EVERLINE®
UAV PROPULSION MOTORS
EV4200 SERIES

EV4215-520

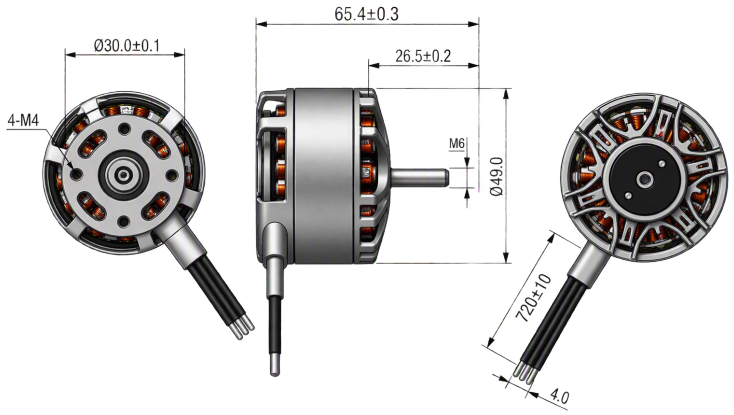
PROPELLER PERFORMANCE TEST

10 × 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

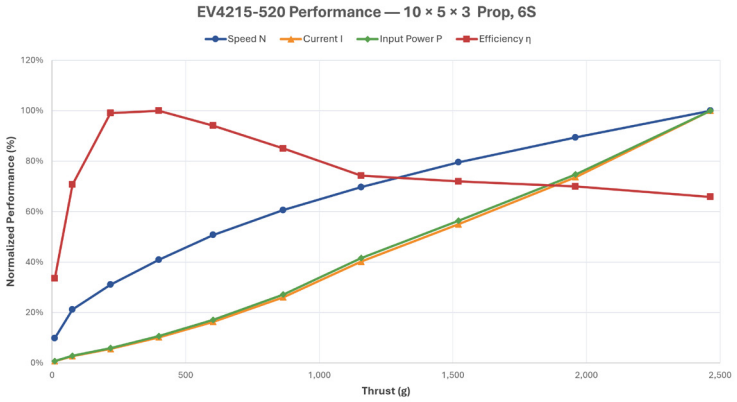
Test Battery Configuration:	6S LiPo
Maximum Rated Speed:	17,700 RPM
Maximum Tested Speed:	11,314 RPM
Idle Current (20 V):	2.2 A
Peak Current:	82 A
Winding Resistance:	43 mΩ

PROPELLER PERFORMANCE DATA

PROPELLER: 10 × 5 × 3 | BATTERY: 6S LiPo

Throttle (%)	Voltage (V)	Current (A)	Speed (RPM)	Thrust (g)	Input Power (W)	Efficiency (g/W)
10	25.22	0.18	1,114	10	4.5	2.20
20	25.19	0.65	2,400	76	16.4	4.64
30	25.15	1.34	3,514	219	33.7	6.50
40	25.10	2.43	4,629	400	61.0	6.56
50	25.01	3.91	5,743	603	97.8	6.17
60	24.90	6.23	6,857	865	155.1	5.58
70	24.73	9.60	7,886	1,157	237.4	4.87
80	24.51	13.14	9,000	1,521	322.1	4.72
90	24.25	17.60	10,114	1,959	426.8	4.59
100	23.89	23.89	11,314	2,464	571.0	4.32

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

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