EVERLINE®
UAV PROPULSION MOTORS
EV3100 SERIES

EV3115-700

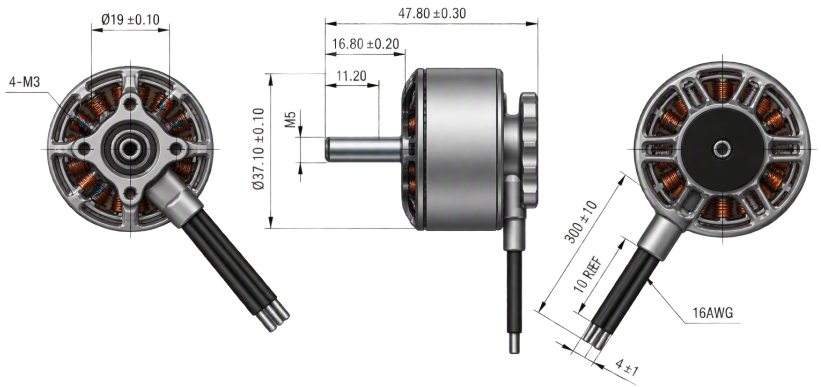
PROPELLER PERFORMANCE TEST

8 × 4 × 3 | 6S

PTI PELONIS TECHNOLOGIES

DIMENSIONAL DRAWING

All dimensions in millimeters



GENERAL SPECIFICATIONS

MOTOR

Stator Size:	3115
KV Rating:	700 KV
Configuration:	12N14P
Dimensions:	37 × 47 mm
Weight:	120 g
Shaft Diameter:	5 mm
Lead-Wire Length:	300 mm
Wire Gauge:	16 AWG (1.5 mm²)

ELECTRICAL

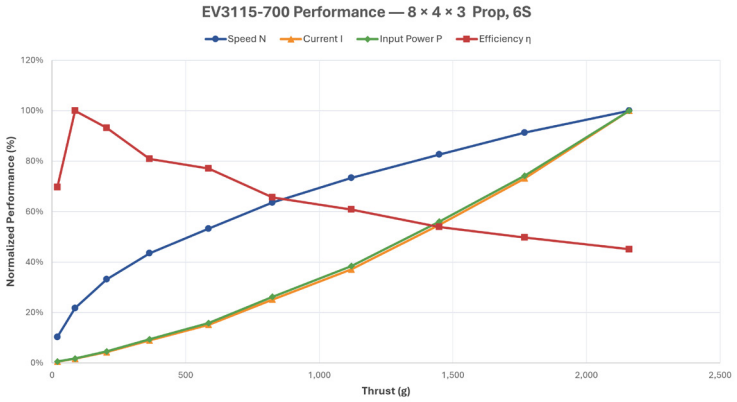
Test Battery Configuration:	6S LiPo
Maximum Rated Speed:	25,700 RPM
Maximum Tested Speed:	15,771 RPM
Idle Current (20 V):	1.1 A
Peak Current:	55 A
Winding Resistance:	56 mΩ

PROPELLER PERFORMANCE DATA

PROPELLER: 8 × 4 × 3 | BATTERY: 6S LiPo

Throttle (%)	Voltage (V)	Current (A)	Speed (RPM)	Thrust (g)	Input Power (W)	Efficiency (g/W)
10	25.24	0.14	1,629	20	3.5	5.66
20	25.22	0.42	3,429	86	10.6	8.12
30	25.20	1.07	5,229	204	27.0	7.57
40	25.13	2.21	6,857	365	55.5	6.57
50	25.04	3.74	8,400	586	93.6	6.26
60	24.94	6.21	10,029	825	154.9	5.33
70	24.76	9.16	11,571	1,120	226.8	4.94
80	24.51	13.50	13,029	1,449	330.9	4.38
90	24.27	18.06	14,400	1,769	438.3	4.04
100	23.93	24.68	15,771	2,160	590.6	3.66

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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