

# **Foxtech Diamond Pro Series CF Propeller**

## **Performance**

Diamond Pro Series Propeller

Motor		BEC		Environment Temp.		Environment Humidity		Propeller
4008-600KV		40A		25.4°C		48%		15*5
Voltage	Current	Thrust	Torque	Speed	Power	Efficiency	Motor Temp.	Throttle
(V)	(A)	( g )	(N.M)	( rpm)	( W )	( G/W)	( °C )	(%)
14.4	1.17	230	0.05	2320	12.87	17.87		30
14.4	1.66	315	0.07	2633	18.75	16.80		35
14.4	2.22	393	0.08	2927	25.13	15.64		40
14.4	2.89	478	0.10	3215	32.65	14.64		45
14.4	3.9	601	0.12	3575	44.54	13.49		50
14.4	5.33	774	0.15	3956	60.89	12.71		55
14.4	6.59	910	0.17	4222	76.03	11.97		60
14.4	7.87	1037	0.19	4509	88.75	11.68		65
14.4	9.2	1149	0.21	4751	102.47	11.21		70
14.4	10.79	1276	0.23	5009	120.62	10.58		75
14.4	12.49	1399	0.25	5249	136.84	10.22		80
14.4	14.18	1508	0.27	5483	155.00	9.73		85
14.4	16.12	1647	0.29	5695	174.71	9.43		90
14.4	18.17	1778	0.32	5906	194.78	9.13		95
14.4	21.21	1942	0.35	6192	223.66	8.68	56	100

Diamond Pro Series Propeller

Motor		BEC		Environment Temp.		Environment Humidity		Propeller
4008-380KV		40A		25.4°C		48%		16*6
Voltage	Current	Thrust	Torque	Speed	Power	Efficiency	Motor Temp.	Throttle
(V)	(A)	( g )	(N.M)	( rpm)	( W )	( G/W)	( °C )	(%)
22	0.67	239	0.05	1982	10.38	23.03		30
22	1.01	329	0.068	2292	16.32	20.16		35
22	1.34	411	0.084	2558	22.50	18.27		40
22	1.76	502	0.101	2798	29.59	16.97		45
22	2.29	611	0.122	3095	39.53	15.46		50
22	3.02	756	0.149	3407	53.15	14.22		55
22	3.84	888	0.177	3680	68.20	13.02		60
22	4.69	1009	0.201	3936	82.83	12.18		65
22	5.44	1108	0.221	4150	96.03	11.54		70
22	6.43	1250	0.247	4379	113.24	11.04		75
22	7.48	1378	0.272	4599	130.97	10.52		80
22	8.58	1504	0.297	4808	149.51	10.06		85
22	9.88	1648	0.325	5021	170.85	9.65		90
22	11.16	1769	0.35	5218	191.21	9.25		95
22	13.06	1961	0.385	5470	220.49	8.89	54	100

Diamond Pro Series Propeller

Motor		BEC		Environment Temp.		Environment Humidity		Propeller
5008-340KV		40A		25.4°C		48%		17*6
Voltage	Current	Thrust	Torque	Speed	Power	Efficiency	Motor Temp.	Throttle
(V)	(A)	(g)	(N.M)	(rpm)	(W)	(G/W)	(°C)	(%)
21.8	1.1	326	0.07	2037	15.36	21.23		30
21.8	1.52	426	0.09	2345	22.83	18.66		35
21.8	2.09	565	0.12	2627	33.28	16.98		40
21.8	2.92	734	0.15	3002	48.09	15.26		45
21.8	3.8	906	0.19	3303	63.98	14.16		50
21.8	4.84	1091	0.22	3615	84.02	12.98		55
21.8	5.98	1287	0.26	3907	104.72	12.29		60
21.8	7.09	1426	0.29	4170	124.87	11.42		65
21.8	8.39	1611	0.32	4418	148.48	10.85		70
21.8	9.88	1803	0.36	4663	176.73	10.20		75
21.8	11.5	2009	0.40	4903	205.34	9.78		80
21.8	13.24	2145	0.44	5135	237.10	9.05		85
21.8	15.02	2346	0.48	5362	267.79	8.76		90
21.8	17.09	2622	0.52	5574	302.89	8.66		95
21.8	20.31	2953	0.58	5882	358.42	8.24	68	100

