EVERLINE®
UAV PROPULSION MOTORS
EV4200 SERIES

EV4215-380

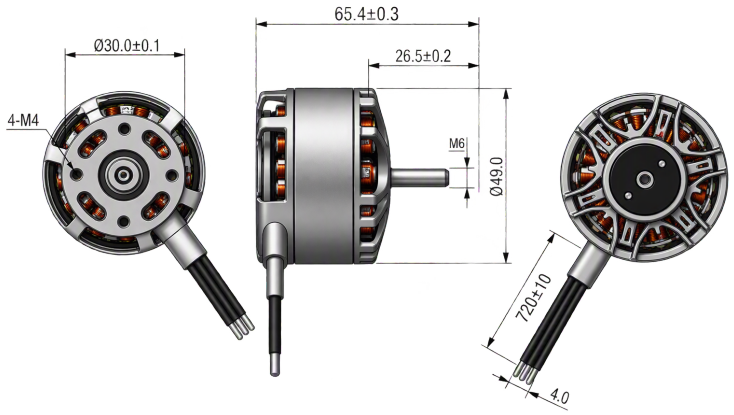
PROPELLER PERFORMANCE TEST

10 × 4.5 × 2 | 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

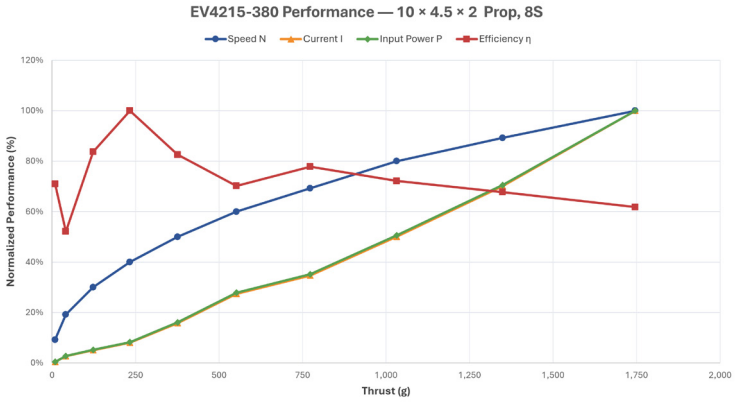
Test Battery Configuration:	8S LiPo
Maximum Rated Speed:	12,340 RPM
Maximum Tested Speed:	11,143 RPM
Idle Current (20 V):	1.4 A
Peak Current:	51 A
Winding Resistance:	66 mΩ

PROPELLER PERFORMANCE DATA

PROPELLER: 10 × 4.5 × 2 | BATTERY: 8S LiPo

Throttle (%)	Voltage (V)	Current (A)	Speed (RPM)	Thrust (g)	Input Power (W)	Efficiency (g/W)
10	32.73	0.05	1,029	9	1.6	5.50
20	32.71	0.31	2,143	41	10.1	4.04
30	32.69	0.58	3,343	123	19.0	6.49
40	32.67	0.92	4,457	233	30.1	7.75
50	32.62	1.80	5,571	376	58.7	6.40
60	32.55	3.12	6,686	552	101.6	5.44
70	32.46	3.95	7,714	773	128.2	6.03
80	32.36	5.70	8,914	1,032	184.5	5.59
90	32.21	7.98	9,943	1,349	257.0	5.25
100	32.02	11.38	11,143	1,746	364.4	4.79

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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