EVERLINE®
UAV PROPULSION MOTORS
EV3100 SERIES

EV3115-900

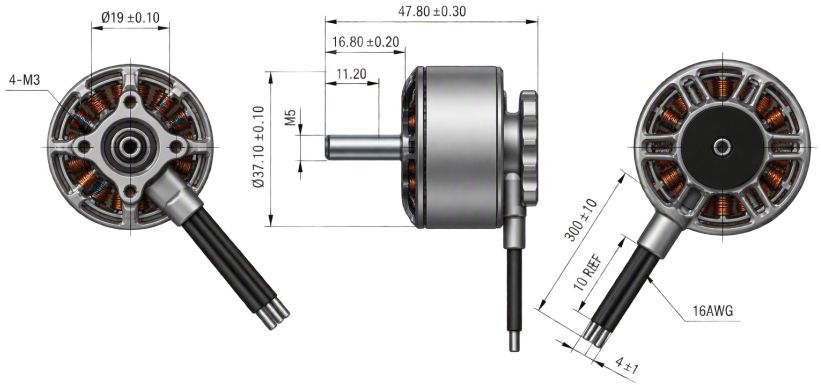
PROPELLER PERFORMANCE TEST

8 × 4 × 3 | 4S

PTI PELONIS TECHNOLOGIES

DIMENSIONAL DRAWING

All dimensions in millimeters



GENERAL SPECIFICATIONS

MOTOR

Stator Size:	3115
KV Rating:	900 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

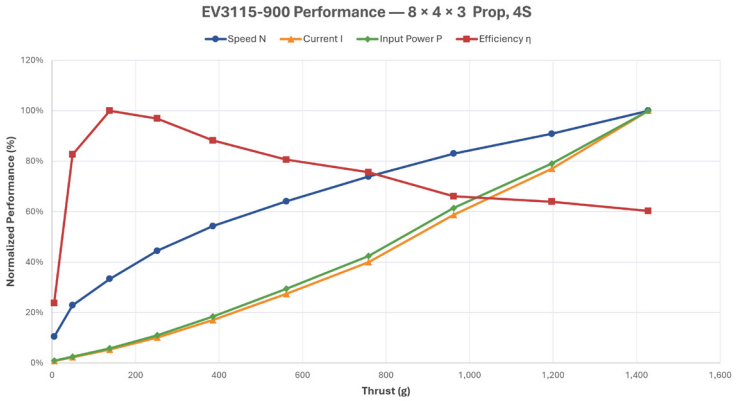
Test Battery Configuration:	4S LiPo
Maximum Rated Speed:	24,500 RPM
Maximum Tested Speed:	13,114 RPM
Idle Current (20 V):	2 A
Peak Current:	45 A
Winding Resistance:	38 mΩ

PROPELLER PERFORMANCE DATA

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

Throttle (%)	Voltage (V)	Current (A)	Speed (RPM)	Thrust (g)	Input Power (W)	Efficiency (g/W)
10	16.78	0.17	2,143	5	2.9	1.75
20	16.76	0.48	4,543	49	8.0	6.09
30	16.72	1.12	6,600	138	18.7	7.37
40	16.65	2.12	8,743	252	35.3	7.14
50	16.55	3.58	10,714	385	59.2	6.50
60	16.41	5.76	12,514	561	94.5	5.94
70	16.19	8.41	14,229	758	136.2	5.57
80	15.98	12.35	15,686	962	197.4	4.87
90	15.68	16.20	17,314	1,197	254.0	4.71
100	15.27	21.04	18,600	1,428	321.3	4.44

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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