EVERLINE®
UAV PROPULSION MOTORS
EV2800 SERIES

EV2812-1100

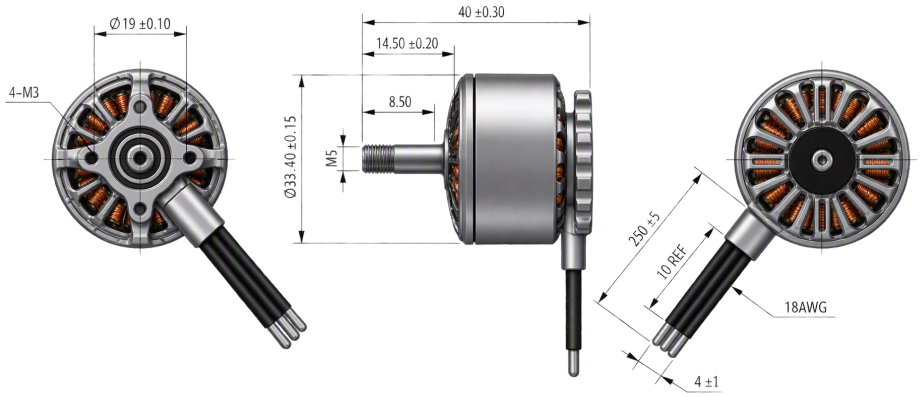
PROPELLER PERFORMANCE TEST

10 × 4.5 × 2 | 4S

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

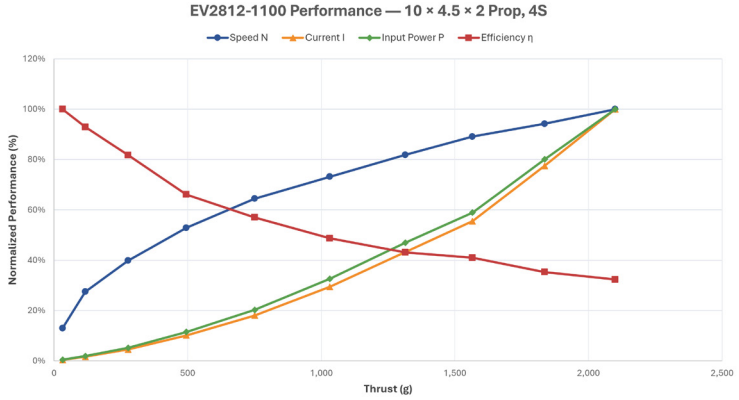
Test Battery Configuration:	4S LiPo
Maximum Rated Speed:	29,100 RPM
Maximum Tested Speed:	11,829 RPM
Idle Current (20 V):	1.4 A
Peak Current:	55 A
Winding Resistance:	53.4 mΩ

PROPELLER PERFORMANCE DATA

PROPELLER: 10 × 4.5 × 2 | BATTERY: 4S LiPo

Throttle (%)	Voltage (V)	Current (A)	Speed (RPM)	Thrust (g)	Input Power (W)	Efficiency (g/W)
10	16.78	0.16	1,543	32	2.7	11.92
20	16.76	0.63	3,257	117	10.6	11.08
30	16.71	1.70	4,714	277	28.4	9.75
40	16.62	3.78	6,257	495	62.8	7.88
50	16.44	6.72	7,629	751	110.5	6.80
60	16.18	10.97	8,657	1,032	177.5	5.81
70	15.89	16.09	9,686	1,315	255.7	5.14
80	15.52	20.65	10,543	1,566	320.5	4.89
90	15.11	28.83	11,143	1,836	435.6	4.21
100	14.62	37.20	11,829	2,100	543.9	3.86

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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