EVERLINE®
UAV PROPULSION MOTORS
EV2800 SERIES

EV2810-1100

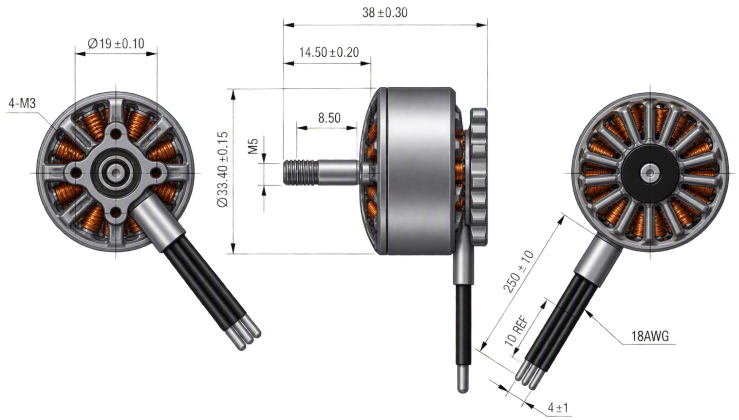
PROPELLER PERFORMANCE TEST

7.5 × 4 × 2 | 4S

PTI PELONIS TECHNOLOGIES

DIMENSIONAL DRAWING

All dimensions in millimeters



GENERAL SPECIFICATIONS

MOTOR

Stator Size:	2810
KV Rating:	1100 KV
Configuration:	12N14P
Dimensions:	33.4 × 38 mm
Weight:	70 g
Shaft Diameter:	5 mm
Lead-Wire Length:	250 mm
Wire Gauge:	18 AWG (1 mm²)

ELECTRICAL

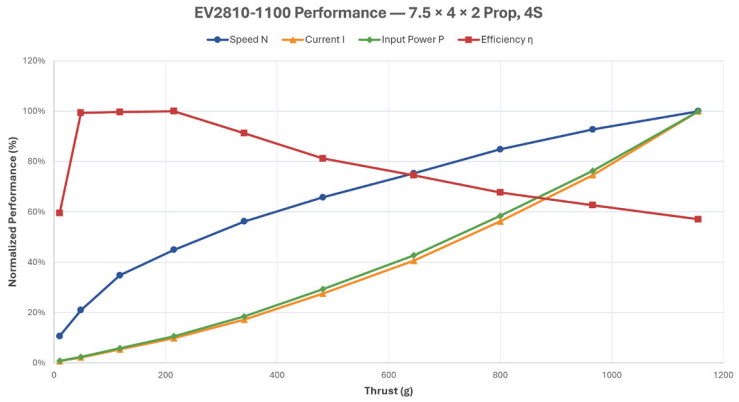
Test Battery Configuration:	4S LiPo
Maximum Rated Speed:	30,100 RPM
Maximum Tested Speed:	15,249 RPM
Idle Current (20 V):	1.8 A
Peak Current:	50 A
Winding Resistance:	52 mΩ

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	16.71	0.16	1,629	10	2.7	3.74
20	16.69	0.46	3,200	48	7.7	6.25
30	16.65	1.13	5,314	118	18.8	6.27
40	16.60	2.06	6,857	215	34.2	6.29
50	16.51	3.60	8,571	341	59.4	5.74
60	16.37	5.76	10,029	482	94.3	5.11
70	16.18	8.50	11,486	645	137.5	4.69
80	15.98	11.76	12,943	800	187.9	4.26
90	15.72	15.61	14,143	966	245.4	3.94
100	15.38	20.91	15,249	1,155	321.6	3.59

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

Product and application assistance:

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