Diamond Pro Series Propeller

Motor		BEC		Environment Temp.		Environment Humidity		Propeller
5008-340KV		40A		25.4°C		48%		18*6.5
Voltage	Current	Thrust	Torque	Speed	Power	Efficiency	Motor Temp.	Throttle
(V)	(A)	( g )	(N.M)	( rpm)	( W )	( G/W)	( °C )	(%)
21.7	1.23	380	0.09	1996	18.60	20.43		30
21.7	1.74	506	0.12	2289	27.80	18.20		35
21.7	2.33	638	0.14	2551	38.19	16.70		40
21.7	3.52	885	0.20	2959	60.41	14.65		45
21.7	4.6	1066	0.23	3254	79.38	13.43		50
21.7	5.72	1243	0.27	3550	101.10	12.29		55
21.7	7.07	1466	0.32	3818	126.32	11.61		60
21.7	8.54	1678	0.36	4072	153.06	10.96		65
21.7	10.03	1861	0.40	4300	179.18	10.39		70
21.7	11.7	2058	0.44	4531	210.16	9.79		75
21.7	13.57	2274	0.49	4756	243.00	9.36		80
21.7	15.49	2489	0.53	4975	277.11	8.98		85
21.7	17.74	2717	0.58	5182	315.77	8.60		90
21.7	20.03	2945	0.63	5383	354.50	8.31		95
21.7	23.61	3270	0.70	5656	412.75	7.92	72	100

Diamond Pro Series Propeller

Motor		BEC		Environment Temp.		Environment Humidity		Propeller
6008-160KV		80A		27.4°C		78%		22*7.8
Voltage	Current	Thrust	Torque	Speed	Power	Efficiency	Motor Temp.	Input Pulse Width
(V)	(A)	(g)	(N.M)	(rpm)	(W)	(G/W)	(°C)	(us)
44.4	0.3	510	0.18	1480	28.47	17.91		1310
44.4	1.3	1020	0.29	2080	63.65	16.03		1428
44.4	2.7	1510	0.39	2540	103.78	14.55		1504
44.4	4.3	2040	0.50	2957	155.50	13.12		1587
44.4	6.1	2520	0.61	3245	206.91	12.18		1656
44.4	8.1	3020	0.73	3578	274.03	11.02		1724
44.4	10.5	3510	0.85	3850	344.24	10.20		1792
44.4	12.9	4010	0.96	4092	412.37	9.72		1852

Diamond Pro Series Propeller

Motor		BEC		Environment Temp.		Environment Humidity		Propeller
MAD-M6 C12-150KV		80A		30°C		6639%%		24*7.8
Voltage	Current	Thrust	Torque	Speed	Power	Efficiency	Motor Temp.	Input Pulse Width
(V)	(A)	(g)	(N.M)	(rpm)	(W)	(G/W)	(°C)	(us)
48.2	1.4	1000	0.28	1750	51.30	19.49		1340
48.2	2.4	1530	0.41	2100	90.15	16.97		1380
48.2	4.1	2280	0.61	2580	164.78	13.84		1460
48.2	6.9	3290	0.89	3080	287.00	11.46		1540
48.2	11.1	4480	1.20	3590	451.05	9.93		1620
48.2	15.9	5630	1.53	4010	642.37	8.76		1700
48.2	21.3	6760	1.85	4400	852.26	7.93		1780
48.2	28.5	7990	2.22	4770	1108.71	7.21		1860
48.2	33	8750	2.45	4990	1280.01	6.84		1900

