

System Specifications



20,9 Kg

Maximal Thrust



30"

Propeller
Diameter



48 V

Voltage



1581 g

Mass

Motor

Name:	ASTM005 KV100
Part number:	
Manufacturer:	Aster
KV [RPM/V]:	125
Max voltage [V]	48
Mass (incl. cables)[g]:	1150
Max continuous Current [A]:	129
Contact:	Aster Co., Ltd.

ESC

Name:	Alpha 120A HV12S
Part number:	
Manufacturer:	T-Motor
Mass (incl. cables) [g]:	360
Max continuous Current [A]:	100
Max peak Current [A]:	120
Voltage [V]:	18 – 50.4
Contact:	onlinesales@tmotor.com

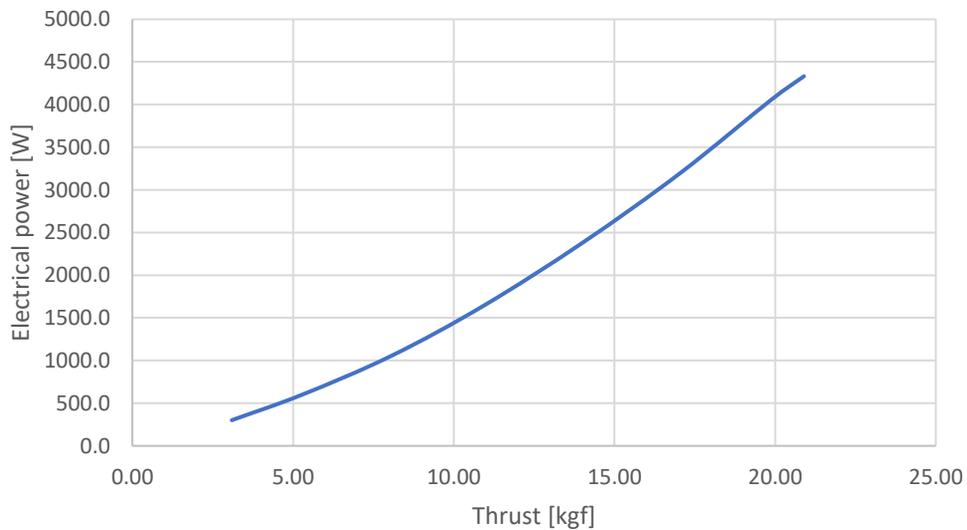
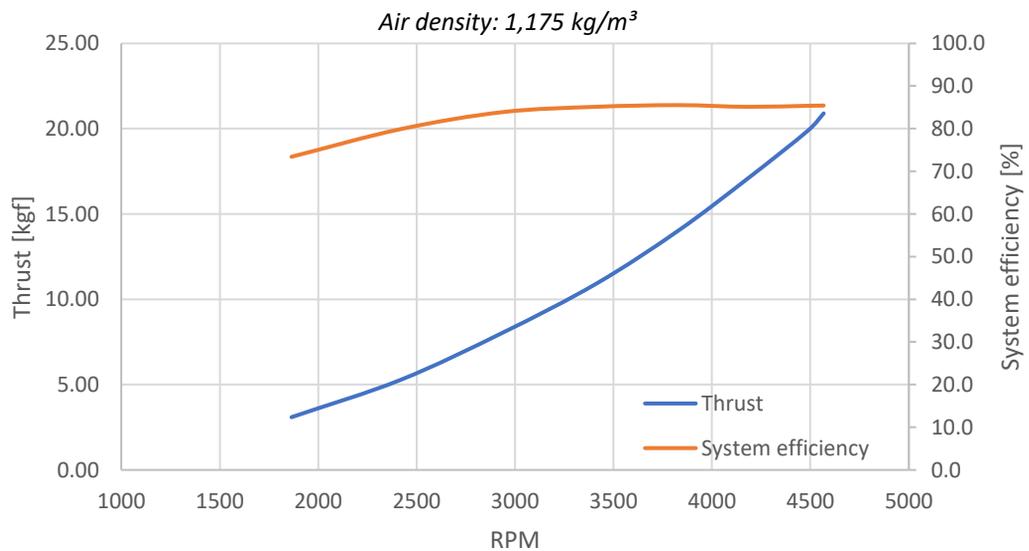
Propeller

Name:	30x10 2B MC
Manufacturer:	Mejzlik
Diameter ["]:	30
Pitch ["]:	10
Mass [g]:	71
Contact:	info@mejzlik.eu

Measurements

ID 0089

PWM [μ s]	Rotational Speed [RPM]	Thrust [kg]	Torque [Nm]	Voltage [V]	Current [A]	Mechanical Power [W]	Electrical Power [W]	System Efficiency [%] ^[1]
1352	1864	3.09	1.14	47.8	6.3	221.9	302.4	73.4
1436	2417	5.28	1.89	47.8	12.6	479.6	600.7	79.8
1520	2938	8.05	2.87	47.8	22.1	884.5	1054.8	83.9
1604	3416	10.94	3.92	47.8	34.4	1400.9	1646.3	85.1
1688	3830	14.03	5.09	47.8	49.9	2041.5	2388.2	85.5
1772	4178	17.04	6.22	47.8	66.8	2720.7	3197.4	85.1
1856	4487	19.88	7.37	47.6	85.2	3463.7	4059.0	85.3
1940	4568	20.89	7.74	47.4	91.5	3700.2	4333.6	85.4



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