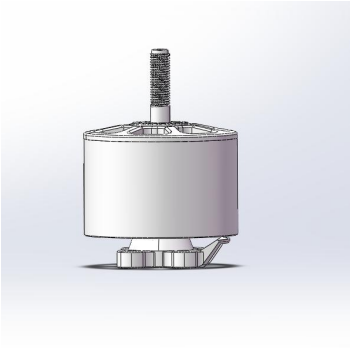
FEATURES

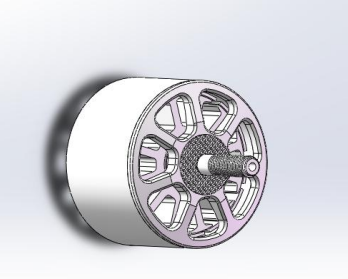
- High-temperature resistant single-strand enameled wire, withstands continuous high current
- Precision dynamic balancing for smooth, vibration-free operation
- NMB or NSK bearings for outstanding reliability and long service life
- Custom KV values available upon customer request

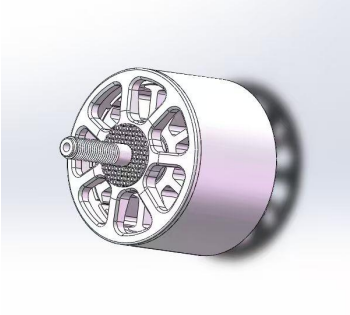
TECHNICAL DATA

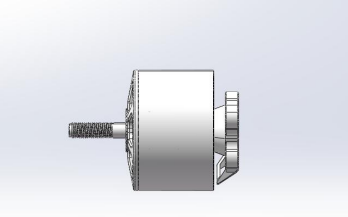
Parameter	Value
KV Value	700
Configuration	12N14P
Stator Diameter	32 mm
Stator Length	20 mm
Shaft Diameter	5 mm (hollow)
Motor Dimension (D × L)	Ø39 × 35.90 mm
Weight (with 3 cm wire)	168 g
Idle Current @ 10 V	1.8 A
LiPo Cells	6–12S
Max. Continuous Power	7031.2 W
Max. Current (15 s)	141.6 A
Internal Resistance	35 m■
Max. Efficiency (5–12 A)	> 87%

PRODUCT VIEWS

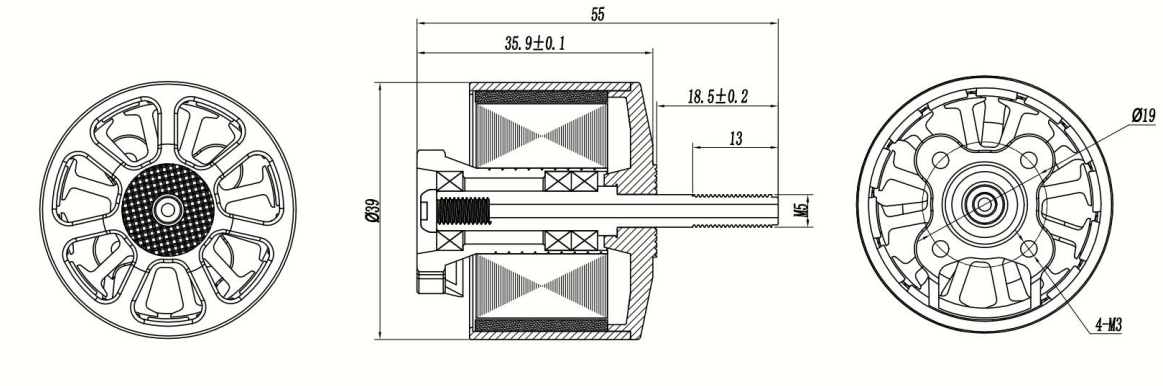








2D ENGINEERING DRAWING



All dimensions in mm · Drawings for reference only

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PROPELLER TEST DATA

Propeller: HQ1050 × 3 · Voltage: 24 V (6S) · Temp: 75°C

Throttle	Current (A)	Thrust (g)	Power (W)	Eff. (g/W)
30	6.1	843	146.3	5.759
40	12.1	1453	292.7	4.958
50	20.7	2096	496.9	4.222
60	30.2	2726	727.3	3.751
70	43.4	3369	1041.7	3.235
80	57.5	3955	1382.5	2.861
90	63.1	4083	1514.5	2.696
100	65.8	4302	1581.7	2.719

