

DIMENSIONAL DRAWING

All dimensions in millimeters

GENERAL SPECIFICATIONS

MOTOR

Stator Size: 4215
KV Rating: 520 KV
Configuration: 12N14P
Dimensions: 49 × 65 mm
Weight: 175 g
Shaft Diameter: 6 mm
Lead-Wire Length: 750 mm
Wire Gauge: 14 AWG (2.5 mm²)

ELECTRICAL

Test Battery Configuration: 6S LiPo
Maximum Rated Speed: 17,700 RPM
Maximum Tested Speed: 7,286 RPM
Idle Current (20 V): 2.2 A
Peak Current: 82 A
Winding Resistance: 43 mΩ

PROPELLER PERFORMANCE DATA						
PROPELLER: 15 × 7 × 3 BATTERY: 6S LiPo						
Throttle (%)	Voltage (V)	Current (A)	Speed (RPM)	Thrust (g)	Input Power (W)	Efficiency (g/W)
10	25.22	0.28	943	75	7.1	10.62
20	25.17	1.62	2,057	373	40.8	9.15
30	25.04	4.90	2,829	860	122.7	7.01
40	24.87	10.31	3,600	1,370	256.4	5.34
50	24.57	17.84	4,200	1,900	438.3	4.33
60	24.21	26.06	4,800	2,370	630.9	3.76
70	23.75	36.31	5,229	3,063	862.4	3.55
80	23.29	48.73	5,829	3,900	1,134.9	3.44
90	22.73	63.67	6,600	4,902	1,447.2	3.39
100	22.05	81.94	7,286	5,868	1,806.8	3.25



CURVE INTERPRETATION

Curves are normalized representations of measured test data for visual comparison. Refer to the performance table for actual measured values.

ENGINEERING NOTES

Performance data is based on the bench-test conditions.

Actual performance may vary with installation, airflow, battery condition, ESC setup, and propeller variation.

Validate final selections using application-specific testing.

CONTACT

Product and application assistance:

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