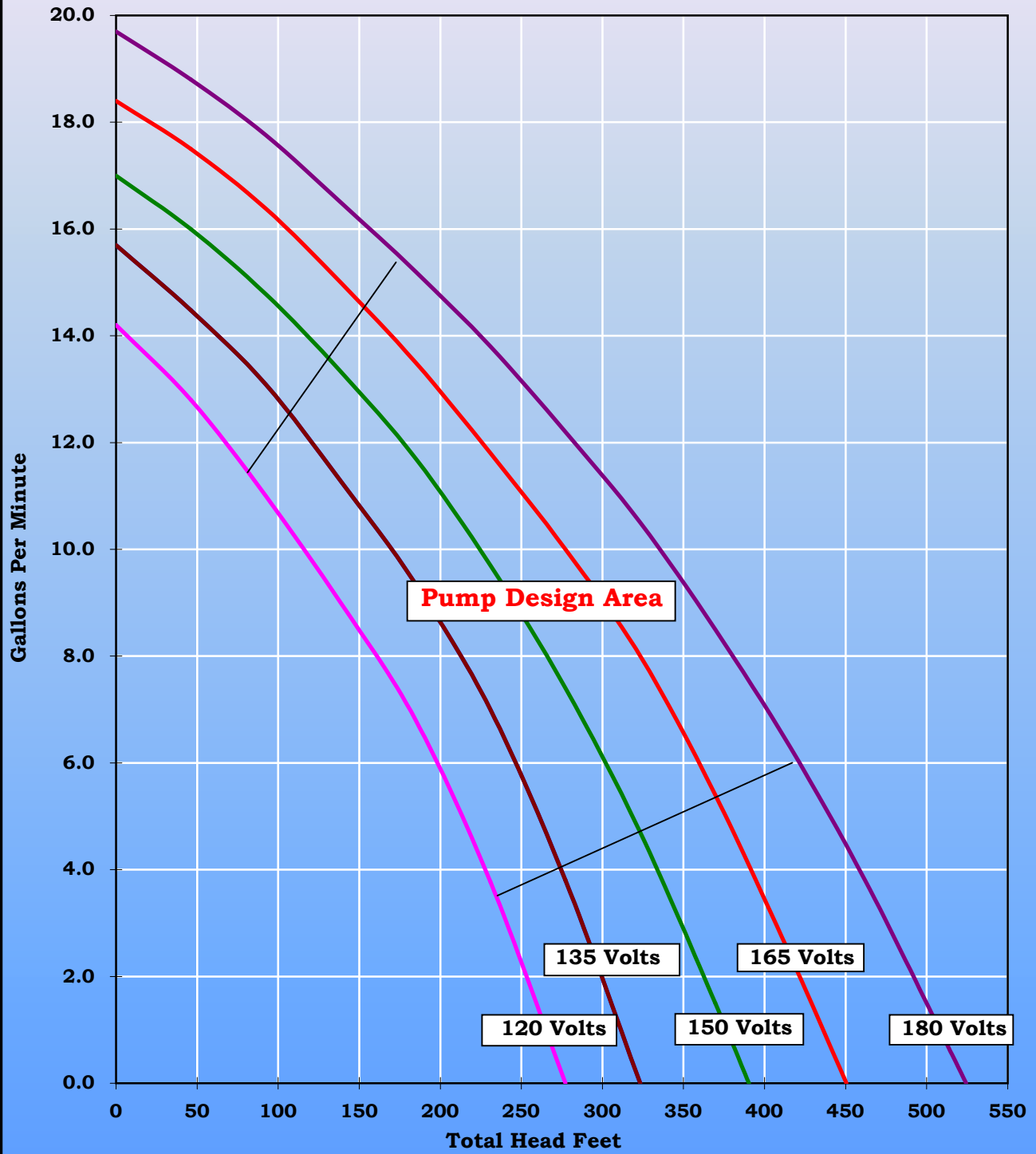


**SunPumps Brushless DC Submersible
Model SCS 11-300**



SunPumps Brushless DC Submersible MODEL SCS 11-300

1 1/2 HP Motor

PSI	TDH Feet	TDH Meters	Motor Voltage	Motor Amps	U.S. GPM	LPM	Motor Watts	Panel Watts*	System Efficiency
0	0	0.0	120	4.83	14.2	53.7	580	725	0%
20	46	14.1	120	4.84	12.8	48.4	581	726	19%
40	92	28.2	120	4.96	11.0	41.6	595	744	32%
60	139	42.3	120	4.98	9.0	34.1	598	747	39%
80	185	56.3	120	4.85	6.8	25.7	582	728	41%
100	231	70.4	120	4.05	3.8	14.3	486	608	34%
120	277	84.5	120	3.27	0.0	0.0	392	491	0%

Suggested solar module array: 8-90 to 120 watt modules wired in series.

