

SunPumps Brushless DC Submersible

MODEL SCS 14-160

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	60	4.68	18.5	70.0	281	351	0%
10	23	7.0	60	4.67	16.0	60.6	280	350	25%
20	46	14.1	60	4.50	12.5	47.3	270	338	40%
30	69	21.1	60	4.05	7.8	29.5	243	304	42%
40	92	28.2	60	2.92	0.0	0.0	175	219	0%

Suggested solar module array: 4-90 to 95 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	6.16	23.0	87.1	462	578	0%
10	23	7.0	75	6.16	20.8	78.7	462	578	20%
20	46	14.1	75	6.13	18.2	68.9	460	575	34%
30	69	21.1	75	5.93	15.0	56.8	445	556	44%
40	92	28.2	75	5.57	11.5	43.5	418	522	48%
50	116	35.2	75	4.83	6.5	24.6	362	453	39%
60	139	42.3	75	3.82	0.0	0.0	287	358	0%

Suggested solar module array: 5-110 to 120 watt modules wired in 1 string of 5 in series, or
10-55 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	7.70	26.5	100.3	693	866	0%
10	23	7.0	90	7.72	25.0	94.6	695	869	16%
20	46	14.1	90	7.70	23.1	87.4	693	866	29%
30	69	21.1	90	7.63	20.7	78.3	687	858	39%
40	92	28.2	90	7.43	18.0	68.1	669	836	47%
50	116	35.2	90	7.12	14.5	54.9	641	801	49%
60	139	42.3	90	6.61	10.8	40.9	595	744	47%
70	162	49.3	90	5.83	6.0	22.7	525	656	35%
80	185	56.3	90	4.75	0.0	0.0	428	534	0%

Suggested solar module array: 12-70 to 80 watt modules wired in 2 parallel strings of 6 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	105	9.24	29.4	111.3	970	1213	0%
10	23	7.0	105	9.24	28.0	106.0	970	1213	13%
20	46	14.1	105	9.24	26.4	99.9	970	1213	24%
30	69	21.1	105	9.22	24.7	93.5	968	1210	33%
40	92	28.2	105	9.10	22.4	84.8	956	1194	41%
50	116	35.2	105	8.93	19.9	75.3	938	1172	46%
60	139	42.3	105	8.67	16.9	64.0	910	1138	48%
70	162	49.3	105	8.30	13.8	52.2	872	1089	48%
80	185	56.3	105	7.71	10.2	38.6	810	1012	44%
90	208	63.4	105	6.98	5.8	22.0	733	916	31%
100	231	70.4	105	5.68	0.0	0.0	596	746	0%

Suggested solar module array: 14-80 to 90 watt modules wired in 2 parallel strings of 7 in series.

* Peak panel watts using a 20% deration factor.