EVERLINE®
UAV PROPULSION MOTORS
EV4200 SERIES

EV4215-340

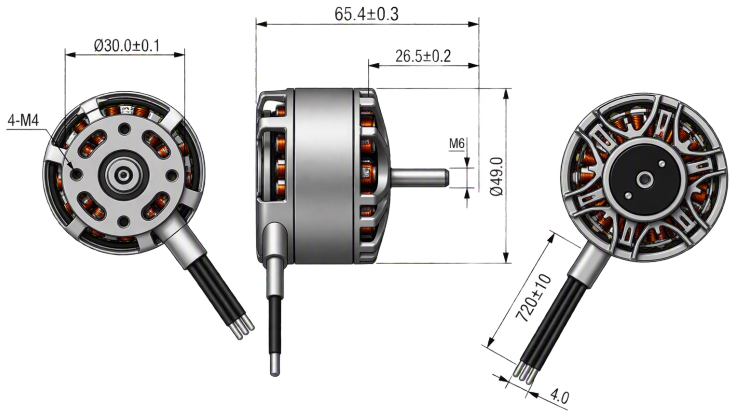
PROPELLER PERFORMANCE TEST

10 × 5 × 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

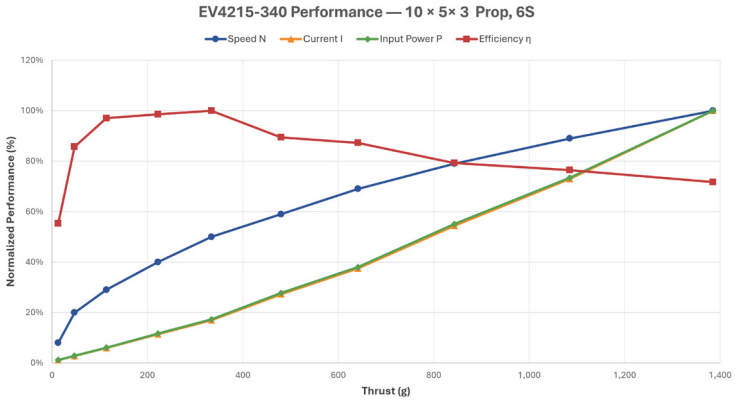
Test Battery Configuration:	6S LiPo
Maximum Rated Speed:	10,900 RPM
Maximum Tested Speed:	8,571 RPM
Idle Current (20 V):	1.1 A
Peak Current:	32 A
Winding Resistance:	79 mΩ

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	0.12	686	13	3.0	4.30
20	25.22	0.28	1,714	47	7.1	6.66
30	25.20	0.60	2,486	114	15.1	7.54
40	25.19	1.15	3,429	222	29.0	7.66
50	25.15	1.71	4,286	334	43.0	7.77
60	25.10	2.75	5,057	480	69.0	6.95
70	25.01	3.78	5,914	641	94.5	6.78
80	24.94	5.49	6,771	843	136.9	6.16
90	24.80	7.36	7,629	1,085	182.5	5.94
100	24.64	10.09	8,571	1,385	248.6	5.57

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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