

SunPumps Brushless DC Submersible

MODEL SCS 12-95

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	30	4.57	12.2	46.0	137	171	0%
5	12	3.5	30	4.57	10.8	40.9	137	171	17%
10	23	7.0	30	4.47	8.5	32.2	134	168	28%
15	35	10.6	30	4.21	5.4	20.4	126	158	28%
20	46	14.1	30	3.11	0.0	0.0	93	117	0%

Suggested solar module arrangement: 2-80 to 90 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	45	6.98	17.6	66.6	314	393	0%
5	12	3.5	45	6.98	16.5	62.5	314	393	11%
10	23	7.0	45	6.97	15.2	57.5	314	392	21%
15	35	10.6	45	6.90	13.8	52.2	311	388	29%
20	46	14.1	45	6.77	12.1	45.8	305	381	35%
25	58	17.6	45	6.60	10.0	37.9	297	371	37%
30	69	21.1	45	6.34	7.9	29.9	285	357	36%
35	81	24.6	45	5.87	5.4	20.4	264	330	31%
40	92	28.2	45	4.82	1.5	5.7	217	271	12%
45	104	31.7	45	4.50	0.0	0.0	203	253	0%

Suggested solar module arrangement: 6-65 to 75 watt modules wired in 2 parallel strings of 3 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	60	9.38	21.9	82.9	563	704	0.0%
5	12	3.5	60	9.37	21.0	79.5	562	703	8.1%
10	23	7.0	60	9.36	20.1	76.1	562	702	15.6%
15	35	10.6	60	9.34	19.1	72.3	560	701	22.2%
20	46	14.1	60	9.36	18.0	68.1	562	702	27.9%
25	58	17.6	60	9.30	16.9	64.0	558	698	32.9%
30	69	21.1	60	9.21	15.5	58.7	553	691	36.6%
35	81	24.6	60	9.09	14.0	53.0	545	682	39.1%
40	92	28.2	60	8.90	12.3	46.6	534	668	40.1%
45	104	31.7	60	8.69	10.7	40.5	521	652	40.2%
50	116	35.2	60	8.38	9.0	34.1	503	629	38.9%
55	127	38.7	60	7.96	7.0	26.5	478	597	35.1%
60	139	42.3	60	7.29	4.4	16.7	437	547	26.3%
65	150	45.8	60	6.44	1.1	4.2	386	483	8.1%
70	162	49.3	60	5.98	0.0	0.0	359	449	0.0%

* Peak Panel Watts using a 20% deration factor.

Suggested solar module arrangement: 8-85 to 95 watt modules wired in 2 parallel strings of 4 in series.