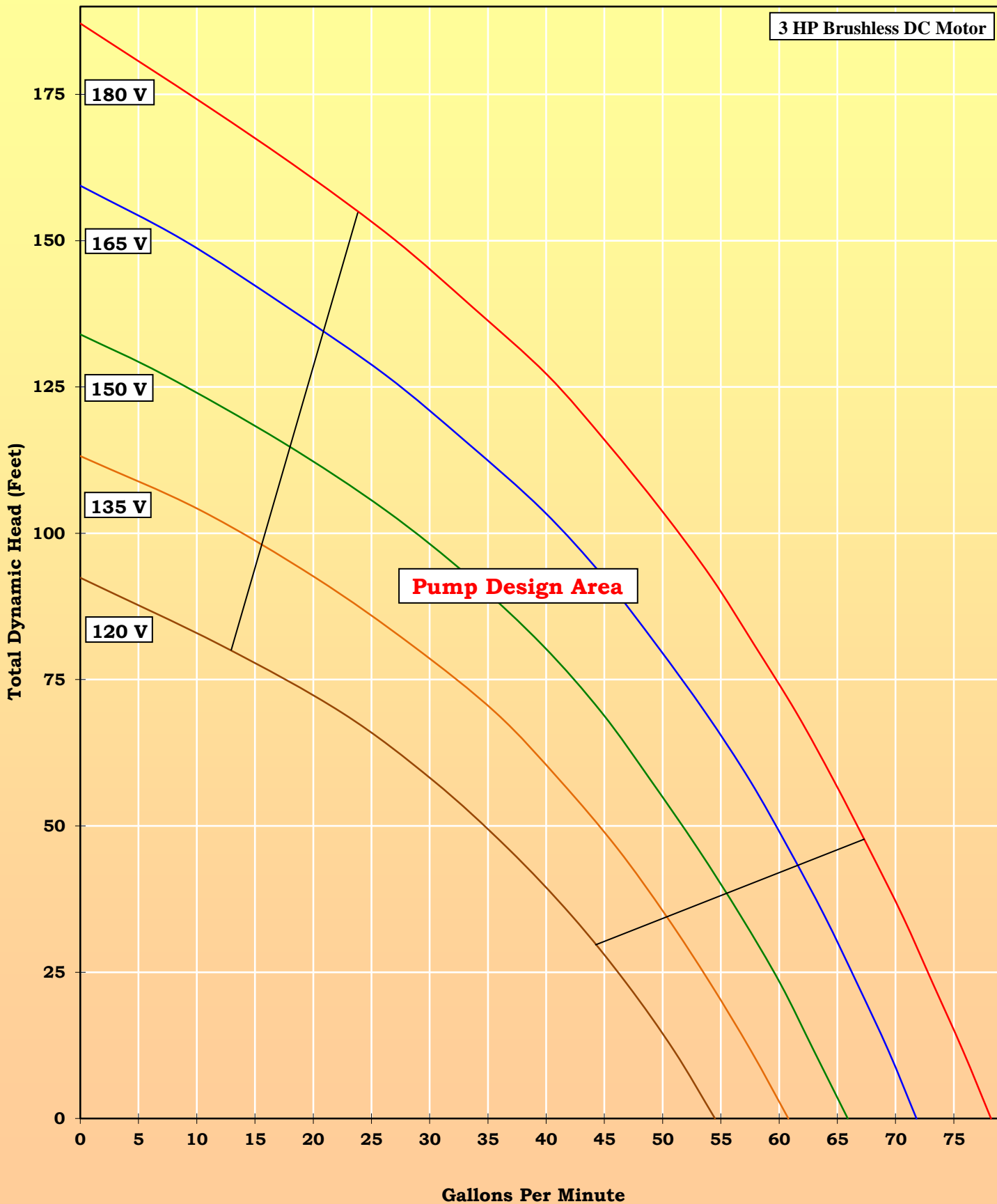


SunPumps Brushless DC Submersible Model SCS 45-116-180 BL

180 Volt Panel Direct

3 HP Brushless DC Motor



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3 HP Brushless DC Motor

180 Volt Panel Direct System

PSI	TDH Feet	TDH Meters	Motor Voltage	Motor Amps	U.S. GPM	LPM	Motor Watts	Solar Array Watts *	System Efficiency
0	0	0.0	120	5.0	54.5	206.3	601	752	0%
5	12	3.5	120	5.5	51.0	193.0	659	824	17%
10	23	7.0	120	5.8	46.9	177.5	692	866	29%
15	35	10.6	120	6.0	42.2	159.7	715	894	39%
20	46	14.1	120	6.0	36.7	138.9	721	902	44%
25	58	17.6	120	6.0	30.3	114.7	714	893	46%
30	69	21.1	120	5.4	22.5	85.2	652	815	45%
35	81	24.6	120	4.6	12.1	45.8	546	683	34%
40	92	28.2	120	3.6	0.0	0.0	437	546	0%

