EVERLINE®
UAV PROPULSION MOTORS
EV4200 SERIES

EV4215-340

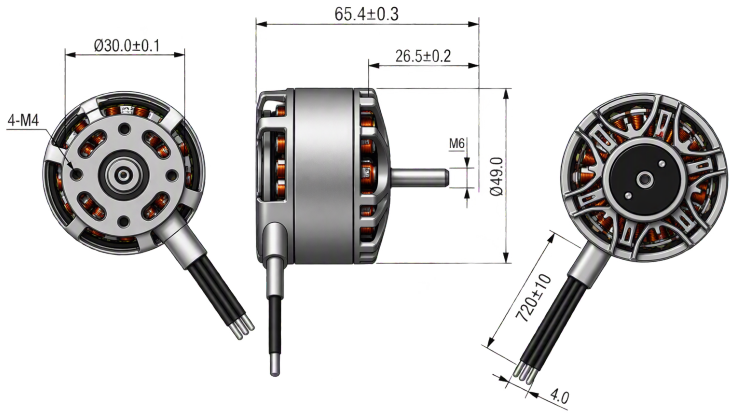
PROPELLER PERFORMANCE TEST

13 × 10 × 3 | 6S

PTI PELONIS TECHNOLOGIES

DIMENSIONAL DRAWING

All dimensions in millimeters



GENERAL SPECIFICATIONS

MOTOR

Stator Size:	4215
KV Rating:	340 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

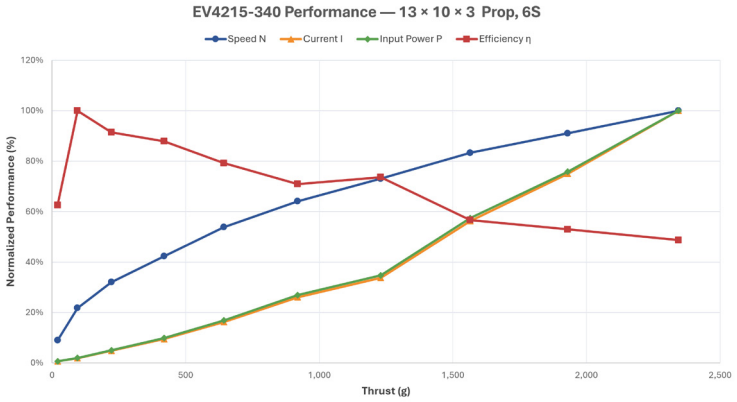
Test Battery Configuration:	6S LiPo
Maximum Rated Speed:	10,900 RPM
Maximum Tested Speed:	6,686 RPM
Idle Current (20 V):	1.1 A
Peak Current:	32 A
Winding Resistance:	79 mΩ

PROPELLER PERFORMANCE DATA

PROPELLER: 13 × 10 × 3 | BATTERY: 6S LiPo

Throttle (%)	Voltage (V)	Current (A)	Speed (RPM)	Thrust (g)	Input Power (W)	Efficiency (g/W)
10	25.22	0.12	600	21	3.0	6.94
20	25.22	0.34	1,457	95	8.6	11.08
30	25.20	0.87	2,143	222	21.9	10.13
40	25.15	1.71	2,829	419	43.0	9.74
50	25.08	2.92	3,600	643	73.2	8.78
60	24.97	4.68	4,286	919	116.9	7.86
70	24.83	6.07	4,886	1,230	150.7	8.16
80	24.62	10.12	5,571	1,565	249.2	6.28
90	24.41	13.48	6,086	1,930	329.0	5.87
100	24.14	17.97	6,686	2,344	433.8	5.40

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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