

BrotherHobby 2816 1050KV

ESC signal (µs)	Torque (N-m)	Thrust (gf)	Voltage (V)	Current (A)	Motor Electrical Speed (RPM)	Electrical Power (W)	Mechanical Power (W)	Motor Efficiency (%)	Propeller Mech. Efficiency (gf/W)	Overall Efficiency (gf/W)	Battery / Propeller
10%	0.003	73.280	16.042	0.282	1604.000	4.527	0.439	9.688		16.192	HQPROP 8X4X3
20%	0.009	113.294	16.036	0.720	3120.000	11.540	2.868	24.865		39.562	Power Supply
30%	0.019	186.267	16.025	1.433	4564.000	22.967	9.128	39.773		20.420	16V
40%	0.033	291.858	16.015	2.473	5936.000	39.610	20.521	51.824		14.224	
50%	0.050	429.283	15.996	4.010	7245.000	64.142	37.893	59.095		11.330	6.695
60%	0.071	595.922	15.976	5.986	8550.000	95.636	63.373	66.276		9.404	6.232
70%	0.095	799.723	15.950	8.623	9863.000	137.539	98.342	71.504		8.132	5.815
80%	0.126	1066.294	15.913	12.359	11276.000	196.678	148.666	75.635		7.173	5.424
90%	0.160	1346.423	15.863	16.636	12640.000	263.905	212.002	80.351		6.351	5.103
100%	0.198	1651.966	15.802	22.297	13972.000	352.331	289.620	82.203		5.704	4.689
10%	0.005	23.646	21.213	0.342	2134.000	7.257	1.024	14.193		23.143	HQPROP 8X4X3
20%	0.015	101.150	21.207	0.954	4104.000	20.237	6.629	32.774		15.266	Power Supply
30%	0.032	228.437	21.195	1.947	5904.000	41.260	20.034	48.575		11.404	21V
40%	0.054	403.737	21.183	3.447	7527.000	73.012	42.507	58.231		9.499	5.531
50%	0.080	615.740	21.158	5.561	9119.000	117.664	76.407	64.945		8.059	5.234
60%	0.114	900.862	21.124	8.626	10683.000	182.220	127.617	70.036		7.060	4.944
70%	0.155	1245.243	21.085	12.924	12427.000	272.510	201.844	74.081		6.170	4.570
80%	0.206	1652.375	21.022	18.795	14275.000	395.106	308.057	77.986		5.364	4.183
90%	0.264	2114.513	20.949	26.080	15987.000	546.342	442.489	80.995		4.778	3.870
100%	0.321	2567.550	20.862	34.461	17306.000	718.921	581.178	80.839		4.419	3.571
10%	0.005	33.448	24.170	0.366	2427.000	9.335	1.237	13.556		25.593	HQPROP 8X4X3
20%	0.019	138.907	24.164	1.120	4677.000	27.065	9.183	33.940		15.158	Power Supply
30%	0.041	313.757	24.150	2.349	6716.000	56.731	28.643	50.569		10.971	24V
40%	0.071	549.825	24.130	4.277	8588.000	103.199	63.467	61.513		8.663	5.329
50%	0.105	839.419	24.101	7.022	10392.000	169.249	114.633	67.740		7.323	4.961
60%	0.148	1191.047	24.062	10.771	12187.000	259.168	188.417	72.713		6.322	4.596
70%	0.199	1608.607	24.005	16.214	14026.000	389.216	292.927	75.273		5.492	4.134
80%	0.263	2118.970	23.930	23.509	15914.000	562.554	438.788	78.002		4.829	3.767
90%	0.330	2641.932	23.836	32.287	17683.000	769.596	610.932	79.392		4.325	3.433
100%	0.398	3157.771	23.730	42.493	19111.000	1008.340	795.561	78.899		3.969	3.132
10%	0.007	31.318	16.033	0.281	1568.000	4.508	1.070	23.785		30.048	HQPROP 9X5X3
20%	0.022	124.084	16.026	0.942	2987.000	15.093	7.030	46.590		17.650	Power Supply
30%	0.045	267.189	16.009	2.145	4234.000	34.337	20.004	58.268		13.358	16V
40%	0.073	453.459	15.986	4.101	5348.000	65.563	41.160	62.808		11.018	6.919
50%	0.107	676.126	15.954	6.831	6386.000	108.990	71.650	65.745		9.437	6.204
60%	0.147	942.049	15.921	10.678	7455.000	169.998	114.842	67.557		8.203	5.542
70%	0.198	1271.626	15.867	15.942	8586.000	252.951	178.293	70.486		7.132	5.027
80%	0.257	1646.715	15.800	22.717	9779.000	358.912	263.130	73.317		6.258	4.588
90%	0.329	2085.630	15.712	31.635	10849.000	497.034	373.867	75.228		5.579	4.196
100%	0.391	2470.976	15.610	41.582	11734.000	649.082	480.389	74.011		5.144	3.807
10%	0.011	55.653	21.259	0.368	2086.000	7.821	2.409	31.013		23.408	HQPROP 9X5X3
20%	0.038	219.203	21.248	1.362	3891.000	28.933	15.384	53.177		14.252	Power Supply
30%	0.076	468.868	21.229	3.205	5432.000	68.045	43.121	63.379		10.876	21V
40%	0.118	740.670	21.202	5.926	6741.000	125.634	83.180	66.211		8.905	5.896
50%	0.166	1060.506	21.162	9.815	7914.000	207.701	137.793	66.343		7.696	5.106
60%	0.223	1429.104	21.107	15.154	9149.000	319.847	213.867	66.868		6.682	4.468
70%	0.298	1905.444	21.031	22.875	10405.000	481.104	324.958	67.548		5.865	3.961
80%	0.389	2476.542	20.931	33.721	11706.000	705.806	477.280	67.622		5.190	3.509
90%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	
100%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	
10%	0.011	39.610	20.987	0.394	2064.000	8.267	2.330	28.362		17.062	HQPROP 9X5X3
20%	0.038	210.948	20.944	1.425	3921.000	29.844	15.543	52.149		13.583	Power Supply
30%	0.080	468.409	20.856	3.403	5571.000	70.978	46.556	65.600		10.062	6.600
40%	0.130	803.026	20.714	6.575	6988.000	136.187	95.371	70.047		8.421	5.898
50%	0.184	1151.523	20.513	10.778	8319.000	221.095	160.591	72.637		7.171	5.209
60%	0.245	1548.799	20.234	16.605	9533.000	335.980	244.359	72.734		6.338	4.610
70%	0.312	1974.763	19.885	23.871	10602.000	474.684	346.233	72.942		5.704	4.160
80%	0.372	2333.105	19.478	32.347	11640.000	630.063	453.780	72.025		5.141	3.703
90%	0.427	2686.030	19.048	41.338	12385.000	787.409	553.415	70.285		4.854	3.411
100%	0.473	2988.805	18.601	50.937	12962.000	947.478	641.846	67.744		4.657	3.155
10%	0.015	67.316	25.113	0.473	2464.000	11.891	3.789	32.064		18.111	HQPROP 9X5X3
20%	0.055	317.354	25.071	1.796	4623.000	45.022	26.637	59.175		11.914	Power Supply
30%	0.111	689.718	24.982	4.506	6489.000	112.564	75.601	67.175		9.123	6.128
40%	0.179	1132.022	24.837	8.674	8142.000	215.425	152.794	70.936		7.409	5.256
50%	0.254	1613.514	24.626	14.453	9636.000	355.927	256.550	72.085		6.289	4.534
60%	0.333	2101.097	24.342	22.120	11011.000	538.435	383.493	71.233		5.479	3.903
70%	0.414	2605.154	23.989	31.523	12025.000	756.201	521.703	68.994		4.994	3.445
80%	0.479	3022.620	23.587	41.430	12908.000	977.224	646.845	66.195		4.673	3.093
90%	0.536	3381.298	23.164	51.621	13415.000	1195.780	753.027	62.973		4.491	2.828
100%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	
10%	0.008	41.253	16.102	0.304	1555.000	4.890	1.352	27.654		30.743	HQPROP 10X5X3
20%	0.030	161.835	16.096	1.093	2911.000	17.592	9.023	51.298		17.937	Power Supply
30%	0.059	335.870	16.085	2.534	4027.000	40.753	24.719	60.663		13.587	16V
40%	0.095	555.041	16.067	4.885	5014.000	78.485	49.652	63.269		11.179	7.073
50%	0.137	816.832	16.040	8.314	5963.000	133.355	85.406	64.060		9.565	6.127
60%	0.186	1118.349	16.002	13.044	6949.000	208.728	135.598	64.966		8.248	5.358
70%	0.249	1507.091	15.948	19.604	7971.000	312.643	208.045	66.548		7.244	4.821
80%	0.323	1969.788	15.880	28.181	9016.000	447.502	304.929	68.143		6.461	4.402
90%	0.399	2411.050	15.799	38.124	10014.000	602.342	418.148	69.422		5.766	4.003
100%	0.462	2788.495	15.715	49.001	10711.000	770.063	517.723	67.233		5.386	3.621
10%	0.015	75.397	20.982	0.409	2041.000	8.591	3.115	36.403		24.401	HQPROP 10X5X3
20%	0.052	295.151	20.929	1.643	3800.000	34.378	20.638	60.044		14.302	Power Supply
30%	0.106	627.778	20.816	4.135	5297.000	86.084	58.741	68.258		10.689	7.295
40%	0.172	1039.316	20.626	8.215	6628.000	169.452	119.097	70.299		8.728	6.135
50%	0.237	1429.748	20.369	13.302	7803.000	270.945	193.634	71.471		7.384	5.277
60%	0.304	1844.828	20.037	19.939	8820.000	399.513	280.805	70.288		6.570	4.618
70%	0.372	2256.382	19.641	27.850	9692.000	546.996	377.394	68.995		5.979	4.125
80%	0.436	2636.237	19.201	37.110	10442.000	712.538	476.586	66.887		5.532	3.700
90%	0.493	2972.380	18.726	47.153	10948.000	883.013	565.495	64.042		5.256	3.366
100%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	

