

SunPumps Brushless DC Submersible

MODEL SCS 10-400

2 HP Motor

PSI	TDH Feet	TDH Meters	VOLTAGE	AMPS	U.S. GPM	LPM	Motor Watts	Panel Watts	Efficiency
0	0	0.0	120	5.73	15.0	56.8	688	860	0%
20	46	14.1	120	5.84	13.7	51.7	701	876	17%
40	92	28.2	120	5.97	12.1	45.8	716	896	29%
60	139	42.3	120	6.03	10.5	39.7	724	905	38%
80	185	56.3	120	5.98	8.5	32.2	718	897	41%
100	231	70.4	120	5.64	5.8	22.0	677	846	37%
120	277	84.5	120	4.48	1.7	6.4	538	672	17%

Suggested solar module array: 16-55 to 60 watt modules wired in 2 parallel strings of 8 in series.

PSI	TDH Feet	TDH Meters	DEL SCS	DEL SCS	U.S. GPM	LPM	Motor Watts	Panel Watts	Efficiency
0	0	0.0	135	6.65	17.0	64.3	898	1122	0%
20	46	14.1	135	6.76	15.6	59.0	913	1141	15%
40	92	28.2	135	6.88	14.2	53.7	929	1161	27%
60	139	42.3	135	6.99	12.8	48.4	944	1180	35%
80	185	56.3	135	7.00	11.0	41.6	945	1181	41%
100	231	70.4	135	6.94	9.1	34.4	937	1171	42%
120	277	84.5	135	6.60	6.8	25.7	891	1114	40%
140	323	98.6	135	5.64	3.5	13.2	761	952	28%
160	370	112.7	135	4.34	0.0	0.0	586	732	0%

Suggested solar module array: 18-64 to 80 watt modules wired in 2 parallel strings of 9 in series.

PSI	TDH Feet	TDH Meters	DEL SCS	DEL SCS	U.S. GPM	LPM	Motor Watts	Panel Watts	Efficiency
0	0	0.0	150	7.55	18.6	70.4	1133	1416	0%
20	46	14.1	150	7.61	17.3	65.5	1142	1427	13%
40	92	28.2	150	7.77	15.9	60.2	1166	1457	24%
60	139	42.3	150	7.89	14.6	55.1	1184	1479	32%
80	185	56.3	150	7.96	13.2	50.0	1194	1493	38%
100	231	70.4	150	7.94	11.7	44.3	1191	1489	43%
120	277	84.5	150	7.88	10.0	37.9	1182	1478	44%
140	323	98.6	150	7.57	7.8	29.5	1136	1419	42%
160	370	112.7	150	6.87	5.0	18.9	1031	1288	34%
180	416	126.8	150	5.72	2.0	7.6	858	1073	18%
200	462	140.9	150	4.83	0.0	0.0	725	906	0%

Suggested solar module array: 20-75 to 90 watt modules wired in 2 parallel strings of 10 in series.

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PSI	TDH Feet	TDH Meters	DEL SCS	DEL SCS	U.S. GPM	LPM	Motor Watts	Panel Watts	Efficiency
0	0	0.0	180	9.39	21.0	79.5	1690	2113	0%
20	46	14.1	180	9.45	20.0	75.7	1701	2126	10%
40	92	28.2	180	9.62	19.0	71.9	1732	2165	19%
60	139	42.3	180	9.72	18.1	68.3	1750	2187	27%
80	185	56.3	180	9.83	16.9	64.0	1769	2212	33%
100	231	70.4	180	9.90	15.7	59.4	1782	2228	38%
120	277	84.5	180	9.91	14.3	54.1	1784	2230	42%
140	323	98.6	180	9.87	12.9	48.8	1777	2221	44%
160	370	112.7	180	9.79	11.5	43.5	1762	2203	45%
180	416	126.8	180	9.58	9.9	37.5	1724	2156	45%
200	462	140.9	180	9.18	7.9	29.9	1652	2066	42%
220	508	154.9	180	8.50	5.6	21.0	1530	1913	35%
240	554	169.0	180	7.53	3.1	11.7	1355	1694	24%
260	601	183.1	180	6.46	0.7	2.6	1163	1454	7%

* Peak panel watts using a 20% deration factor.

Suggested solar module array: 24-90 to 100 watt modules wired in 2 parallel strings of 12 in series, or
 36-60 to 70 watt modules wired in 3 parallel strings of 12 in series.