	87.1	1647	2059	49%
90	208	63.4	180	8.88	20.3	76.8	1598	1998	50%
100	231	70.4	180	8.55	17.0	64.3	1539	1924	48%
110	254	77.5	180	8.09	13.7	51.9	1456	1820	45%
120	277	84.5	180	7.20	10.0	37.9	1296	1620	40%
130	300	91.6	180	6.92	6.0	22.7	1246	1557	27%
140	323	98.6	180	6.80	2.0	7.6	1224	1530	10%
150	347	105.6	180	6.22	0.0	0.0	1120	1400	0%

* Peak panel watts using a 20% deration factor.

Suggested solar module array: 24-80 to 90 watt modules wired in 2 parallel strings of 12 in series.