ESC signal (µs)	Torque (N-m)	Thrust (gf)	Voltage (V)	Current (A)	Motor Electrical Speed (RPM)	Electrical Power (W)	Mechanical Power (W)	Motor Efficiency (%)	Propeller Mech. Efficiency (gf/W)	Overall Efficiency (gf/W)	Battery / Propeller
10%	0.020	110.912	25.127	0.503	2421.000	12.638	5.126	40.801	21.864	8.812	HQPROP 10X5X3
20%	0.072	421.552	25.074	2.116	4427.000	53.057	33.484	63.129	12.593	7.948	Battery
30%	0.146	882.588	24.957	5.517	6152.000	137.682	94.243	68.470	9.366	6.413	6S
40%	0.229	1390.944	24.769	10.719	7629.000	265.506	183.043	68.944	7.599	5.239	
50%	0.317	1935.202	24.507	17.649	8869.000	432.536	294.188	68.018	6.578	4.474	
60%	0.396	2406.252	24.187	25.604	9896.000	619.282	410.029	66.212	5.869	3.886	
70%	0.467	2824.411	23.797	35.349	10825.000	841.209	529.939	63.000	5.330	3.358	
80%	0.531	3205.245	23.369	45.998	11431.000	1074.919	635.758	59.145	5.042	2.982	
90%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
100%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	