EVERLINE®
UAV PROPULSION MOTORS
EV3100 SERIES

EV3115-900

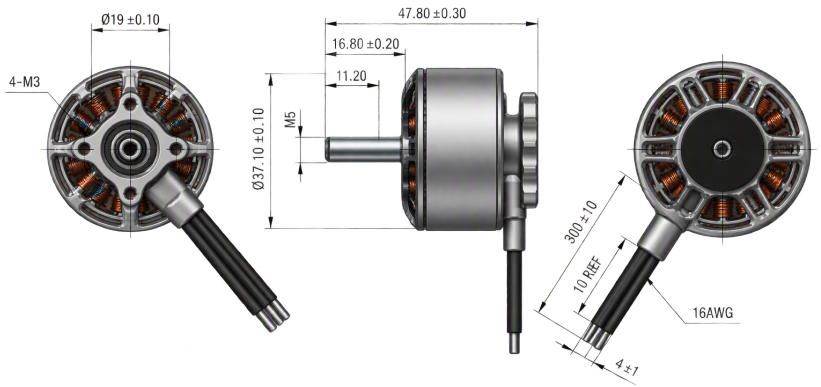
PROPELLER PERFORMANCE TEST

10.5 × 5 × 3 | 6S

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

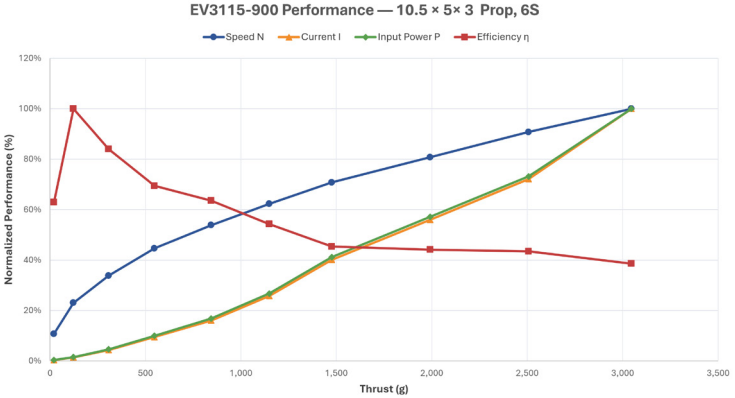
Test Battery Configuration:	6S LiPo
Maximum Rated Speed:	24,500 RPM
Maximum Tested Speed:	11,143 RPM
Idle Current (20 V):	2 A
Peak Current:	45 A
Winding Resistance:	38 mΩ

PROPELLER PERFORMANCE DATA

PROPELLER: 10.5 × 5 × 3 | BATTERY: 6S LiPo

Throttle (%)	Voltage (V)	Current (A)	Speed (RPM)	Thrust (g)	Input Power (W)	Efficiency (g/W)
10	25.10	0.13	1,200	20	3.3	6.13
20	25.06	0.50	2,571	122	12.5	9.74
30	25.01	1.50	3,771	307	37.5	8.18
40	24.90	3.25	4,971	547	80.9	6.76
50	24.71	5.52	6,000	844	136.4	6.19
60	24.50	8.85	6,943	1,148	216.8	5.29
70	24.23	13.77	7,886	1,476	333.6	4.42
80	24.10	19.22	9,000	1,992	463.2	4.30
90	23.95	24.75	10,114	2,507	592.8	4.23
100	23.61	34.32	11,143	3,046	810.3	3.76

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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