PSI	TDH Feet	TDH Meters	Motor Voltage	Motor Amps	U.S. GPM	LPM	Motor Watts	Panel Watts*	System Efficiency
0	0	0.0	135	5.55	15.7	59.4	749	937	0%
20	46	14.1	135	5.57	14.5	54.8	752	940	17%
40	92	28.2	135	5.70	13.1	49.5	770	962	30%
60	139	42.3	135	5.76	11.3	42.7	778	972	38%
80	185	56.3	135	5.74	9.4	35.4	775	969	42%
100	231	70.4	135	5.55	7.0	26.5	749	937	41%
120	277	84.5	135	4.79	3.8	14.4	647	808	31%
140	323	98.6	135	3.74	0.0	0.0	505	631	0%

Suggested solar module array: 9-110 to 120 watt modules wired in series.

PSI	TDH Feet	TDH Meters	Motor Voltage	Motor Amps	U.S. GPM	LPM	Motor Watts	Panel Watts*	System Efficiency
0	0	0.0	150	6.29	17.0	64.3	944	1179	0%
20	46	14.1	150	6.29	16.0	60.6	944	1179	15%
40	92	28.2	150	6.43	14.8	55.9	965	1206	27%
60	139	42.3	150	6.53	13.3	50.5	980	1224	36%
80	185	56.3	150	6.55	11.7	44.3	983	1228	41%
100	231	70.4	150	6.50	9.7	36.7	975	1219	43%
120	277	84.5	150	6.28	7.4	28.0	942	1178	41%
140	323	98.6	150	5.58	4.7	17.8	837	1046	34%
160	370	112.7	150	4.72	1.5	5.7	708	885	15%
180	416	126.8	150	4.20	0.0	0.0	630	788	0%

Suggested solar module array: 20-65 to 80 watt modules wired in 2 parallel strings of 10 in series.

PSI	TDH Feet	TDH Meters	Voltage	Amps	U.S. GPM	LPM	Motor Watts	Panel Watts*	System Efficiency
0	0	0.0	165	7.04	18.4	69.6	1162	1452	0%
20	46	14.1	165	7.05	17.5	66.2	1163	1454	13%
40	92	28.2	165	7.17	16.4	62.0	1183	1479	24%
60	139	42.3	165	7.28	15.0	56.8	1201	1502	33%
80	185	56.3	165	7.34	13.5	51.1	1211	1514	39%
100	231	70.4	165	7.23	11.8	44.7	1193	1491	43%
120	277	84.5	165	7.26	10.0	37.9	1198	1497	44%
140	323	98.6	165	7.02	8.0	30.3	1158	1448	42%
160	370	112.7	165	6.44	5.4	20.4	1063	1328	35%
180	416	126.8	165	5.54	2.4	9.1	914	1143	21%
200	462	140.9	165	4.65	0.0	0.0	767	959	0%

Suggested solar module array: 22-70 to 80 watt modules wired in 2 parallel strings of 11 in series.

PSI	TDH Feet	TDH Meters	Motor Voltage	Motor Amps	U.S. GPM	LPM	Motor Watts	Panel Watts*	System Efficiency
0	0	0.0	180	7.78	19.7	74.6	1400	1751	0%
20	46	14.1	180	7.82	18.8	71.2	1408	1760	12%
40	92	28.2	180	7.93	17.8	67.4	1427	1784	22%
60	139	42.3	180	8.03	16.5	62.5	1445	1807	30%
80	185	56.3	180	8.11	15.2	57.5	1460	1825	36%
100	231	70.4	180	8.14	13.8	52.2	1465	1832	41%
120	277	84.5	180	8.11	12.2	46.2	1460	1825	44%
140	323	98.6	180	8.03	10.5	39.7	1445	1807	44%
160	370	112.7	180	7.79	8.5	32.2	1402	1753	42%
180	416	126.8	180	7.29	6.3	23.8	1312	1640	38%
200	462	140.9	180	6.54	3.8	14.4	1177	1472	28%
220	508	154.9	180	5.68	1.0	3.8	1022	1278	9%

Suggested solar module array: 20-75 to 85 watt modules wired in 2 parallel strings of 12 in series.

