

DIMENSIONAL DRAWING

All dimensions in millimeters

GENERAL SPECIFICATIONS

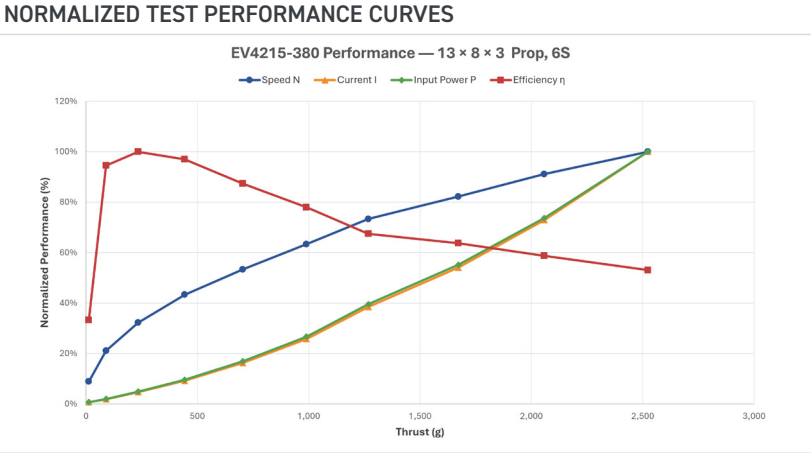
MOTOR

Stator Size: 4215
KV Rating: 380 KV
Configuration: 12N14P
Dimensions: 49 × 65 mm
Weight: 175 g
Shaft Diameter: 6 mm
Lead-Wire Length: 750 mm
Wire Gauge: 14 AWG (2.5 mm²)

ELECTRICAL

Test Battery Configuration: 6S LiPo
Maximum Rated Speed: 12,340 RPM
Maximum Tested Speed: 7,714 RPM
Idle Current (20 V): 1.4 A
Peak Current: 51 A
Winding Resistance: 66 mΩ

PROPELLER PERFORMANCE DATA						
PROPELLER: 13 × 8 × 3 BATTERY: 6S LiPo						
Throttle (%)	Voltage (V)	Current (A)	Speed (RPM)	Thrust (g)	Input Power (W)	Efficiency (g/W)
10	25.24	0.14	686	12	3.5	3.40
20	25.20	0.37	1,629	90	9.3	9.65
30	25.19	0.91	2,486	234	22.9	10.21
40	25.13	1.78	3,343	443	44.7	9.90
50	25.06	3.15	4,114	704	78.9	8.92
60	24.96	4.98	4,886	990	124.3	7.96
70	24.80	7.42	5,657	1,268	184.0	6.89
80	24.60	10.44	6,343	1,672	256.8	6.51
90	24.37	14.07	7,029	2,058	342.9	6.00
100	24.11	19.30	7,714	2,523	465.3	5.42



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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