Diamond Pro Series Propeller

Motor		BEC		Environment Temp.		Environment Humidity		Propeller
MAD-M6 260KV		80A		11.4°C		66%		26*8.2
Voltage	Current	Thrust	Torque	Speed	Power	Efficiency	Motor Temp.	Input Pulse Width
(V)	(A)	(g)	(N.M)	(rpm)	(W)	(G/W)	(°C)	(us)
44.4	0.6	1000	0.14	1486	21.78	45.91		1360
44.4	1.5	1510	0.22	1829	42.90	35.20		1426
44.4	2.6	2000	0.35	2098	77.65	25.76		1478
44.4	4.2	2500	0.53	2362	130.70	19.13		1536
44.4	5.6	3030	0.68	2577	182.26	16.62		1588
44.4	7.5	3520	0.82	2806	241.13	14.60		1640
44.4	9.3	4000	0.98	2960	303.71	13.17		1678
44.4	11.1	4510	1.13	3094	364.52	12.37		1716
44.4	13.3	5000	1.24	3299	429.17	11.65		1763
44.4	15.7	5500	1.42	3470	517.53	10.63		1804
44.4	18.1	6020	1.56	3600	589.69	10.21		1844
44.4	20.6	6500	1.74	3743	683.07	9.52		1891
44.4	23.4	7010	1.90	3850	767.49	9.13		1920



Diamond Pro Series Propeller

Motor		BEC		Environment Temp.		Environment Humidity		Propeller
MAD M8-85KV		80A		30.5°C		68%		28*12
Voltage	Current	Thrust	Torque	Speed	Power	Efficiency	Motor Temp.	Input Pulse Width
(V)	(A)	(g)	(N.M)	(rpm)	(W)	(G/W)	(°C)	(us)
44.4	1.2	1020	0.33	1120	38.79	26.30		1340
44.4	3.3	2060	0.72	1580	119.11	17.30		1460
44.4	5.6	3020	0.96	1896	190.57	15.85		1540
44.4	7.1	3520	1.20	2056	258.32	13.63		1580
44.4	8.8	4010	1.37	2200	315.57	12.71		1620
44.4	10.7	4520	1.56	2350	383.83	11.78		1660
44.4	12.7	5020	1.75	2450	448.90	11.18		1700
44.4	17.3	6010	2.13	2700	602.13	9.98		1780
44.4	22.9	7030	2.50	2942	770.07	9.13		1860
44.4	26.6	7460	2.69	3040	856.19	8.71		1900

Diamond Pro Series Propeller

Motor		BEC		Environment Temp.		Environment Humidity		Propeller
MAD M8-85KV		80A		31°C		77%		29*9.6
Voltage	Current	Thrust	Torque	Speed	Power	Efficiency	Motor Temp.	Input Pulse Width
(V)	(A)	( g )	(N.M)	( rpm)	( W )	( G/W)	( °C )	(us)
44.4	1.5	1150	0.38	1260	50.13	22.94		1380
44.4	2.8	1840	0.60	1610	101.14	18.19		1460
44.4	4.7	2650	0.85	1920	170.87	15.51		1540
44.4	7.4	3570	1.18	2240	276.74	12.90		1620
44.4	9.1	4110	1.34	2390	335.31	12.26		1660
44.4	12.6	5040	1.65	2660	459.53	10.97		1740
44.4	16.9	6120	2.01	2920	614.51	9.96		1820
44.4	23	7240	2.38	3190	794.90	9.11		1900

