

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:

17,400 RPM

Idle Current (20 V):

1.4 A

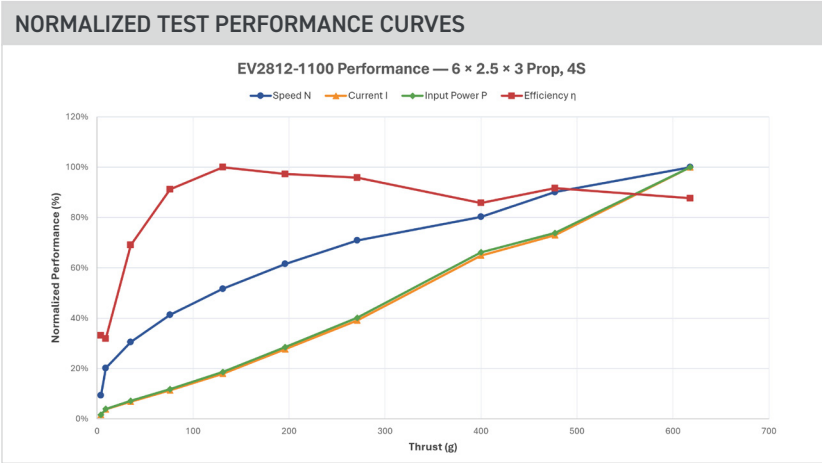
Peak Current:

55 A

Winding Resistance:

53.4 mΩ

PROPELLER PERFORMANCE DATA						
PROPELLER: 6 × 2.5 × 3 BATTERY: 4S LiPo						
Throttle (%)	Voltage (V)	Current (A)	Speed (RPM)	Thrust (g)	Input Power (W)	Efficiency (g/W)
10	16.80	0.15	1,629	4	2.5	1.59
20	16.78	0.35	3,514	9	5.9	1.53
30	16.76	0.63	5,314	35	10.6	3.31
40	16.72	1.04	7,200	76	17.4	4.37
50	16.69	1.64	9,000	131	27.4	4.79
60	16.62	2.53	10,714	196	42.0	4.66
70	16.55	3.57	12,343	271	59.1	4.59
80	16.44	5.92	13,971	400	97.3	4.11
90	16.30	6.66	15,686	477	108.6	4.39
100	16.12	9.12	17,400	618	147.0	4.20



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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