



4116-450KV

HIGH-PERFORMANCE BRUSHLESS MOTOR

Specification updated from the provided parameter sheet

BASIC PARAMETERS

KV Value	Slot/Pole	Shaft Diameter	Silicone Wire	Motor Weight (Incl. Cable)	Interphase Internal Resistance (Incl. Cable)	Working Voltage	No-load Current (10V)	Maximum Power	Maximum Current
450KV	12N14P	4mm	16#	199.1g	47.30 mΩ	6S	1.04 A	1435.24 W	61.70 A

TEST DATA — 16-INCH FOLDING PROPELLER

Motor Model	Propeller Model	Test Voltage	Throttle (%)	Voltage (V)	Current (A)	Speed (RPM)	Thrust (gf)	Power (W)	Efficiency (gf/W)
4116-450KV	DBonefpv 1660 Carbon Fiber Nylon Folding Propeller	6S	10	25.19	0.19	954.70	80.52	4.81	16.74
			20	25.18	1.00	1877.40	366.42	25.21	14.54
			30	25.14	2.65	2677.90	777.19	66.60	11.67
			40	25.04	6.02	3563.30	1383.40	150.69	9.18
			50	24.91	10.10	4215.10	1944.53	251.67	7.73
			60	24.71	17.43	5019.40	2760.99	430.77	6.41
			70	24.43	25.90	5654.60	3508.96	632.66	5.55
			80	24.10	35.61	6174.10	4198.75	858.25	4.89
			90	23.71	47.36	6622.60	4839.75	1122.91	4.31
			100	23.26	61.70	6999.50	5417.11	1435.24	3.77

TEST DATA — 15-INCH FOLDING PROPELLER

Motor Model	Propeller Model	Test Voltage	Throttle (%)	Voltage (V)	Current (A)	Speed (RPM)	Thrust (gf)	Power (W)	Efficiency (gf/W)
4116-450KV	Yuanzhou Power 15×6.0 Carbon Fiber Folding Propeller	6S	10	25.22	0.17	986.50	62.48	4.24	14.75
			20	25.21	0.77	1948.70	272.13	19.49	13.96
			30	25.18	2.05	2855.40	604.88	51.69	11.70
			40	25.13	4.21	3692.30	1025.00	105.77	9.69
			50	25.04	7.01	4391.40	1463.10	175.63	8.33
			60	24.88	12.64	5360.40	2197.09	314.43	6.99
			70	24.70	19.08	6112.70	2863.07	471.28	6.08
			80	24.44	26.65	6764.10	3515.61	651.20	5.40
			90	24.17	35.46	7348.70	4178.11	857.02	4.88
			100	23.80	47.09	7931.90	4880.82	1120.69	4.36

TEST DATA — 15.6-INCH FOLDING PROPELLER

Motor Model	Propeller Model	Test Voltage	Throttle (%)	Voltage (V)	Current (A)	Speed (RPM)	Thrust (gf)	Power (W)	Efficiency (gf/W)
4116-450KV	DBonefpv 1560 Carbon Fiber Nylon Folding Propeller	6S	10	25.18	0.18	972.50	76.78	4.56	16.85
			20	25.17	0.86	1915.70	314.33	21.72	14.47
			30	25.13	2.27	2749.20	672.05	56.97	11.80
			40	25.05	4.95	3622.90	1182.00	123.87	9.54
			50	24.94	8.26	4298.40	1666.16	205.98	8.09
			60	24.77	14.38	5159.70	2414.17	356.17	6.78
			70	24.51	21.91	5885.60	3135.86	536.92	5.84
			80	24.22	30.88	6492.40	3832.43	748.01	5.12
			90	23.89	40.55	6996.10	4480.97	968.81	4.63
			100	23.47	53.03	7482.70	5136.12	1244.61	4.13

* Technical specifications are based on the provided test sheet. Actual performance may vary in real-world use.