Diamond Pro Series Propeller

Motor		BEC		Environment Temp.		Environment Humidity		Propeller
MAD M10-90KV		80A		30.5°C		68%		30*9.8
Voltage	Current	Thrust	Torque	Speed	Power	Efficiency	Motor Temp.	Input Pulse Width
(V)	(A)	(g)	(N.M)	(rpm)	(W)	(G/W)	(°C)	(us)
48	1.8	1234	0.41	1294	55.41	22.27		1340
48	2.6	1624	0.53	1486	82.46	19.69		1380
48	3.5	2096	0.69	1699	123.10	17.03		1420
48	4.9	2701	0.89	1919	178.01	15.17		1460
48	6.2	3248	1.07	2104	234.61	13.84		1500
48	7.9	3886	1.26	2299	303.29	12.81		1540
48	10	4568	1.49	2497	388.76	11.75		1580
48	12.4	5321	1.74	2704	492.89	10.80		1620
48	15.3	6160	1.98	2911	604.38	10.19		1660
48	18.5	7013	2.32	3101	752.27	9.32		1700
48	21.8	7863	2.60	3285	895.27	8.78		1740
48	25.5	8771	2.90	3470	1055.05	8.31		1780
48	30	9664	3.20	3650	1224.42	7.89		1820
48	34.7	10772	3.55	3825	1423.30	7.57		1860
48	41.6	12143	4.03	4042	1705.49	7.12		1900

Diamond Pro Series Propeller

Motor		BEC		Environment Temp.		Environment Humidity		Propeller
MAD M10-100KV		80A		31.6°C		46%		32*12
Voltage	Current	Thrust	Torque	Speed	Power	Efficiency	Motor Temp.	Input Pulse Width
(V)	(A)	( g )	(N.M)	( rpm)	( W )	( G/W)	( °C )	(us)
44.4	0.8	1030	0.26	1034	28.23	36.49		1324
44.4	2.9	2050	0.65	1456	98.71	20.77		1420
44.4	5.2	3050	0.99	1750	181.81	16.78		1480
44.4	6.3	3520	1.18	1869	230.12	15.30		1508
44.4	8.0	4010	1.35	1994	281.69	14.24		1536
44.4	9.6	4580	1.57	2119	348.65	13.14		1568
44.4	11.1	5000	1.77	2223	410.97	12.17		1600
44.4	12.6	5500	1.94	2326	472.64	11.64		1624
44.4	14.9	6040	2.16	2440	550.79	10.97		1662
44.4	16.5	6510	2.30	2500	600.98	10.83		1676
44.4	19	7060	2.49	2630	684.27	10.32		1704
44.4	23.2	8080	2.95	2800	863.43	9.36		1752
44.4	27.1	9000	3.26	2942	1003.17	8.97		1790
44.4	31.9	10000	3.60	3079	1159.89	8.62		1832
44.4	38.2	11020	3.98	3260	1359.49	8.11		1880
44.4	44.8	12070	4.39	3420	1572.84	7.67		1940

Diamond Pro Series Propeller

Motor		BEC		Environment Temp.		Environment Humidity		Propeller
Kaiyue C10620-80KV		120A		13.6°C		66%		32.5*15.6
Voltage (V)	Current (A)	Thrust (g)	Torque (N.M)	Speed (rpm)	Power (W)	Efficiency (G/W)	Motor Temp. (°C)	Input Pulse Width (us)
96.25	1.39	1320	0.59	1084	66.96	19.71		1280
96.12	4.95	4247	1.76	1692	311.79	13.62		1280
95.97	10.13	7477	3.14	2232	733.79	10.19		1370
95.82	19.11	12245	5.44	2876	1638.08	7.48		1460
95.56	35.03	17928	7.42	3421	2657.69	6.75		1550
95.48	42.95	20378	8.5	3713	3304.38	6.17		1595
95.31	52.87	23760	9.91	3864	4009.20	5.93		1640
95.23	60.88	25067	10.68	4016	4490.68	5.58		1685
95.1	68.36	27403	11.63	4148	5050.86	5.43		1730
94.99	78.01	29289	12.44	4316	5621.45	5.21		1775
94.75	92.56	32640	14.01	4550	6674.15	4.89		1820
94.57	104.88	34965	15.06	4710	7426.64	4.71		1865
94.35	120.12	37081	16.19	4822	8173.74	4.54		1910