EVERLINE®
UAV PROPULSION MOTORS
EV3100 SERIES

EV3115-900

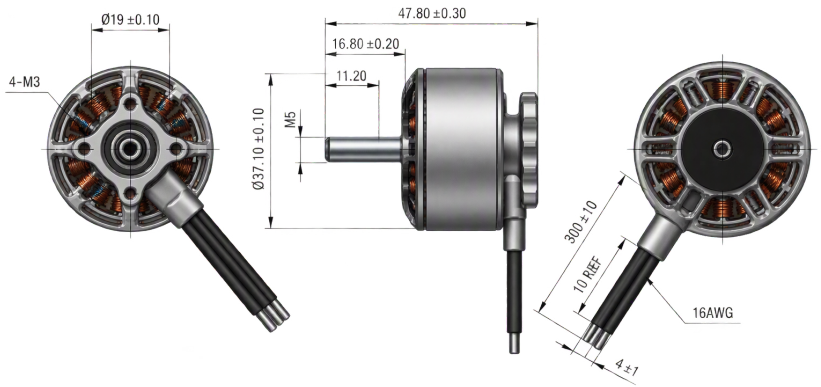
PROPELLER PERFORMANCE TEST

10.5 × 5 × 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

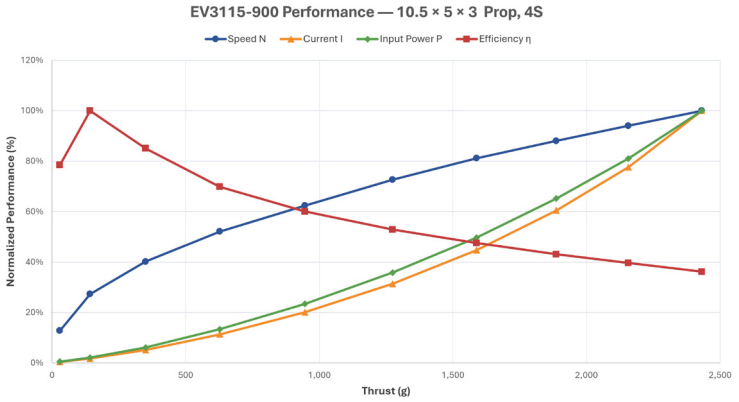
Test Battery Configuration:	4S LiPo
Maximum Rated Speed:	21,000 RPM
Maximum Tested Speed:	10,029 RPM
Idle Current (20 V):	2 A
Peak Current:	45 A
Winding Resistance:	38 mΩ

PROPELLER PERFORMANCE DATA

PROPELLER: 10.5 × 5 × 3 | BATTERY: 4S LiPo

Throttle (%)	Voltage (V)	Current (A)	Speed (RPM)	Thrust (g)	Input Power (W)	Efficiency (g/W)
10	16.80	0.20	1,286	29	3.4	8.63
20	16.76	0.77	2,743	142	12.9	11.00
30	16.69	2.24	4,029	350	37.4	9.36
40	16.53	4.95	5,229	628	81.8	7.68
50	16.30	8.78	6,257	946	143.1	6.61
60	15.98	13.70	7,286	1,274	218.9	5.82
70	15.56	19.52	8,143	1,589	303.7	5.23
80	15.10	26.39	8,829	1,887	398.5	4.74
90	14.62	33.87	9,429	2,157	495.2	4.36
100	14.00	43.65	10,029	2,432	611.1	3.98

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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