* Peak panel watts using a 20% deration factor.

SunPumps Brushless DC Submersible

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1 1/2 HP Motor

PSI	TDH Feet	TDH Meters	Motor Voltage	Motor Amps	U.S. GPM	LPM	Motor Watts	Panel Watts*	System Efficiency
0	0	0.0	120	4.83	14.2	53.7	580	725	0%
20	46	14.1	120	4.84	12.8	48.4	581	726	19%
40	92	28.2	120	4.96	11.0	41.6	595	744	32%
60	139	42.3	120	4.98	9.0	34.1	598	747	39%
80	185	56.3	120	4.85	6.8	25.7	582	728	41%
100	231	70.4	120	4.05	3.8	14.3	486	608	34%
120	277	84.5	120	3.27	0.0	0.0	392	491	0%

PSI	TDH Feet	TDH Meters	Motor Voltage	Motor Amps	U.S. GPM	LPM	Motor Watts	Panel Watts*	System Efficiency
0	0	0.0	135	5.55	15.7	59.4	749	937	0%
20	46	14.1	135	5.57	14.5	54.8	752	940	17%
40	92	28.2	135	5.70	13.1	49.5	770	962	30%
60	139	42.3	135	5.76	11.3	42.7	778	972	38%
80	185	56.3	135	5.74	9.4	35.4	775	969	42%
100	231	70.4	135	5.55	7.0	26.5	749	937	41%
120	277	84.5	135	4.79	3.8	14.4	647	808	31%
140	323	98.6	135	3.74	0.0	0.0	505	631	0%

PSI	TDH Feet	TDH Meters	Motor Voltage	Motor Amps	U.S. GPM	LPM	Motor Watts	Panel Watts*	System Efficiency
0	0	0.0	150	6.29	17.0	64.3	944	1179	0%
20	46	14.1	150	6.29	16.0	60.6	944	1179	15%
40	92	28.2	150	6.43	14.8	55.9	965	1206	27%
60	139	42.3	150	6.53	13.3	50.5	980	1224	36%
80	185	56.3	150	6.55	11.7	44.3	983	1228	41%
100	231	70.4	150	6.50	9.7	36.7	975	1219	43%
120	277	84.5	150	6.28	7.4	28.0	942	1178	41%
140	323	98.6	150	5.58	4.7	17.8	837	1046	34%
160	370	112.7	150	4.72	1.5	5.7	708	885	15%
169	390	119.0	150	4.20	0.0	0.0	630	788	0%

SunPumps Brushless DC Submersible MODEL SCS 11-300

1 1/2 HP Motor

PSI	TDH Feet	TDH Meters	Voltage	Amps	U.S. GPM	LPM	Motor Watts	Panel Watts*	System Efficiency
0	0	0.0	165	7.04	18.4	69.6	1162	1452	0%
20	46	14.1	165	7.05	17.5	66.2	1163	1454	13%
40	92	28.2	165	7.17	16.4	62.0	1183	1479	24%
60	139	42.3	165	7.28	15.0	56.8	1201	1502	33%
80	185	56.3	165	7.34	13.5	51.1	1211	1514	39%
100	231	70.4	165	7.23	11.8	44.7	1193	1491	43%
120	277	84.5	165	7.26	10.0	37.9	1198	1497	44%
140	323	98.6	165	7.02	8.0	30.3	1158	1448	42%
160	370	112.7	165	6.44	5.4	20.4	1063	1328	35%
180	416	126.8	165	5.54	2.4	9.1	914	1143	21%
195	450	137.3	165	4.65	0.0	0.0	767	959	0%

