

**SunPumps Brushless DC Submersible
Model SCS 24-140-105 BL**

105 Volt Panel Direct

1.5 HP Brushless DC Motor



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Model SCS 24-140-105 BL

120 V Brushless DC Motor

PSI	TDH Feet	TDH Meters	Motor Voltage	Motor Amps	U.S. GPM	LPM	Motor Watts	Solar Array *Watts	Efficiency
0	0	0.0	60	4.14	25.7	97.4	248	311	0%
5	12	3.5	60	4.47	23.6	89.3	268	335	19%
10	23	7.0	60	4.81	21.2	80.2	289	361	32%
15	35	10.6	60	5.07	18.1	68.5	304	380	39%
20	46	14.1	60	5.10	13.7	52.0	306	383	39%
25	58	17.6	60	4.77	8.1	30.7	286	358	31%
30	69	21.1	60	3.37	0.0	0.0	202	253	0%

PSI	TDH Feet	TDH Meters	Motor Voltage	Motor Amps	U.S. GPM	LPM	Motor Watts	Solar Array *Watts	Efficiency
0	0	0.0	75	5.77	31.8	120.4	433	541	0%
5	12	3.5	75	6.05	30.1	113.7	454	567	14%
10	23	7.0	75	6.40	28.3	107.1	480	600	26%
15	35	10.6	75	6.74	26.4	100.0	506	632	34%
20	46	14.1	75	7.00	24.3	92.0	525	656	40%
25	58	17.6	75	7.15	22.2	83.8	536	670	45%
30	69	21.1	75	7.18	19.6	74.1	539	673	47%
35	81	24.6	75	6.95	16.5	62.5	521	652	48%
40	92	28.2	75	6.45	12.5	47.3	484	605	45%
45	104	31.7	75	5.80	7.2	27.1	435	544	32%
51	118	35.9	75	4.54	0.0	0.0	341	426	0%

PSI	TDH Feet	TDH Meters	Motor Voltage	Motor Amps	U.S. GPM	LPM	Motor Watts	Solar Array *Watts	Efficiency
0	0	0.0	90	7.57	37.6	142.3	681	852	0%
5	12	3.5	90	7.76	36.1	136.7	698	873	11%
10	23	7.0	90	8.24	34.5	130.7	742	927	20%
15	35	10.6	90	8.50	32.9	124.6	765	956	28%
20	46	14.1	90	8.80	31.2	118.1	792	990	34%
25	58	17.6	90	9.02	29.5	111.7	812	1015	40%
30	69	21.1	90	9.29	27.6	104.4	836	1045	43%
35	81	24.6	90	9.35	25.5	96.5	842	1052	46%
40	92	28.2	90	9.38	23.2	87.9	844	1055	48%
45	104	31.7	90	9.32	20.6	77.8	839	1049	48%
50	116	35.2	90	8.96	17.8	67.2	806	1008	48%
55	127	38.7	90	8.46	14.5	54.9	761	952	46%
60	139	42.3	90	7.90	10.6	40.1	711	889	39%
65	150	45.8	90	7.34	5.9	22.3	661	826	25%
71	164	50.0	90	6.08	0.0	0.0	547	684	0%

PSI	TDH Feet	TDH Meters	Motor Voltage	Motor Amps	U.S. GPM	LPM	Motor Watts	Solar Array *Watts	Efficiency
0	0	0.0	105	9.48	43.2	163.5	995	1244	0%
5	12	3.5	105	9.65	42.0	158.8	1013	1267	9%
10	23	7.0	105	10.07	40.6	153.8	1057	1322	17%
15	35	10.6	105	10.37	39.3	148.9	1089	1361	24%
20	46	14.1	105	10.68	37.8	143.2	1121	1402	29%
25	58	17.6	105	10.94	36.3	137.5	1149	1436	34%
30	69	21.1	105	11.28	34.8	131.7	1184	1481	38%
35	81	24.6	105	11.53	33.2	125.5	1211	1513	42%
40	92	28.2	105	11.74	31.5	119.2	1233	1541	44%
45	104	31.7	105	11.86	29.7	112.4	1245	1557	47%
50	116	35.2	105	11.95	27.8	105.2	1255	1568	48%
55	127	38.7	105	11.95	25.7	97.4	1255	1568	49%
60	139	42.3	105	11.90	23.6	89.3	1250	1562	49%
65	150	45.8	105	11.57	21.4	80.9	1215	1519	50%
70	162	49.3	105	11.20	18.9	71.7	1176	1470	49%
75	173	52.8	105	10.64	16.2	61.3	1117	1397	47%
80	185	56.3	105	10.13	13.2	50.0	1064	1330	43%
85	196	59.9	105	9.45	9.6	36.5	992	1240	36%
90	208	63.4	105	8.64	5.1	19.3	907	1134	22%
95	219	66.9	105	7.84	0.0	0.0	823	1029	0%

* Solar Array watts using a 20% deration factor.