EVERLINE®
UAV PROPULSION MOTORS
EV4200 SERIES

EV4215-380

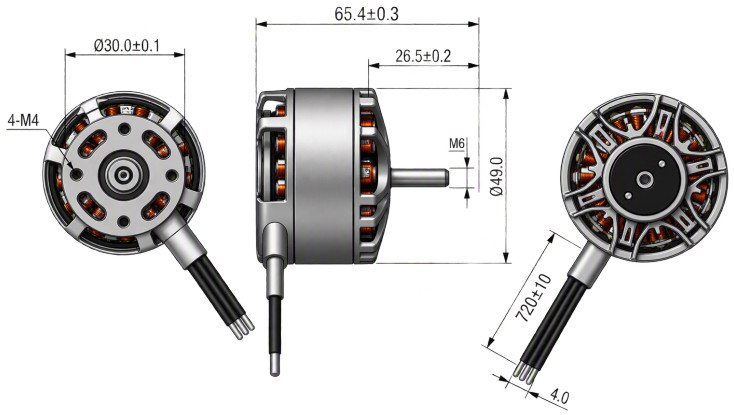
PROPELLER PERFORMANCE TEST

10 × 4.5 × 2 | 6S

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

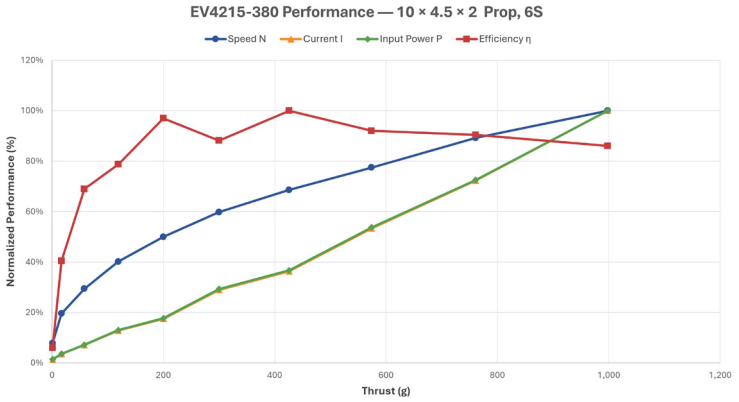
Test Battery Configuration:	6S LiPo
Maximum Rated Speed:	12,340 RPM
Maximum Tested Speed:	8,743 RPM
Idle Current (20 V):	1.4 A
Peak Current:	51 A
Winding Resistance:	66 mΩ

PROPELLER PERFORMANCE DATA

PROPELLER: 10 × 4.5 × 2 | BATTERY: 6S LiPo

Throttle (%)	Voltage (V)	Current (A)	Speed (RPM)	Thrust (g)	Input Power (W)	Efficiency (g/W)
10	25.22	0.10	686	1	2.5	0.40
20	25.22	0.25	1,714	17	6.3	2.70
30	25.20	0.50	2,571	58	12.6	4.60
40	25.19	0.90	3,514	119	22.7	5.25
50	25.15	1.23	4,371	200	30.9	6.47
60	25.12	2.03	5,229	300	51.0	5.88
70	25.06	2.55	6,000	426	63.9	6.67
80	25.01	3.74	6,771	574	93.5	6.14
90	24.90	5.07	7,800	761	126.2	6.03
100	24.81	7.01	8,743	998	173.9	5.74

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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