

SunPumps Brushless DC Submersible

MODEL SCS 3-425

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	75	6.00	5.2	19.7	450	563	0%
20	46	14.1	75	6.03	4.8	18.2	452	565	9%
40	92	28.2	75	6.04	4.4	16.7	453	566	17%
60	139	42.3	75	6.00	3.9	14.8	450	563	23%
80	185	56.3	75	5.95	3.3	12.5	446	558	26%
100	231	70.4	75	5.80	2.6	9.8	435	544	26%
120	277	84.5	75	5.51	1.8	6.8	413	517	23%
140	323	98.6	75	5.00	0.8	3.0	375	469	13%

Suggested solar module array: 10-53 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	Panel Watts*	System Efficiency
0	0	0.0	90	7.40	6.10	23.1	666	833	0%
20	46	14.1	90	7.40	5.70	21.6	666	833	7%
40	92	28.2	90	7.42	5.30	20.1	668	835	14%
60	139	42.3	90	7.42	4.90	18.5	668	835	19%
80	185	56.3	90	7.40	4.5	17.0	666	833	24%
100	231	70.4	90	7.34	4.0	15.1	661	826	26%
120	277	84.5	90	7.23	3.5	13.2	651	813	28%
140	323	98.6	90	7.07	2.9	11.0	636	795	28%
160	370	112.7	90	6.78	2.2	8.3	610	763	25%
180	416	126.8	90	6.39	1.4	5.3	575	719	19%
200	462	140.9	90	5.84	0.5	1.9	526	657	8%

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	Panel Watts*	System Efficiency
0	0	0.0	105	8.76	7.0	26.6	920	1150	0%
20	46	14.1	105	8.79	6.7	25.4	923	1154	6%
40	92	28.2	105	8.80	6.3	23.8	924	1155	12%
60	139	42.3	105	8.81	5.9	22.3	925	1156	17%
80	185	56.3	105	8.80	5.5	20.8	924	1155	21%
100	231	70.4	105	8.77	5.1	19.3	921	1151	24%
120	277	84.5	105	8.73	4.7	17.6	917	1146	26%
140	323	98.6	105	8.66	4.2	15.9	909	1137	28%
160	370	112.7	105	8.53	3.8	14.2	896	1120	29%
180	416	126.8	105	8.37	3.2	12.1	879	1099	29%
200	462	140.9	105	8.12	2.6	9.8	853	1066	27%
220	508	154.9	105	7.78	1.9	7.2	817	1021	22%
240	554	169.0	105	7.36	1.2	4.5	773	966	16%
260	601	183.1	105	6.83	0.3	1.1	717	896	5%

* 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.