

DIMENSIONAL DRAWING

All dimensions in millimeters

GENERAL SPECIFICATIONS

MOTOR

ELECTRICAL

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)

Test Battery Configuration: 6S LiPo

Maximum Rated Speed: 17,700 RPM

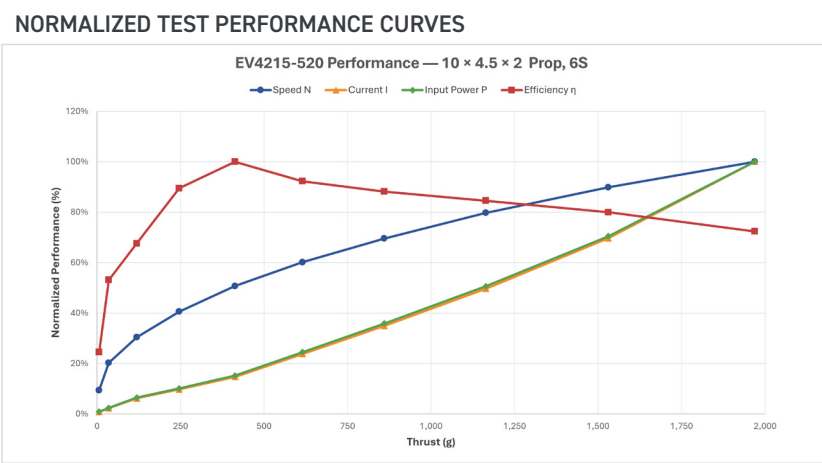
Maximum Tested Speed: 11,829 RPM

Idle Current (20 V): 2.2 A

Peak Current: 82 A

Winding Resistance: 43 mΩ

PROPELLER PERFORMANCE DATA						
PROPELLER: 10 × 4.5 × 2 BATTERY: 6S LiPo						
Throttle (%)	Voltage (V)	Current (A)	Speed (RPM)	Thrust (g)	Input Power (W)	Efficiency (g/W)
10	25.20	0.16	1,114	6	4.0	1.49
20	25.20	0.43	2,400	35	10.8	3.23
30	25.19	1.15	3,600	119	29.0	4.11
40	25.13	1.80	4,800	246	45.2	5.44
50	25.08	2.71	6,000	413	68.0	6.08
60	24.99	4.39	7,114	615	109.7	5.61
70	24.90	6.44	8,229	860	160.4	5.36
80	24.73	9.16	9,429	1,164	226.5	5.14
90	24.53	12.85	10,629	1,531	315.2	4.86
100	24.25	18.44	11,829	1,969	447.2	4.40



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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