

## *SunPumps Brushless DC Submersible* MODEL SCS 8-90

1/2 HP Motor

PSI	TDH Feet	TDH Meters	Pump Voltage	Pump Amps	U.S. GPM	LPM	Motor Watts	Panel Watts *	System Efficiency
0	0	0.0	30	5.11	10.2	38.6	153	192	0%
5	12	3.5	30	5.18	9.4	35.6	155	194	13%
10	23	7.0	30	5.30	8.3	31.4	159	199	23%
15	35	10.6	30	5.36	7.2	27.3	161	201	29%
20	46	14.1	30	5.33	5.9	22.3	160	200	32%
25	58	17.6	30	5.22	4.6	17.4	157	196	32%
30	69	21.1	30	4.77	3.0	11.4	143	179	27%
35	81	24.6	30	4.23	1.2	4.5	127	159	14%
40	92	28.2	30	3.81	0.0	0.0	114	143	0%

Suggested solar module array: 4-53 to 60 watt modules wired in 2 parallel strings of 2 in series, or  
2-110 to 120 watt modules wired in series.

PSI	TDH Feet	TDH Meters	Pump Voltage	Pump Amps	U.S. GPM	LPM	Motor Watts	Panel Watts *	System Efficiency
0	0	0.0	45	8.20	14.2	53.7	369	461	0%
5	12	3.5	45	8.27	13.7	51.9	372	465	8%
10	23	7.0	45	8.35	13.0	49.2	376	470	15%
15	35	10.6	45	8.46	12.3	46.6	381	476	21%
20	46	14.1	45	8.54	11.6	43.9	384	480	26%
25	58	17.6	45	8.60	10.9	41.1	387	484	31%
30	69	21.1	45	8.63	10.0	37.9	388	485	34%
35	81	24.6	45	8.60	9.1	34.4	387	484	36%
40	92	28.2	45	8.55	8.2	31.0	385	481	37%
45	104	31.7	45	8.47	7.2	27.3	381	476	37%
50	116	35.2	45	8.24	6.0	22.7	371	464	35%
55	127	38.7	45	7.90	4.8	18.2	356	444	32%
60	139	42.3	45	7.38	3.4	12.9	332	415	27%
65	150	45.8	45	6.89	1.9	7.2	310	388	17%
70	162	49.3	45	6.58	0.5	1.9	296	370	5%
75	173	52.8	45	6.01	0.0	0.0	270	338	0%

\* Peak Panel Watts using a 20% deration factor.

Suggested solar module array: 6-75 to 80 watt modules wired in 2 parallel strings of 3 in series.