

DIMENSIONAL DRAWING

All dimensions in millimeters

GENERAL SPECIFICATIONS

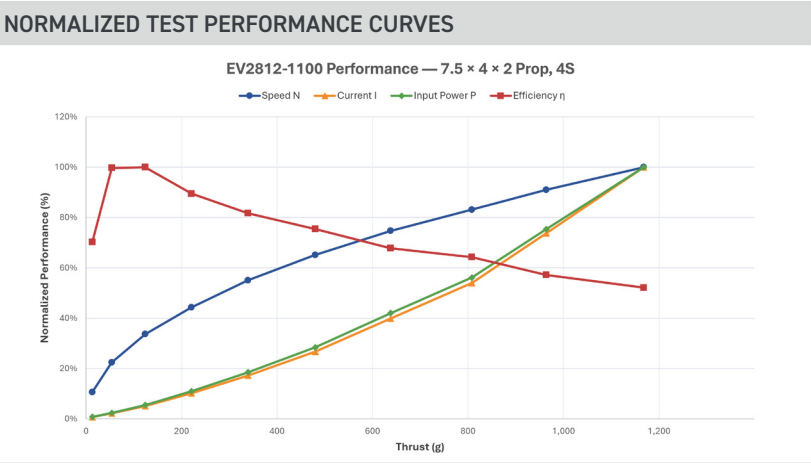
MOTOR

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: 15,257 RPM
Idle Current (20 V): 1.4 A
Peak Current: 55 A
Winding Resistance: 53.4 mΩ

PROPELLER PERFORMANCE DATA						
PROPELLER: 7.5 × 4 × 2 BATTERY: 4S LiPo						
Throttle (%)	Voltage (V)	Current (A)	Speed (RPM)	Thrust (g)	Input Power (W)	Efficiency (g/W)
10	16.78	0.15	1,629	13	2.5	5.16
20	16.76	0.44	3,429	54	7.4	7.32
30	16.72	1.01	5,143	124	16.9	7.34
40	16.65	2.02	6,771	221	33.6	6.57
50	16.56	3.41	8,400	339	56.5	6.00
60	16.42	5.28	9,943	480	86.7	5.54
70	16.25	7.88	11,400	638	128.1	4.98
80	16.05	10.66	12,686	808	171.1	4.72
90	15.77	14.57	13,886	964	229.8	4.20
100	15.43	19.75	15,257	1,168	314.7	3.83



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:

SALES@PELONISTECH.COM

PELONISTECHNOLOGIES.COM