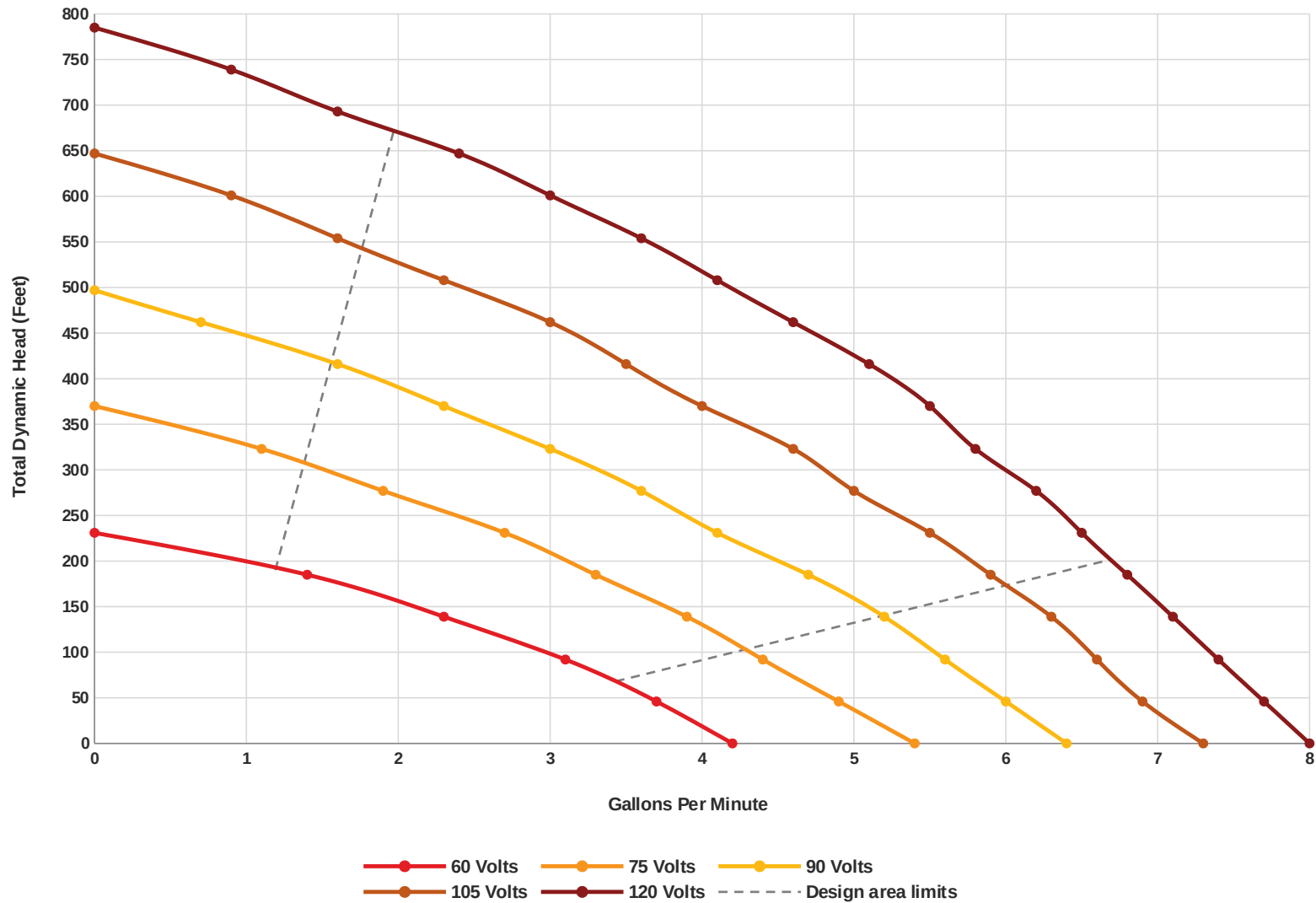


**SunPumps SCS 4.6-460-120 BL Brushless DC Submersible
120 Volt Panel Direct, 1.5 HP Brushless DC Motor**



SunPumps SCS 4.6-460-120 BL Brushless DC Submersible

Model SCS 4.6-460-120 BL, 1.5 HP Brushless DC Motor

60 Volt Panel Direct

PSI	TDH	TDH	Motor	Motor	U.S.		Motor	Solar Array	System
	Feet	Meters	Voltage	Amps	GPM	LPM	Watts	*Watts	Efficiency
0	0	0.0	60	4.4	4.2	16.0	262	328	0%
20	46	14.1	60	4.4	3.7	14.1	263	329	12%
40	92	28.2	60	4.4	3.1	11.6	262	328	20%
60	139	42.3	60	4.3	2.3	8.7	256	320	23%
80	185	56.3	60	3.9	1.4	5.1	232	290	20%
100	231	70.4	60	3.1	0.0	0.0	187	233	0%

