EVERLINE®
UAV PROPULSION MOTORS
EV4200 SERIES

EV4215-520

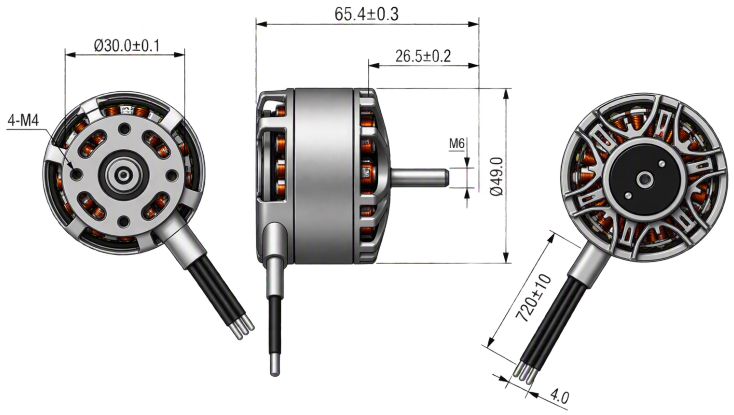
PROPELLER PERFORMANCE TEST

11 × 7.5 × 3 | 6S

PTI PELONIS TECHNOLOGIES

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

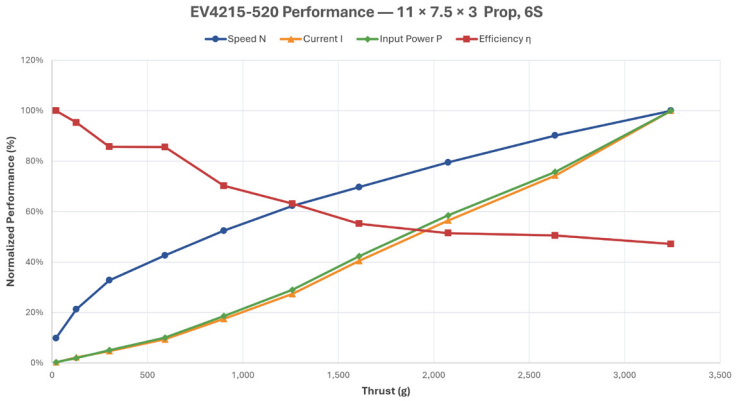
Test Battery Configuration:	6S LiPo
Maximum Rated Speed:	17,700 RPM
Maximum Tested Speed:	10,314 RPM
Idle Current (20 V):	2.2 A
Peak Current:	82 A
Winding Resistance:	43 mΩ

PROPELLER PERFORMANCE DATA

PROPELLER: 11 × 7.5 × 3 | BATTERY: 6S LiPo

Throttle (%)	Voltage (V)	Current (A)	Speed (RPM)	Thrust (g)	Input Power (W)	Efficiency (g/W)
10	25.22	0.10	1,029	21	2.5	8.33
20	25.20	0.80	2,229	127	16.0	7.94
30	25.17	1.67	3,429	300	42.0	7.14
40	25.08	3.31	4,457	592	83.0	7.13
50	24.96	6.16	5,486	900	153.8	5.85
60	24.80	9.66	6,514	1,259	239.6	5.26
70	24.50	14.27	7,286	1,609	349.6	4.60
80	24.27	19.92	8,314	2,075	483.5	4.29
90	23.88	26.19	9,429	2,636	625.4	4.21
100	23.42	35.26	10,457	3,243	825.8	3.93

NORMALIZED TEST PERFORMANCE CURVES



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