

SunPumps Brushless DC Submersible

MODEL SCS 11-210

1 HP

PSI	TDH Feet	TDH Meters	Voltage	Amps	U.S. GPM	LPM	Motor Watts	Panel Watts*	Efficiency
0	0	0.0	60	4.14	12.6	47.7	248	311	0%
10	23	7.0	60	4.13	10.9	41.3	248	310	19%
20	46	14.1	60	4.04	8.8	33.3	242	303	32%
30	69	21.1	60	3.77	5.7	21.6	226	283	33%
40	92	28.2	60	2.63	0.0	0.0	158	197	0%

Suggested solar module array: 4-70 to 80 watt modules wired in series.

PSI	TDH Feet	TDH Meters	Voltage	Amps	U.S. GPM	LPM	Motor Watts	Panel Watts*	System Efficiency
0	0	0.0	75	5.32	15.4	58.3	399	499	0%
10	23	7.0	75	5.35	14.0	53.0	401	502	15%
20	46	14.1	75	5.32	12.3	46.6	399	499	27%
30	69	21.1	75	5.21	10.4	39.4	391	488	35%
40	92	28.2	75	5.00	8.3	31.4	375	469	39%
50	116	35.2	75	4.59	5.4	20.4	344	430	34%
60	139	42.3	75	3.35	0.0	0.0	251	314	0%

Suggested solar module array: 10-53 to 60 watt modules wired in 2 parallel strings of 5 in series.

PSI	TDH Feet	TDH Meters	Voltage	Amps	U.S. GPM	LPM	Motor Watts	Panel Watts*	System Efficiency
0	0	0.0	90	6.56	18.2	68.9	590	738	0%
10	23	7.0	90	6.57	17.0	64.3	591	739	13%
20	46	14.1	90	6.57	15.5	58.7	591	739	23%
30	69	21.1	90	6.53	14.0	53.0	588	735	31%
40	92	28.2	90	6.42	12.3	46.6	578	722	37%
50	116	35.2	90	6.26	10.5	39.7	563	704	41%
60	139	42.3	90	6.00	8.5	32.2	540	675	41%
70	162	49.3	90	5.56	5.8	22.0	500	626	35%
80	185	56.3	90	4.49	1.8	6.8	404	505	16%
90	208	63.4	90	4.03	0.0	0.0	363	453	0%

Suggested solar module array: 12-60 to 70 watt modules wired in 2 parallel strings of 6 in series.

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PSI	TDH Feet	TDH Meters	Voltage	Amps	U.S. GPM	LPM	Motor Watts	Panel Watts*	System Efficiency
0	0	0.0	105	7.81	20.3	76.8	820	1025	0%
10	23	7.0	105	7.83	19.2	72.7	822	1028	10%
20	46	14.1	105	7.84	18.0	68.1	823	1029	19%
30	69	21.1	105	7.83	16.7	63.2	822	1028	27%
40	92	28.2	105	7.77	15.3	57.9	816	1020	33%
50	116	35.2	105	7.67	13.8	52.2	805	1007	37%
60	139	42.3	105	7.54	12.1	45.8	792	990	40%
70	162	49.3	105	7.31	10.5	39.7	768	959	42%
80	185	56.3	105	7.06	8.7	32.9	741	927	41%
90	208	63.4	105	6.64	6.4	24.2	697	872	36%
100	231	70.4	105	5.77	3.4	12.9	606	757	24%
110	254	77.5	105	4.82	0.0	0.0	506	633	0%

Suggested solar module array: 14-70 to 80 watt modules wired in 2 parallel strings of 7 in series.

PSI	TDH Feet	TDH Meters	Voltage	Amps	U.S. GPM	LPM	Motor Watts	Panel Watts*	System Efficiency
0	0	0.0	120	9.11	22.6	85.5	1093	1367	0%
10	23	7.0	120	9.13	21.6	81.8	1096	1370	9%
20	46	14.1	120	9.14	20.5	77.6	1097	1371	16%
30	69	21.1	120	9.13	19.5	73.8	1096	1370	23%
40	92	28.2	120	9.10	18.3	69.3	1092	1365	29%
50	116	35.2	120	9.04	17.0	64.3	1085	1356	34%
60	139	42.3	120	8.95	15.5	58.7	1074	1343	38%
70	162	49.3	120	8.82	14.0	53.0	1058	1323	40%
80	185	56.3	120	8.64	12.5	47.3	1037	1296	42%
90	208	63.4	120	8.42	11.0	41.6	1010	1263	43%
100	231	70.4	120	8.16	9.4	35.6	979	1224	42%
110	254	77.5	120	7.76	7.5	28.4	931	1164	39%
120	277	84.5	120	7.12	5.0	18.9	854	1068	31%
130	300	91.6	120	6.16	2.1	7.9	739	924	16%
140	323	98.6	120	5.58	0.0	0.0	670	837	0%

* Peak panel watts using a 20% deration factor.

Suggested solar module array: 16-80 to 90 watt modules wired in 2 parallel strings of 8 in series.