

SunPumps Brushless DC Submersible

MODEL SCS 6-140

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	3.83	6.2	23.5	115	144	0%
10	23	7.0	30	3.87	4.7	17.8	116	145	18%
20	46	14.1	30	3.61	2.7	10.2	108	135	22%
30	69	21.1	30	2.77	0.0	0.0	83	104	0%

arr module arrangement: 2-70 to 80 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	6.17	9.0	34.1	278	347	0%
10	23	7.0	45	6.18	8.0	30.3	278	348	13%
20	46	14.1	45	6.15	6.9	26.1	277	346	22%
30	69	21.1	45	5.97	5.6	21.2	269	336	27%
40	92	28.2	45	5.69	4.3	16.3	256	320	29%
50	116	35.2	45	5.19	2.5	9.5	234	292	23%
60	139	42.3	45	4.20	0.0	0.0	189	236	0%

arr module arrangement: 6-60 to 70 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	8.70	11.7	44.3	522	653	0%
10	23	7.0	60	8.73	10.9	41.3	524	655	9%
20	46	14.1	60	7.72	10.1	38.2	463	579	19%
30	69	21.1	60	8.70	9.2	34.8	522	653	23%
40	92	28.2	60	8.62	8.2	31.0	517	647	28%
50	116	35.2	60	8.44	7.1	26.9	506	633	31%
60	139	42.3	60	8.24	6.0	22.7	494	618	32%
70	162	49.3	60	7.89	4.8	18.2	473	592	31%
80	185	56.3	60	7.41	3.5	13.2	445	556	27%
90	208	63.4	60	6.73	1.9	7.2	404	505	18%
100	231	70.4	60	5.73	0.0	0.0	344	430	0%

using a 20% deration factor.

arr module arrangement: 8-80 to 90 watt modules wired in 2 parallel strings of 4 in series.