PSI	TDH Feet	TDH Meters	Motor Voltage	Motor Amps	U.S. GPM	LPM	Motor Watts	Solar Array Watts *	System Efficiency
0	0	0.0	135	6.0	60.8	230.1	806	1007	0%
5	12	3.5	135	6.5	57.6	218.0	876	1095	14%
10	23	7.0	135	6.8	54.1	204.8	917	1146	26%
15	35	10.6	135	7.0	50.3	190.4	946	1183	35%
20	46	14.1	135	7.2	46.1	174.5	972	1215	41%
25	58	17.6	135	7.3	41.2	155.9	979	1223	46%
30	69	21.1	135	7.2	35.7	135.1	973	1217	48%
35	81	24.6	135	6.9	28.5	107.9	933	1166	47%
40	92	28.2	135	6.3	20.2	76.5	844	1055	42%
45	104	31.7	135	5.3	10.3	39.0	711	889	28%
49	113	34.5	135	4.4	0.0	0.0	594	743	0%

PSI	TDH Feet	TDH Meters	Motor Voltage	Motor Amps	U.S. GPM	LPM	Motor Watts	Solar Array Watts *	System Efficiency
0	0	0.0	150	7.0	65.9	249.4	1047	1309	0%
5	12	3.5	150	7.2	63.0	238.5	1073	1341	13%
10	23	7.0	150	7.8	60.1	227.5	1163	1453	22%
15	35	10.6	150	8.0	56.7	214.6	1196	1494	31%
20	46	14.1	150	8.2	53.0	200.6	1232	1539	37%
25	58	17.6	150	8.3	49.0	185.5	1247	1558	43%
30	69	21.1	150	8.3	44.8	169.6	1248	1560	47%
35	81	24.6	150	8.3	39.7	150.3	1247	1558	49%
40	92	28.2	150	8.0	33.5	126.8	1206	1508	48%
45	104	31.7	150	7.6	26.2	99.2	1136	1419	45%
50	116	35.2	150	6.8	17.4	65.9	1019	1273	37%
55	127	38.7	150	5.9	7.2	27.3	878	1097	20%
58	134	40.8	150	5.1	0.0	0.0	767	958	0%

PSI	TDH Feet	TDH Meters	Motor Voltage	Motor Amps	U.S. GPM	LPM	Motor Watts	Solar Array Watts *	System Efficiency
0	0	0.0	165	8.3	71.8	271.8	1363	1704	0%
5	12	3.5	165	8.4	69.4	262.7	1381	1726	11%
10	23	7.0	165	9.0	66.7	252.5	1492	1865	19%
15	35	10.6	165	9.3	63.9	241.9	1533	1916	27%
20	46	14.1	165	9.5	60.8	230.1	1569	1961	34%
25	58	17.6	165	9.7	57.5	217.6	1599	1999	39%
30	69	21.1	165	9.8	53.7	203.3	1619	2023	43%
35	81	24.6	165	9.9	49.5	187.4	1629	2036	46%
40	92	28.2	165	9.9	45.0	170.3	1629	2036	48%
45	104	31.7	165	9.7	39.7	150.3	1597	1997	49%
50	116	35.2	165	9.4	33.2	125.7	1548	1935	47%
55	127	38.7	165	8.8	26.2	99.2	1457	1821	43%
60	139	42.3	165	8.1	17.8	67.4	1332	1664	35%
65	150	45.8	165	7.1	8.8	33.3	1175	1469	21%
69	159	48.6	165	6.0	0.0	0.0	985	1231	0%

PSI	TDH Feet	TDH Meters	Motor Voltage	Motor Amps	U.S. GPM	LPM	Motor Watts	Solar Array Watts *	System Efficiency
0	0	0.0	180	9.2	78.2	296.0	1661	2077	0%
5	12	3.5	180	9.3	75.8	286.9	1681	2102	10%
10	23	7.0	180	10.0	73.2	277.1	1802	2252	18%
15	35	10.6	180	10.3	70.6	267.2	1854	2318	25%
20	46	14.1	180	10.6	67.7	256.2	1901	2376	31%
25	58	17.6	180	10.8	64.7	244.9	1940	2426	36%
30	69	21.1	180	11.0	61.5	232.8	1973	2466	41%
35	81	24.6	180	11.0	57.9	219.2	1987	2484	44%
40	92	28.2	180	11.2	54.2	205.1	2012	2516	47%
45	104	31.7	180	11.2	49.9	188.9	2018	2522	48%
50	116	35.2	180	11.1	45.2	171.1	1994	2493	49%
55	127	38.7	180	10.9	40.1	151.8	1966	2457	49%
60	139	42.3	180	10.5	33.7	127.6	1888	2360	47%
65	150	45.8	180	9.8	27.0	102.2	1759	2198	43%
70	162	49.3	180	9.2	19.2	72.7	1647	2059	36%
75	173	52.8	180	8.3	10.7	40.5	1496	1870	23%
81	187	57.0	180	6.9	0.0	0.0	1242	1553	0%

* Solar array watts using a 20% deration factor.