

SunPumps Brushless DC Submersible

MODEL SCS 10-230

1 HP

PSI	TDH Feet	TDH Meters	Voltage	Amps	U.S. GPM	LPM	Motor Watts	Panel Watts*	System Efficiency
0	0	0.0	60	5.10	11.3	42.8	306	383	0%
10	23	7.0	60	5.02	10.3	39.0	301	377	15%
20	46	14.1	60	4.99	9.3	35.2	299	374	27%
30	69	21.1	60	4.91	8.0	30.3	295	368	35%
40	92	28.2	60	4.70	6.5	24.6	282	353	40%
50	116	35.2	60	4.29	4.0	15.1	257	322	34%
60	139	42.3	60	3.16	0.0	0.0	190	237	0%

Suggested solar module array: 4-90 to 100 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	6.61	13.6	51.5	496	620	0%
10	23	7.0	75	6.52	12.8	48.4	489	611	11%
20	46	14.1	75	6.53	12.0	45.4	490	612	21%
30	69	21.1	75	6.46	11.0	41.6	485	606	30%
40	92	28.2	75	6.41	10.0	37.9	481	601	36%
50	116	35.2	75	6.26	8.9	33.7	470	587	41%
60	139	42.3	75	6.05	7.6	28.8	454	567	44%
70	162	49.3	75	6.65	5.5	20.8	499	623	34%
80	185	56.3	75	4.97	3.0	11.4	373	466	28%
90	208	63.4	75	3.97	0.0	0.0	298	372	0%

Suggested solar module array: 10-60 to 70 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	8.08	15.8	59.8	727	909	0%
10	23	7.0	90	8.08	15.1	57.2	727	909	9%
20	46	14.1	90	8.10	14.4	54.5	729	911	17%
30	69	21.1	90	8.08	13.6	51.5	727	909	24%
40	92	28.2	90	8.01	12.8	48.4	721	901	31%
50	116	35.2	90	7.97	12.0	45.4	717	897	36%
60	139	42.3	90	7.84	11.0	41.6	706	882	41%
70	162	49.3	90	7.68	9.9	37.5	691	864	44%
80	185	56.3	90	7.47	8.6	32.6	672	840	45%
90	208	63.4	90	7.17	7.1	26.9	645	807	43%
100	231	70.4	90	6.71	5.4	20.2	604	755	39%
110	254	77.5	90	5.92	3.0	11.4	533	666	27%
120	277	84.5	90	4.84	0.0	0.0	436	545	0%

Suggested solar module array: 12-70 to 80 watt modules wired in 2 parallel strings of 6 in series.

SunPumps Brushless DC Submersible
MODEL SCS 10-230

PSI	TDH Feet	TDH Meters	Voltage	Amps	U.S. GPM	LPM	Motor Watts	Panel Watts*	System Efficiency
0	0	0.0	105	9.64	18.9	71.5	1012	1265	\
10	23	7.0	105	9.65	18.2	68.9	1013	1267	8%
20	46	14.1	105	9.67	17.5	66.2	1015	1269	15%
30	69	21.1	105	9.69	16.8	63.6	1017	1272	22%
40	92	28.2	105	9.68	16.0	60.6	1016	1271	27%
50	116	35.2	105	9.62	15.1	57.2	1010	1263	33%
60	139	42.3	105	9.56	14.2	53.7	1004	1255	37%
70	162	49.3	105	9.48	13.3	50.3	995	1244	41%
80	185	56.3	105	9.37	12.3	46.6	984	1230	44%
90	208	63.4	105	9.21	11.1	42.0	967	1209	45%
100	231	70.4	105	9.00	10.0	37.9	945	1181	46%
110	254	77.5	105	8.77	8.8	33.3	921	1151	46%
120	277	84.5	105	8.47	7.4	28.0	889	1112	43%
130	300	91.6	105	8.02	5.8	22.0	842	1053	39%
140	323	98.6	105	7.34	4.0	15.1	771	963	32%
150	347	105.6	105	6.52	1.9	7.2	685	856	18%
160	370	112.7	105	5.77	0.0	0.0	606	757	0%

* Peak panel watts using a 20% deration factor.

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