

DIMENSIONAL DRAWING

All dimensions in millimeters

GENERAL SPECIFICATIONS

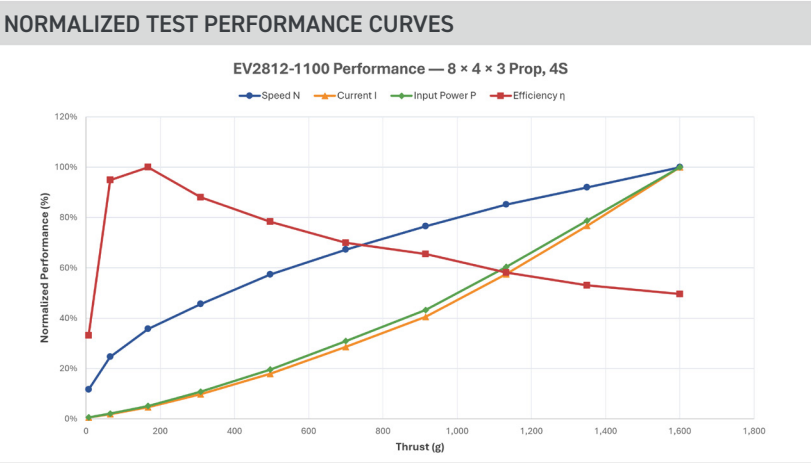
MOTOR

Stator Size: 2812
KV Rating: 1100 KV
Configuration: 12N14P
Dimensions: 33.4 × 40 mm
Weight: 78.9 g
Shaft Diameter: 5 mm
Lead-Wire Length: 250 mm
Wire Gauge: 18 AWG (1 mm²)

ELECTRICAL

Test Battery Configuration: 4S LiPo
Maximum Rated Speed: 29,100 RPM
Maximum Tested Speed: 13,886 RPM
Idle Current (20 V): 1.4 A
Peak Current: 55 A
Winding Resistance: 53.4 mΩ

PROPELLER PERFORMANCE DATA						
PROPELLER: 8 × 4 × 3 BATTERY: 4S LiPo						
Throttle (%)	Voltage (V)	Current (A)	Speed (RPM)	Thrust (g)	Input Power (W)	Efficiency (g/W)
10	16.78	0.16	1,629	7	2.7	2.61
20	16.76	0.52	3,429	65	8.7	7.46
30	16.72	1.27	4,971	167	21.2	7.86
40	16.65	2.68	6,343	309	44.6	6.92
50	16.53	4.87	7,971	496	80.5	6.16
60	16.35	7.78	9,343	700	127.2	5.50
70	16.12	11.02	10,629	915	177.6	5.15
80	15.86	15.63	11,829	1,132	247.9	4.57
90	15.51	20.85	12,771	1,350	323.4	4.17
100	15.11	27.17	13,886	1,600	410.5	3.90



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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