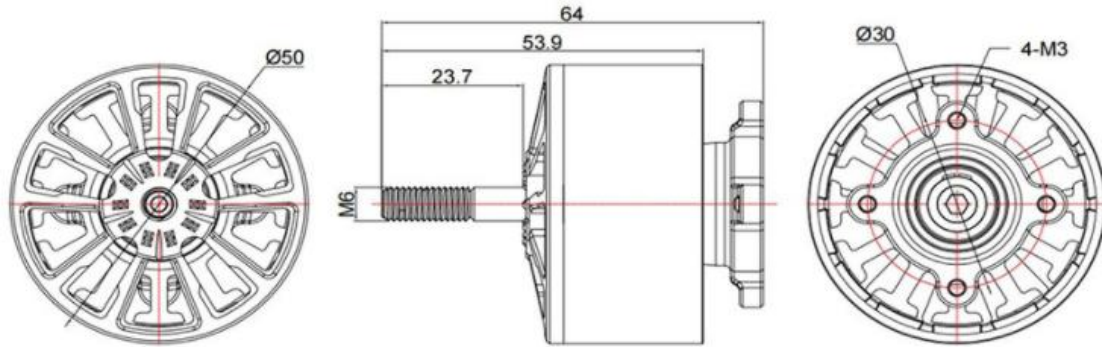


4320-350KV

HIGH-PERFORMANCE BRUSHLESS MOTOR

Application: 15-17Inch FPV Long Range

ENGINEERING DRAWING OVERVIEW



Specification	Value
Stator Diameter	Ø50 mm
Total Height	64 mm
Shaft Thread	M6
Mounting Pattern	30×30 mm (4-M3)

BASIC PARAMETERS

Parameter	Value
KV Value	350
Configuration (Slots/Poles)	12N14P
Shaft Diameter	6 mm
Silicone Wire	16#
Motor Weight (including cable)	248 g
Phase Terminal Resistance (including cable)	43.5 mΩ
Working Voltage	12S (Lipo)

Parameter	Value
No-Load Current (10V)	1.55 A
Maximum Power	3834.6 W
Maximum Current	81.61 A

2

PERFORMANCE TEST DATA (12S VOLTAGE)

Propeller: 15×7.3×3 3-Blade

Throttle (%)	Voltage (V)	Current (A)	Speed (RPM)	Thrust (gf)	Power (W)	Efficiency (gf/W)
10	50.40	0.46	1815.00	135.74	23.40	5.81
20	50.35	1.68	3377.60	603.07	84.50	7.14
30	50.24	3.96	4722.10	1305.68	198.70	6.57
40	50.04	8.58	6137.70	2477.26	429.20	5.77
50	49.74	14.77	8428.90	5037.31	734.60	6.86
60	49.32	23.98	10225.30	7872.64	1182.60	6.66
70	48.95	36.01	10902.80	8963.82	1762.30	5.09
80	48.25	48.95	11408.70	9797.29	2362.00	4.15
90	47.63	64.50	11842.60	9968.42	3072.30	3.24
100	46.99	81.61	12019.40	10111.07	3834.60	2.64

Propeller: 13×7.5×3 3-Blade

Throttle (%)	Voltage (V)	Current (A)	Speed (RPM)	Thrust (gf)	Power (W)	Efficiency (gf/W)
10	50.35	0.43	1848.60	100.01	21.40	4.67
20	50.31	1.32	3466.50	434.94	66.36	6.55

Throttle (%)	Voltage (V)	Current (A)	Speed (RPM)	Thrust (gf)	Power (W)	Efficiency (gf/W)
30	50.24	2.89	4859.80	931.94	145.29	6.41
40	50.08	6.25	6416.60	1765.96	312.85	5.64
50	49.91	10.41	7612.20	2602.67	519.36	5.01
60	49.62	17.21	8967.80	3784.14	853.71	4.43
70	49.24	25.97	10143.30	4958.72	1278.71	3.88
80	48.80	36.09	11205.90	6138.88	1761.24	3.49
90	48.29	48.10	12139.30	7302.24	2322.70	3.14
100	47.74	62.33	12959.00	8309.38	2975.73	2.79

Propeller: HQ 13×8×3 3-Blade

Throttle (%)	Voltage (V)	Current (A)	Speed (RPM)	Thrust (gf)	Power (W)	Efficiency (gf/W)
10	50.33	0.46	1807.10	141.16	23.30	6.06
20	50.27	1.63	3383.90	579.28	81.84	7.08
30	50.17	3.75	4741.20	1222.21	188.19	6.49
40	50.01	7.95	6185.10	2195.89	397.38	5.53
50	49.75	13.46	7351.00	3171.96	669.49	4.74
60	49.38	21.76	8555.20	4354.52	1074.66	4.05
70	48.91	33.22	9568.70	5513.69	1624.94	3.39
80	48.39	45.13	10502.40	6727.21	2183.79	3.08
90	47.79	59.94	11252.20	7814.03	2864.63	2.73
100	47.11	76.70	11840.30	8714.03	3613.15	2.41

Propeller: HQ 13×9×3 3-Blade

Throttle (%)	Voltage (V)	Current (A)	Speed (RPM)	Thrust (gf)	Power (W)	Efficiency (gf/W)
10	50.36	0.49	1808.90	155.48	24.58	6.33
20	50.30	1.72	3367.40	643.69	86.62	7.43
30	50.20	3.96	4718.50	1301.54	198.94	6.54
40	49.94	8.24	6148.20	2260.12	411.78	5.49
50	49.73	14.24	7326.20	3175.30	708.16	4.48
60	49.34	22.97	8510.70	4290.94	1133.49	3.79
70	48.85	34.51	9473.90	5323.49	1685.57	3.16
80	48.30	46.90	10391.80	6455.84	2265.03	2.85
90	47.67	62.15	11113.00	7403.17	2962.50	2.50
100	46.00	76.34	11643.40	8848.64	3511.64	2.52

Propeller: GEMFAN 13×10×3 3-Blade

Throttle (%)	Voltage (V)	Current (A)	Speed (RPM)	Thrust (gf)	Power (W)	Efficiency (gf/W)
10	50.21	0.46	1805.80	139.35	23.30	5.98
20	50.16	1.60	3383.90	575.83	80.16	7.18
30	50.07	3.60	4752.60	1149.80	180.45	6.37
40	49.91	7.63	6219.20	2028.50	380.91	5.33
50	49.69	12.89	7402.30	2913.33	640.31	4.55
60	49.32	20.98	8629.60	4028.90	1034.68	3.89
70	48.87	31.83	9659.70	5065.29	1555.48	3.26
80	48.35	43.65	10612.90	6103.54	2110.48	2.89

Throttle (%)	Voltage (V)	Current (A)	Speed (RPM)	Thrust (gf)	Power (W)	Efficiency (gf/W)
90	47.77	58.15	11396.50	7037.03	2777.92	2.53
100	47.10	74.61	12018.40	7760.39	3514.04	2.21

* Technical specifications are based on manufacturer's lab environment testing. Actual performance may vary.