

## *SunPumps Brushless DC Submersible*

### **MODEL SCS 4-325**

1 HP

PSI	TDH Feet	TDH Meters	Motor Voltage	Motor Amps	U.S. GPM	LPM	Motor Watts	Panel Watts*	System Efficiency
0	0	0.0	60	3.93	4.5	17.0	236	295	0%
15	35	10.6	60	3.95	4.0	15.1	237	296	11%
30	69	21.1	60	3.94	3.5	13.1	236	296	19%
45	104	31.7	60	3.86	2.8	10.6	232	290	24%
60	139	42.3	60	3.69	1.9	7.2	221	277	22%
75	173	52.8	60	3.25	0.7	2.6	195	244	12%
90	208	63.4	60	2.93	0.0	0.0	176	220	0%

PSI	TDH Feet	TDH Meters	Motor Voltage	Motor Amps	U.S. GPM	LPM	Motor Watts	Panel Watts*	System Efficiency
0	0	0.0	75	5.11	5.4	20.4	383	479	0%
15	35	10.6	75	5.12	5.0	18.9	384	480	8%
30	69	21.1	75	5.13	4.6	17.2	385	481	15%
45	104	31.7	75	5.11	4.1	15.5	383	479	21%
60	139	42.3	75	5.06	3.6	13.6	380	474	25%
75	173	52.8	75	4.96	3.0	11.4	372	465	26%
90	208	63.4	75	4.77	2.3	8.7	358	447	25%
105	243	73.9	75	4.42	1.4	5.3	332	414	19%
120	277	84.5	75	3.74	0.0	0.0	281	351	0%

Suggested solar module array: 10-53 to 60 watt modules wired in 2 parallel strings of 5 in series, or 5-100 watt modules wired 5 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	90	6.29	6.4	24.2	566	708	0%
15	35	10.6	90	6.31	6.0	22.8	568	710	7%
30	69	21.1	90	6.32	5.7	21.4	569	711	13%
45	104	31.7	90	6.33	5.3	20.1	570	712	18%
60	139	42.3	90	6.30	4.9	18.5	567	709	23%
75	173	52.8	90	6.27	4.5	17.0	564	705	26%
90	208	63.4	90	6.20	4.0	15.1	558	698	28%
105	243	73.9	90	6.09	3.4	12.9	548	685	28%
120	277	84.5	90	5.92	2.8	10.7	533	666	28%
135	312	95.1	90	5.64	2.2	8.3	508	635	25%
150	347	105.6	90	5.25	1.5	5.7	473	591	21%
165	381	116.2	90	4.72	0.8	3.0	425	531	14%
180	416	126.8	90	4.51	0.0	0.0	406	507	0%

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

## *SunPumps Brushless DC Submersible* MODEL SCS 4-325

PSI	TDH Feet	TDH Meters	Motor Voltage	Motor Amps	U.S. GPM	LPM	Motor Watts	Panel Watts*	System Efficiency
0	0	0.0	105	7.45	7.2	27.3	782	978	0%
15	35	10.6	105	7.53	6.9	26.1	791	988	6%
30	69	21.1	105	7.53	6.6	25.0	791	988	11%
45	104	31.7	105	7.53	6.3	23.7	791	988	15%
60	139	42.3	105	7.52	5.9	22.3	790	987	20%
75	173	52.8	105	7.50	5.5	20.8	788	984	23%
90	208	63.4	105	7.47	5.1	19.3	784	980	25%
105	243	73.9	105	7.43	4.7	17.8	780	975	28%
120	277	84.5	105	7.35	4.3	16.3	772	965	29%
135	312	95.1	105	7.23	3.8	14.4	759	949	29%
150	347	105.6	105	7.08	3.3	12.5	743	929	29%
165	381	116.2	105	6.87	2.8	10.6	721	902	28%
180	416	126.8	105	6.59	2.2	8.3	692	865	25%
195	450	137.3	105	6.22	1.5	5.7	653	816	19%
210	485	147.9	105	5.76	0.8	3.0	605	756	12%
225	520	158.5	105	5.34	0.0	0.0	561	701	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	Motor Voltage	Motor Amps	U.S. GPM	LPM	Motor Watts	Panel Watts*	System Efficiency
0	0	0.0	120	8.70	8.2	30.8	1044	1305	0%
15	35	10.6	120	8.69	7.9	29.9	1043	1304	5%
30	69	21.1	120	8.70	7.6	28.7	1044	1305	9%
45	104	31.7	120	8.71	7.3	27.4	1045	1307	14%
60	139	42.3	120	8.72	6.9	26.1	1046	1308	17%
75	173	52.8	120	8.71	6.6	24.8	1045	1307	20%
90	208	63.4	120	8.70	6.2	23.5	1044	1305	23%
105	243	73.9	120	8.68	5.8	22.1	1042	1302	26%
120	277	84.5	120	8.65	5.5	20.8	1038	1298	28%
135	312	95.1	120	8.60	5.1	19.3	1032	1290	29%
150	347	105.6	120	8.51	4.7	17.8	1021	1277	30%
165	381	116.2	120	8.41	4.3	16.1	1009	1262	30%
180	416	126.8	120	8.26	3.8	14.4	991	1239	30%
195	450	137.3	120	8.09	3.3	12.5	971	1214	29%
210	485	147.9	120	7.89	2.8	10.4	947	1184	27%
225	520	158.5	120	7.59	2.2	8.1	911	1139	23%
240	554	169.0	120	7.24	1.5	5.7	869	1086	18%
255	589	179.6	120	6.85	0.8	3.0	822	1028	11%
270	624	190.2	120	6.40	0.0	0.0	768	960	0%

\* Peak panel watts using a 20% deration factor.

Suggested solar module array: 16-70 to 80 watt modules wired in 2 parallel strings of 8 in series.