EVERLINE®
UAV PROPULSION MOTORS
EV4200 SERIES

EV4215-380

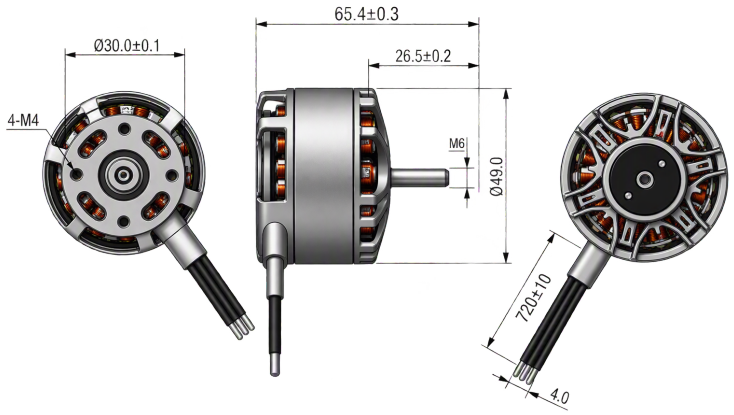
PROPELLER PERFORMANCE TEST

15 × 7 ×3 | 8S

PTI PELONIS TECHNOLOGIES

DIMENSIONAL DRAWING

All dimensions in millimeters



GENERAL SPECIFICATIONS

MOTOR

Stator Size:	4215
KV Rating:	380 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

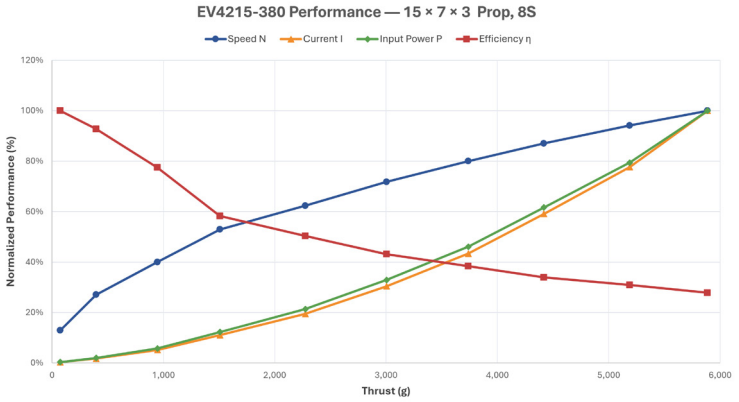
Test Battery Configuration:	8S LiPo
Maximum Rated Speed:	12,340 RPM
Maximum Tested Speed:	7,286 RPM
Idle Current (20 V):	1.4 A
Peak Current:	51 A
Winding Resistance:	66 mΩ

PROPELLER PERFORMANCE DATA

PROPELLER: 15 × 7 × 3 | BATTERY: 8S LiPo

Throttle (%)	Voltage (V)	Current (A)	Speed (RPM)	Thrust (g)	Input Power (W)	Efficiency (g/W)
10	33.35	0.18	943	74	6.0	12.33
20	33.28	1.04	1,971	396	34.6	11.44
30	33.12	2.99	2,914	946	99.0	9.55
40	32.87	6.39	3,857	1,508	210.0	7.18
50	32.50	11.28	4,543	2,275	366.6	6.21
60	32.04	17.63	5,229	3,005	564.9	5.32
70	31.44	25.13	5,829	3,739	790.1	4.73
80	30.85	34.27	6,343	4,418	1,057.2	4.18
90	30.28	44.99	6,857	5,188	1,362.3	3.81
100	29.59	57.96	7,286	5,888	1,715.0	3.43

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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