

System Specifications



7,97 Kg

Maximal Thrust



28"

Propeller
Diameter



48 V

Voltage



490 g

Mass

Motor

Name:	ASTM020 KV100
Part number:	
Manufacturer:	Aster
KV [RPM/V]:	100
Max voltage [V]	48
Mass (incl. cables)[g]:	340
Max continuous Current [A]:	129
Contact:	Aster Co., Ltd.

ESC

Name:	Alpha 60A HV12S
Part number:	
Manufacturer:	T-Motor
Mass (incl. cables) [g]:	73
Max continuous Current [A]:	60
Max peak Current [A]:	80
Voltage [V]:	18 – 50.4
Contact:	onlinesales@tmotor.com

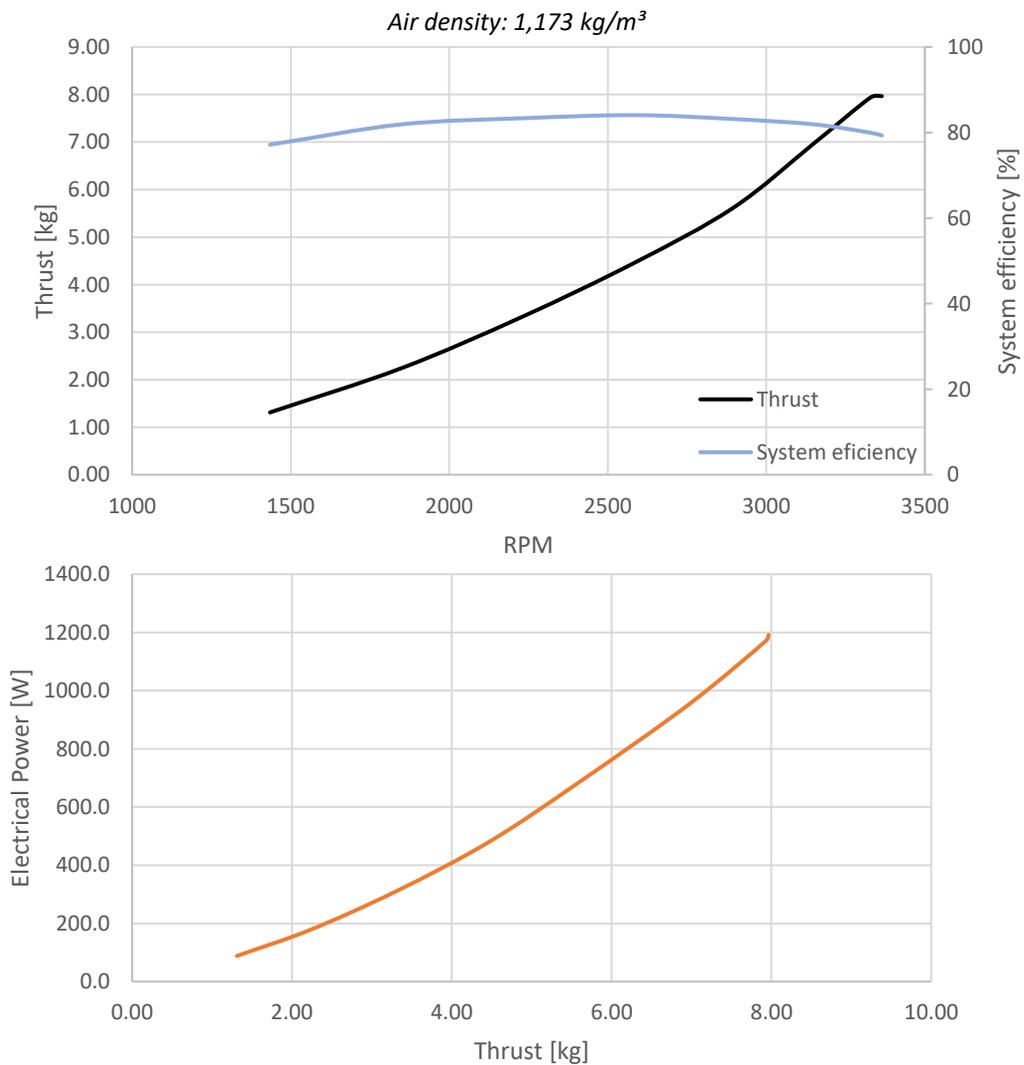
Propeller

Name:	28x9.4 2B MC
Manufacturer:	Mejzlik
Diameter ["]:	28
Pitch ["]:	9.4
Mass [g]:	77
Contact:	info@mejzlik.eu

Measurements

ID 0088

PWM [μ s]	Rotational Speed [RPM]	Thrust [kg]	Torque [Nm]	Voltage [V]	Current [A]	Mechanical Power [W]	Electrical Power [W]	System Efficiency [%] ^[1]
1370	1435	1.31	0.46	47.8	1.9	68.5	88.9	77.1
1460	1849	2.24	0.76	47.8	3.8	147.0	179.6	81.9
1550	2228	3.32	1.12	47.8	6.5	260.6	312.6	83.3
1640	2587	4.47	1.49	47.7	10.1	404.0	480.4	84.1
1730	2897	5.62	1.89	47.7	14.5	574.1	690.4	83.2
1820	3150	6.97	2.37	47.7	20.0	780.9	953.3	81.9
1910	3328	7.94	2.69	47.7	24.6	936.7	1171.6	79.9
2000	3364	7.97	2.68	47.7	25.0	944.5	1191.1	79.3



^[1] Includes motor efficiency, controller efficiency, wire and connectors losses.