

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:

8S LiPo

Maximum Rated Speed:

17,700 RPM

Maximum Tested Speed:

13,714 RPM

Idle Current (20 V):

2.2 A

Peak Current:

82 A

Winding Resistance:

43 mΩ

PROPELLER PERFORMANCE DATA						
PROPELLER: 10 × 5 × 3 BATTERY: 8S LiPo						
Throttle (%)	Voltage (V)	Current (A)	Speed (RPM)	Thrust (g)	Input Power (W)	Efficiency (g/W)
10	32.75	0.18	1,457	25	5.9	4.24
20	32.73	0.79	3,000	151	25.9	5.84
30	32.64	1.85	4,543	363	60.4	6.01
40	32.53	3.49	5,914	637	113.5	5.61
50	32.39	5.77	7,286	988	186.9	5.29
60	32.18	10.19	8,657	1,409	327.9	4.30
70	31.88	15.04	9,943	1,873	479.5	3.91
80	31.51	19.82	11,143	2,437	624.5	3.90
90	30.96	26.94	12,429	3,084	834.1	3.70
100	30.23	36.20	13,714	3,789	1,094.3	3.46



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:

SALES@PELONISTECH.COM

PELONISTECHNOLOGIES.COM