

SunPumps Brushless DC Submersible

MODEL SCS 30-115

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	3.71	30.0	113.6	223	278	0%
5	12	3.5	60	3.82	27.6	104.5	229	287	26%
10	23	7.0	60	4.14	24.0	90.8	248	311	42%
15	35	10.6	60	4.27	18.0	68.1	256	320	46%
20	46	14.1	60	4.00	11.0	41.6	240	300	40%
25	58	17.6	60	3.09	0.0	0.0	185	232	0%

Suggested solar module array: 4-80-90 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	4.75	36.0	136.3	356	445	0%
5	12	3.5	75	4.85	34.0	128.7	364	455	20%
10	23	7.0	75	5.18	31.3	118.5	389	486	35%
15	35	10.6	75	5.44	28.0	106.0	408	510	45%
20	46	14.1	75	5.60	24.0	90.8	420	525	50%
25	58	17.6	75	5.57	20.0	75.7	418	522	52%
30	69	21.1	75	5.27	15.0	56.8	395	494	50%
35	81	24.6	75	4.84	8.5	32.2	363	454	36%
40	92	28.2	75	4.07	0.0	0.0	305	382	0%

Suggested solar module array: 5-100 watt modules wired in 1 string of 5 in series, or
10-53 to 60 watt modules wired in 2 parallel strings 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	5.82	40.5	153.3	524	655	0%
5	12	3.5	90	5.93	39.0	147.6	534	667	16%
10	23	7.0	90	6.29	37.1	140.4	566	708	29%
15	35	10.6	90	6.57	35.2	133.2	591	739	39%
20	46	14.1	90	6.79	33.0	124.9	611	764	47%
25	58	17.6	90	6.96	30.0	113.6	626	783	52%
30	69	21.1	90	7.04	26.0	98.4	634	792	54%
35	81	24.6	90	6.92	22.0	83.3	623	779	54%
40	92	28.2	90	6.62	17.0	64.3	596	745	50%
45	104	31.7	90	6.25	11.0	41.6	563	703	38%
50	116	35.2	90	5.65	5.0	18.9	509	636	21%
55	127	38.7	90	5.10	0.0	0.0	459	574	0%

* Peak panel watts using a 20% deration factor.

Suggested solar module array: 12-70 to 80 watt modules wired in 2 parallel strings of 6 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	7.05	45.5	172.2	740	925	0%
5	12	3.5	105	7.15	44.1	166.9	751	938	13%
10	23	7.0	105	7.41	42.6	161.2	778	973	24%
15	35	10.6	105	7.70	40.9	154.8	809	1011	33%
20	46	14.1	105	7.98	38.9	147.2	838	1047	40%
25	58	17.6	105	8.18	36.5	138.2	859	1074	46%
30	69	21.1	105	8.34	34.0	128.7	876	1095	51%
35	81	24.6	105	8.46	31.0	117.3	888	1110	53%
40	92	28.2	105	8.48	27.5	104.1	890	1113	54%
45	104	31.7	105	8.34	23.5	88.9	876	1095	53%
50	116	35.2	105	8.06	19.5	73.8	846	1058	50%
55	127	38.7	105	7.73	15.0	56.8	812	1015	44%
60	139	42.3	105	7.35	10.0	37.9	772	965	34%
65	150	45.8	105	6.69	5.0	18.9	702	878	20%
70	162	49.3	105	6.16	0.0	0.0	647	809	0%

Suggested solar module array: 14-80 to 90 watt modules wired in 2 parallel strings of 7 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	8.22	51.4	194.5	986	1233	0%
5	12	3.5	120	8.35	50.0	189.3	1002	1253	11%
10	23	7.0	120	8.61	48.5	183.6	1033	1292	20%
15	35	10.6	120	8.87	46.7	176.8	1064	1331	29%
20	46	14.1	120	9.15	45.0	170.3	1098	1373	36%
25	58	17.6	120	9.40	43.0	162.8	1128	1410	41%
30	69	21.1	120	9.62	41.0	155.2	1154	1443	46%
35	81	24.6	120	9.77	38.6	146.1	1172	1466	50%
40	92	28.2	120	9.91	36.0	136.3	1189	1487	53%
45	104	31.7	120	10.00	33.0	124.9	1200	1500	54%
50	116	35.2	120	9.98	30.0	113.6	1198	1497	55%
55	127	38.7	120	9.83	26.4	99.9	1180	1475	54%
60	139	42.3	120	9.59	23.0	87.1	1151	1439	52%
65	150	45.8	120	9.27	19.0	71.9	1112	1391	48%
70	162	49.3	120	8.95	15.0	56.8	1074	1343	43%
75	173	52.8	120	8.56	10.7	40.5	1027	1284	34%
80	185	56.3	120	7.95	5.5	20.8	954	1193	20%
85	196	59.9	120	7.31	0.0	0.0	877	1097	0%

* Peak panel watts using a 20% deration factor.

Suggested solar module array: 24-60 to 70 watt modules wired in 3 parallel strings of 8 in series.