

DIMENSIONAL DRAWING

All dimensions in millimeters

GENERAL SPECIFICATIONS

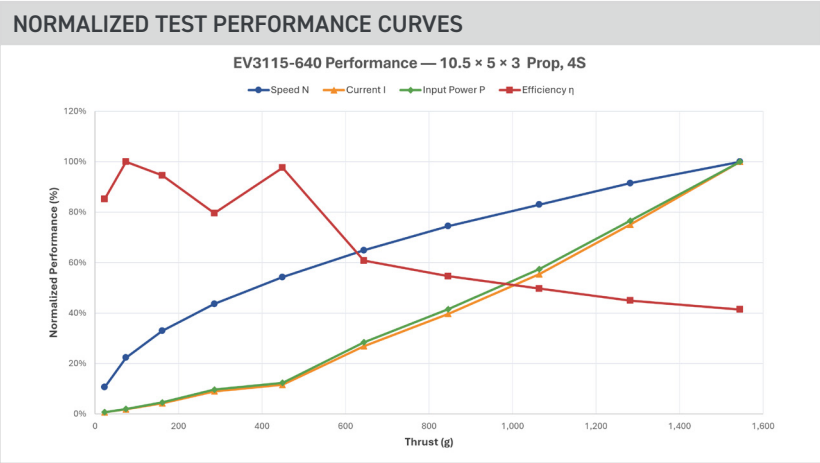
MOTOR

Stator Size: 3115
KV Rating: 640 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: 20,700 RPM
Maximum Tested Speed: 8,057 RPM
Idle Current (20 V): 1 A
Peak Current: 40 A
Winding Resistance: 72 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	16.76	0.12	857	23	2.0	11.44
20	16.71	0.33	1,800	74	5.5	13.42
30	16.69	0.76	2,657	161	12.7	12.69
40	16.64	1.61	3,514	286	26.8	10.68
50	16.56	2.07	4,371	449	34.3	13.10
60	16.44	4.80	5,229	644	78.9	8.16
70	16.28	7.09	6,000	846	115.4	7.33
80	16.09	9.91	6,686	1,064	159.5	6.67
90	15.86	13.41	7,371	1,282	212.7	6.03
100	15.54	17.87	8,057	1,545	277.7	5.56



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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