EVERLINE®
UAV PROPULSION MOTORS
EV2800 SERIES

EV2812-1100

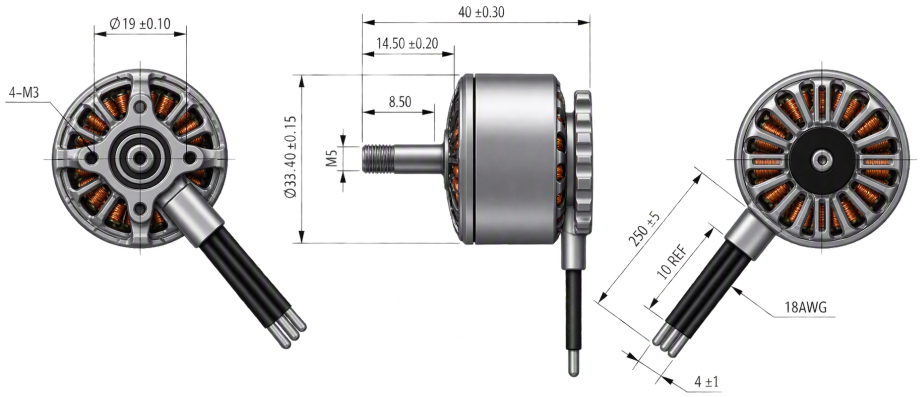
PROPELLER PERFORMANCE TEST

7 × 4 × 3 | 6S

PTI PELONIS TECHNOLOGIES

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

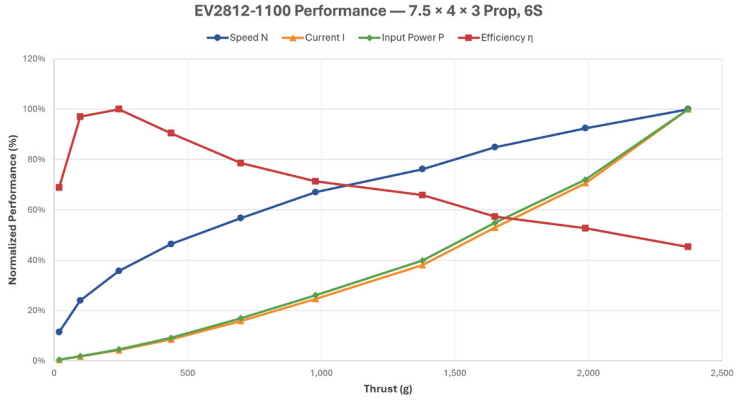
Test Battery Configuration:	6S LiPo
Maximum Rated Speed:	29,100 RPM
Maximum Tested Speed:	21,600 RPM
Idle Current (20 V):	1.4 A
Peak Current:	55 A
Winding Resistance:	53.4 mΩ

PROPELLER PERFORMANCE DATA

PROPELLER: 7 × 4 × 3 | BATTERY: 6S LiPo

Throttle (%)	Voltage (V)	Current (A)	Speed (RPM)	Thrust (g)	Input Power (W)	Efficiency (g/W)
10	25.24	0.18	2,486	19	4.5	4.18
20	25.22	0.66	5,143	98	16.6	5.89
30	25.17	1.59	7,714	243	40.0	6.07
40	24.08	3.18	10,029	438	79.8	5.49
50	24.94	5.88	12,257	699	146.6	4.77
60	24.74	9.13	14,486	979	225.9	4.33
70	24.44	14.11	16,457	1,379	344.8	4.00
80	24.14	19.63	18,343	1,650	473.9	3.48
90	23.77	26.17	19,971	1,989	622.1	3.20
100	23.31	37.04	21,600	2,373	863.4	2.75

NORMALIZED TEST PERFORMANCE CURVES



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

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