PSI	TDH Feet	TDH Meters	Motor Voltage	Motor Amps	U.S. GPM	LPM	Motor Watts	Panel Watts*	System Efficiency
0	0	0.0	180	7.78	19.7	74.6	1400	1751	0%
20	46	14.1	180	7.82	18.8	71.2	1408	1760	12%
40	92	28.2	180	7.93	17.8	67.2	1427	1784	22%
60	139	42.3	180	8.03	16.5	62.5	1445	1807	30%
80	185	56.3	180	8.11	15.2	57.5	1460	1825	36%
100	231	70.4	180	8.14	13.8	52.2	1465	1832	41%
120	277	84.5	180	8.11	12.2	46.2	1460	1825	44%
140	323	98.6	180	8.03	10.5	39.7	1445	1807	44%
160	370	112.7	180	7.79	8.5	32.2	1402	1753	42%
180	416	126.8	180	7.29	6.3	23.8	1312	1640	38%
200	462	140.9	180	6.54	3.8	14.4	1177	1472	28%
220	508	154.9	180	5.68	1.0	3.8	1022	1278	9%
227	524	159.9	180	5.10	0.0	0.0	918	1148	0%

SunPumps Brushless DC Submersible

MODEL SCS 11-300

1 1/2 HP Motor

PSI	TDH Feet	TDH Meters	VOLTAGE	AMPS	U.S. GPM	LPM	Motor Watts	Panel Watts	EFFICIENCY
0	0	0.0	120	4.83	14.2	53.7	580	725	0%
10	23	7.0	120	4.77	13.6	51.5	572	716	10%
20	46	14.1	120	4.84	12.8	48.4	581	726	19%
30	69	21.1	120	4.91	12.0	45.4	589	737	27%
40	92	28.2	120	4.96	11.0	41.6	595	744	32%
50	116	35.2	120	4.98	10.0	37.9	598	747	36%
60	139	42.3	120	4.98	9.0	34.1	598	747	39%
70	162	49.3	120	4.95	8.0	30.3	594	743	41%
80	185	56.3	120	4.85	6.8	25.7	582	728	41%
90	208	63.4	120	4.58	5.4	20.4	550	687	38%
100	231	70.4	120	4.05	3.4	12.9	486	608	30%
110	254	77.5	120	3.62	1.2	4.5	434	543	13%
120	277	84.5	120	3.27	0.0	0.0	392	491	0%
130	300	91.6	120	0.00	0.0	0.0	0	0	#DIV/0!

PSI	TDH Feet	TDH Meters	Voltage	Amps	U.S. GPM	LPM	Motor Watts	Panel Watts	Efficiency
0	0	0.0	135	5.55	15.7	59.4	749	937	0%
10	23	7.0	135	5.50	15.1	57.2	743	928	9%
20	46	14.1	135	5.57	14.4	54.5	752	940	17%
30	69	21.1	135	5.64	13.7	51.9	761	952	23%
40	92	28.2	135	5.70	12.9	48.8	770	962	29%
50	116	35.2	135	5.74	12.0	45.4	775	969	34%
60	139	42.3	135	5.76	11.1	42.0	778	972	37%
70	162	49.3	135	5.76	10.2	38.6	778	972	40%
80	185	56.3	135	5.74	9.2	34.8	775	969	41%
90	208	63.4	135	5.68	8.1	30.7	767	959	41%
100	231	70.4	135	5.55	7.0	26.5	749	937	41%
110	254	77.5	135	5.27	5.5	20.8	711	889	37%
120	277	84.5	135	4.79	3.8	14.4	647	808	31%
130	300	91.6	135	4.30	1.8	6.8	581	726	18%
140	323	98.6	135	3.74	0.0	0.0	505	631	0%

PSI	TDH Feet	TDH Meters	Voltage	Amps	U.S. GPM	LPM	Motor Watts	Panel Watts	Efficiency
0	0	0.0	150	6.29	17.0	64.3	944	1179	0%
10	23	7.0	150	6.24	16.5	62.5	936	1170	8%
20	46	14.1	150	6.29	16.0	60.6	944	1179	15%
30	69	21.1	150	6.37	15.3	57.9	956	1195	21%
40	92	28.2	150	6.43	14.6	55.3	965	1206	26%
50	116	35.2	150	6.48	13.9	52.4	972	1215	31%
60	139	42.3	150	6.53	13.2	50.0	980	1224	35%
70	162	49.3	150	6.55	12.4	46.9	983	1228	38%
80	185	56.3	150	6.55	11.5	43.5	983	1228	41%
90	208	63.4	150	6.53	10.6	40.1	980	1224	42%
100	231	70.4	150	6.50	9.7	36.7	975	1219	43%
110	254	77.5	150	6.44	8.6	32.6	966	1208	43%
120	277	84.5	150	6.28	7.4	28.0	942	1178	41%
130	300	91.6	150	6.03	6.0	22.7	905	1131	38%
140	323	98.6	150	5.58	4.7	17.8	837	1046	34%
150	347	105.6	150	5.06	3.3	12.5	759	949	28%
160	370	112.7	150	4.72	1.5	5.7	708	885	15%
170	393	119.7	150	4.20	0.0	0.0	630	788	0%

