EVERLINE®
UAV PROPULSION MOTORS
EV5300 SERIES

EV5315-300

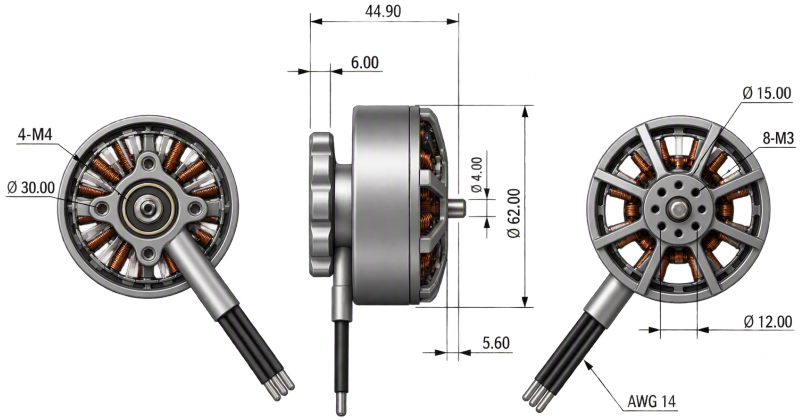
PROPELLER PERFORMANCE TEST

13 × 10 × 3 | 8S

PTI PELONIS TECHNOLOGIES

DIMENSIONAL DRAWING

All dimensions in millimeters



GENERAL SPECIFICATIONS

MOTOR

Stator Size:	5315
KV Rating:	300 KV
Configuration:	12N14P
Dimensions:	62 × 44.7 mm
Weight:	362 g
Shaft Diameter:	6 mm / Bolt mounted
Lead-Wire Length:	600 mm
Wire Gauge:	14 AWG (2.5 mm²)

ELECTRICAL

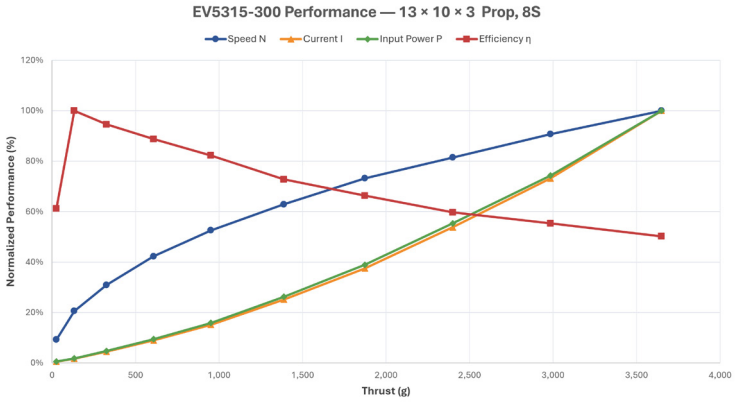
Test Battery Configuration:	8S LiPo
Maximum Rated Speed:	13,320 RPM
Maximum Tested Speed:	8,314 RPM
Idle Current (20 V):	2.2 A
Peak Current:	52 A
Winding Resistance:	42 mΩ

PROPELLER PERFORMANCE DATA

PROPELLER: 13 × 10 × 3 | BATTERY: 8S LiPo

Throttle (%)	Voltage (V)	Current (A)	Speed (RPM)	Thrust (g)	Input Power (W)	Efficiency (g/W)
10	32.78	0.15	771	26	4.9	5.29
20	32.76	0.47	1,714	133	15.4	8.64
30	32.71	1.22	2,571	326	39.9	8.17
40	32.64	2.43	3,514	608	79.3	7.67
50	32.46	4.12	4,371	951	133.7	7.11
60	32.29	6.83	5,229	1,388	220.5	6.29
70	32.09	10.19	6,086	1,873	327.0	5.73
80	31.82	14.61	6,771	2,399	464.9	5.16
90	31.42	19.87	7,543	2,984	624.3	4.78
100	30.94	27.16	8,314	3,650	840.3	4.34

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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