75 Volt Panel Direct

PSI	TDH	TDH	Motor	Motor	U.S.		Motor	Solar Array	System
	Feet	Meters	Voltage	Amps	GPM	LPM	Watts	*Watts	Efficiency
0	0	0.0	75	6.0	5.4	20.2	453	566	0%
20	46	14.1	75	6.1	4.9	18.6	454	567	9%
40	92	28.2	75	6.1	4.4	16.8	455	568	17%
60	139	42.3	75	6.0	3.9	14.8	453	566	23%
80	185	56.3	75	5.9	3.3	12.6	446	557	26%
100	231	70.4	75	5.7	2.7	10.1	430	537	27%
120	277	84.5	75	5.3	1.9	7.3	401	501	25%
140	323	98.6	75	4.6	1.1	4.0	346	432	19%
160	370	112.7	75	4.2	0.0	0.0	314	393	0%

90 Volt Panel Direct

PSI	TDH	TDH	Motor	Motor	U.S.		Motor	Solar Array	System
	Feet	Meters	Voltage	Amps	GPM	LPM	Watts	*Watts	Efficiency
0	0	0.0	90	8.0	6.4	24.2	717	897	0%
20	46	14.1	90	8.0	6.0	22.8	718	898	7%
40	92	28.2	90	8.0	5.6	21.3	719	899	14%
60	139	42.3	90	8.0	5.2	19.5	719	899	19%
80	185	56.3	90	8.0	4.7	17.7	718	898	23%
100	231	70.4	90	7.9	4.1	15.6	713	891	25%
120	277	84.5	90	7.8	3.6	13.6	705	881	27%
140	323	98.6	90	7.6	3.0	11.2	686	857	26%
160	370	112.7	90	7.3	2.3	8.7	655	819	25%
180	416	126.8	90	6.7	1.6	5.9	601	752	20%
200	462	140.9	90	5.9	0.7	2.7	527	658	12%
215	497	151.4	90	5.4	0.0	0.0	487	609	0%

105 Volt Panel Direct

PSI	TDH	TDH	Motor	Motor	U.S.		Motor	Solar Array	System
	Feet	Meters	Voltage	Amps	GPM	LPM	Watts	*Watts	Efficiency
0	0	0.0	105	9.9	7.3	27.4	1037	1297	0%
20	46	14.1	105	9.9	6.9	26.2	1043	1303	6%
40	92	28.2	105	10.0	6.6	25.0	1046	1307	11%
60	139	42.3	105	10.0	6.3	23.7	1047	1309	16%
80	185	56.3	105	10.0	5.9	22.2	1047	1309	20%
100	231	70.4	105	10.0	5.5	20.7	1048	1310	23%
120	277	84.5	105	9.9	5.0	19.0	1044	1305	25%
140	323	98.6	105	9.9	4.6	17.2	1034	1293	27%
160	370	112.7	105	9.7	4.0	15.3	1023	1278	28%
180	416	126.8	105	9.5	3.5	13.4	1000	1250	28%
200	462	140.9	105	9.3	3.0	11.2	974	1218	26%
220	508	154.9	105	8.9	2.3	8.9	933	1167	24%
240	554	169.0	105	8.3	1.6	6.2	874	1092	20%
260	601	183.1	105	7.6	0.9	3.4	795	994	13%
280	647	197.2	105	6.8	0.0	0.0	713	891	0%

120 Volt Panel Direct

PSI	TDH	TDH	Motor	Motor	U.S.		Motor	Solar Array	System
	Feet	Meters	Voltage	Amps	GPM	LPM	Watts	*Watts	Efficiency
0	0	0.0	120	12.3	8.0	30.4	1477	1847	0%
20	46	14.1	120	11.9	7.7	29.3	1430	1788	5%
40	92	28.2	120	11.9	7.4	28.1	1430	1788	9%
60	139	42.3	120	12.0	7.1	27.0	1436	1796	13%
80	185	56.3	120	12.0	6.8	25.8	1436	1796	17%
100	231	70.4	120	12.0	6.5	24.6	1436	1796	20%
120	277	84.5	120	11.9	6.2	23.3	1432	1790	22%
140	323	98.6	120	11.9	5.8	22.0	1432	1790	25%
160	370	112.7	120	11.9	5.5	20.6	1427	1784	27%
180	416	126.8	120	11.9	5.1	19.1	1424	1781	28%
200	462	140.9	120	11.9	4.6	17.4	1428	1785	28%
220	508	154.9	120	11.6	4.1	15.5	1386	1733	28%
240	554	169.0	120	11.4	3.6	13.4	1373	1716	27%
260	601	183.1	120	11.1	3.0	11.3	1327	1659	25%
280	647	197.2	120	10.7	2.4	8.9	1278	1598	23%
300	693	211.3	120	10.1	1.6	6.1	1217	1521	17%
320	739	225.4	120	9.4	0.9	3.3	1133	1416	11%
340	785	239.5	120	8.5	0.0	0.0	1014	1268	0%

* Solar Array watts using a 20% deration factor.