EVERLINE®
UAV PROPULSION MOTORS
EV4200 SERIES

EV4215-340

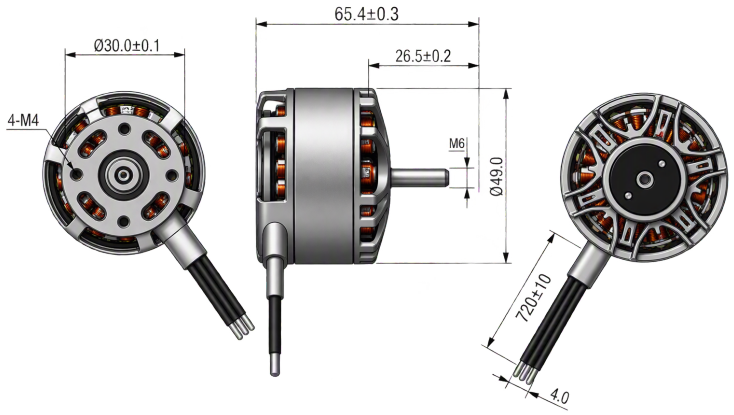
PROPELLER PERFORMANCE TEST

13 × 10 × 3 | 8S

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

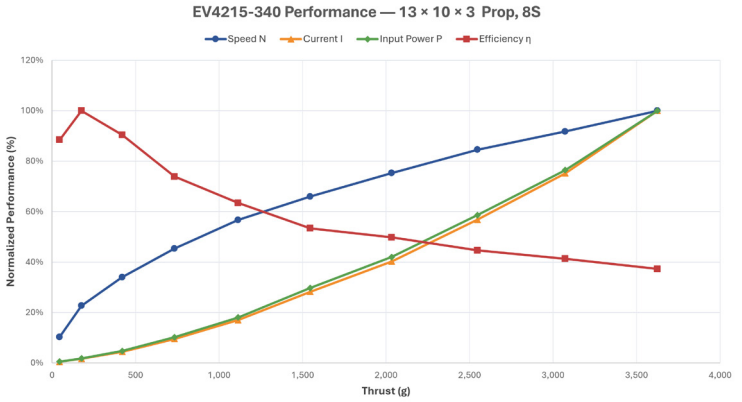
Test Battery Configuration:	8S LiPo
Maximum Rated Speed:	10,900 RPM
Maximum Tested Speed:	8,314 RPM
Idle Current (20 V):	1.1 A
Peak Current:	32 A
Winding Resistance:	79 mΩ

PROPELLER PERFORMANCE DATA

PROPELLER: 13 × 10 × 3 | BATTERY: 8S LiPo

Throttle (%)	Voltage (V)	Current (A)	Speed (RPM)	Thrust (g)	Input Power (W)	Efficiency (g/W)
10	33.54	0.13	857	45	4.4	10.32
20	33.52	0.45	1,886	176	15.1	11.67
30	33.45	1.19	2,829	420	39.8	10.55
40	33.35	2.55	3,771	733	85.0	8.62
50	33.17	4.54	4,714	1,114	150.6	7.40
60	32.90	7.54	5,486	1,546	248.1	6.23
70	32.60	10.74	6,257	2,033	350.1	5.81
80	32.21	15.17	7,029	2,547	488.6	5.21
90	31.74	20.08	7,629	3,073	637.3	4.82
100	31.22	26.70	8,314	3,625	833.6	4.35

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:

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