Propeller: GF1050 × 3 · Voltage: 24 V (6S) · Temp: 73°C

Throttle	Current (A)	Thrust (g)	Power (W)	Eff. (g/W)
30	5.6	778	134.5	5.781
40	11.6	1425	280.9	5.075
50	18.9	2026	453.7	4.466
60	28.2	2644	676.9	3.905
70	39.3	3268	943.3	3.464
80	53.5	3880	1286.5	3.016
90	58.5	4058	1406.6	2.887
100	62.8	4310	1509.9	2.855

Propeller: GF-1010 × 2 · Voltage: 42 V (10S)

Throttle	Current (A)	Thrust (g)	Power (W)	Eff. (g/W)
10	1.0	145	42.9	3.382
20	3.9	497	163.2	3.044
30	8.7	964	365.6	2.637
40	16.9	1661	708.3	2.345
50	27.6	2336	1155.0	2.023
60	43.9	3244	1828.9	1.774
70	72.6	4200	3010.8	1.395
80	94.5	4686	3920.5	1.195
90	117.4	5083	4858.9	1.046
100	141.6	5221	5842.9	0.894

Propeller: GF-1070 × 2 · Voltage: 42 V (10S)

Throttle	Current (A)	Thrust (g)	Power (W)	Eff. (g/W)
10	0.9	125	36.3	3.439
20	3.2	563	134.0	4.203
30	7.2	1157	303.5	3.812
40	13.3	1830	556.7	3.287
50	21.8	2590	911.6	2.841
60	36.6	3531	1524.8	2.316
70	57.4	4459	2385.9	1.869
80	79.8	5202	3305.7	1.574
90	105.5	5883	4356.4	1.35
100	136.0	6304	5601.0	1.126

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Propeller: GF-8010 × 2 · Voltage: 50 V (12S)

Throttle	Current (A)	Thrust (g)	Power (W)	Eff. (g/W)
10	1.0	122	51.8	2.355
20	3.7	414	188.5	2.196
30	8.5	837	427.5	1.958
40	15.3	1340	768.6	1.743
50	24.0	1848	1207.0	1.531
60	45.7	2695	2289.4	1.177
70	65.0	3280	3248.0	1.01
80	88.8	3860	4435.8	0.87
90	115.0	4336	5728.1	0.757
100	141.5	4548	7031.2	0.647

Propeller: GF-8060 × 2 · Voltage: 42 V (10S)

Throttle	Current (A)	Thrust (g)	Power (W)	Eff. (g/W)
10	0.7	75	31.2	2.403
20	2.1	283	88.3	3.204
30	4.5	658	188.9	3.483
40	8.1	1127	338.9	3.326
50	13.0	1628	546.1	2.981
60	20.4	2319	854.7	2.713
70	29.0	2986	1213.4	2.461
80	43.7	3596	1822.7	1.973
90	62.7	4319	2612.2	1.653
100	90.0	5052	3726.7	1.356

Propeller: GF-9060 × 2 · Voltage: 42 V (10S)

Throttle	Current (A)	Thrust (g)	Power (W)	Eff. (g/W)
10	0.8	89	33.8	2.629
20	2.5	353	104.2	3.388
30	5.3	808	223.7	3.612
40	10.1	1404	424.2	3.31
50	15.1	1906	631.2	3.02
60	25.7	2906	1074.6	2.704
70	39.1	3758	1630.1	2.305
80	56.6	4454	2352.0	1.894
90	79.8	5187	3305.7	1.569
100	108.7	5956	4478.7	1.33

Propeller: GF-9090 × 2 · Voltage: 42 V (10S)

Throttle	Current (A)	Thrust (g)	Power (W)	Eff. (g/W)
10	0.9	116	36.1	3.215
20	3.2	419	136.3	3.075
30	7.1	927	298.6	3.104
40	12.5	1557	525.0	2.966
50	20.6	2202	862.4	2.553
60	33.9	3036	1415.1	2.145
70	53.5	3764	2224.6	1.692
80	74.0	4389	3069.4	1.43
90	98.9	4850	4064.3	1.193
100	126.0	5397	5169.6	1.044

Test conditions: steady-state bench test on a LY-30KGF thrust stand; efficiency = thrust ÷ electrical input power. 6S data measured after 5 s at full throttle; 10S/12S data recorded in Auto Mode (0.5 s filter) at ~28°C ambient. Data are typical factory values; actual performance may vary with propeller, battery state and environmental conditions.

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