PSI	TDH Feet	TDH Meters	Voltage	Amps	U.S. GPM	LPM	Motor Watts	Panel Watts	Efficiency
0	0	0.0	165	7.04	18.4	69.6	1162	1452	0%
10	23	7.0	165	7.00	18.0	68.1	1155	1444	7%
20	46	14.1	165	7.05	17.5	66.2	1163	1454	13%
30	69	21.1	165	7.12	16.9	63.8	1175	1469	19%
40	92	28.2	165	7.17	16.2	61.3	1183	1479	24%
50	116	35.2	165	7.23	15.6	59.0	1193	1491	28%
60	139	42.3	165	7.28	15.0	56.6	1201	1502	32%
70	162	49.3	165	7.32	14.2	53.7	1208	1510	36%
80	185	56.3	165	7.34	13.5	51.1	1211	1514	39%
90	208	63.4	165	7.34	12.7	48.1	1211	1514	41%
100	231	70.4	165	7.23	11.8	44.7	1193	1491	43%
110	254	77.5	165	7.30	11.0	41.6	1205	1506	44%
120	277	84.5	165	7.26	10.0	37.9	1198	1497	44%
130	300	91.6	165	7.17	9.0	34.1	1183	1479	43%
140	323	98.6	165	7.02	8.0	30.1	1158	1448	42%
150	347	105.6	165	6.79	6.7	25.2	1120	1400	39%
160	370	112.7	165	6.44	5.4	20.4	1063	1328	35%
170	393	119.7	165	6.00	4.0	15.1	990	1238	30%
180	416	126.8	165	5.54	2.4	9.1	914	1143	21%
190	439	133.8	165	5.17	1.0	3.8	853	1066	10%
200	462	140.9	165	4.65	0.0	0.0	767	959	0%

PSI	TDH Feet	TDH Meters	Voltage	Amps	U.S. GPM	LPM	Motor Watts	Panel Watts	Efficiency
0	0	0.0	180	7.78	19.7	74.6	1400	1751	0%
10	23	7.0	180	7.29	19.2	72.7	1312	1640	6%
20	46	14.1	180	7.82	18.8	71.2	1408	1760	12%
30	69	21.1	180	7.88	18.3	69.3	1418	1773	17%
40	92	28.2	180	7.93	17.8	67.4	1427	1784	22%
50	116	35.2	180	7.98	17.1	64.7	1436	1796	26%
60	139	42.3	180	8.03	16.5	62.5	1445	1807	30%
70	162	49.3	180	8.08	15.9	60.2	1454	1818	33%
80	185	56.3	180	8.11	15.2	57.6	1460	1825	36%
90	208	63.4	180	8.13	14.5	54.9	1463	1829	39%
100	231	70.4	180	8.14	13.8	52.2	1465	1832	41%
110	254	77.5	180	8.13	13.0	49.2	1463	1829	43%
120	277	84.5	180	8.11	12.2	46.2	1460	1825	44%
130	300	91.6	180	8.08	11.4	43.1	1454	1818	44%
140	323	98.6	180	8.03	10.5	39.7	1445	1807	44%
150	347	105.6	180	7.93	9.7	36.5	1427	1784	44%
160	370	112.7	180	7.79	8.5	32.2	1402	1753	42%
170	393	119.7	180	7.56	7.5	28.4	1361	1701	41%
180	416	126.8	180	7.29	6.3	23.8	1312	1640	38%
190	439	133.8	180	6.90	5.0	18.9	1242	1553	33%
200	462	140.9	180	6.54	3.8	14.4	1177	1472	28%
210	485	147.9	180	6.04	2.4	9.1	1087	1359	20%
220	508	154.9	180	5.68	1.0	3.8	1022	1278	9%
230	531	162.0	180	5.10	0.0	0.0	918	1148	0%