

## System Specifications



**22,0 Kg**

Maximal Thrust



**32"**

Propeller Diameter



**48 V**

Voltage



**1610 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:	<a href="#">Aster Co., Ltd.</a>

### ESC

Name:	<a href="#">Alpha 120A HV12S</a>
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:	<a href="mailto:onlinesales@tmotor.com">onlinesales@tmotor.com</a>

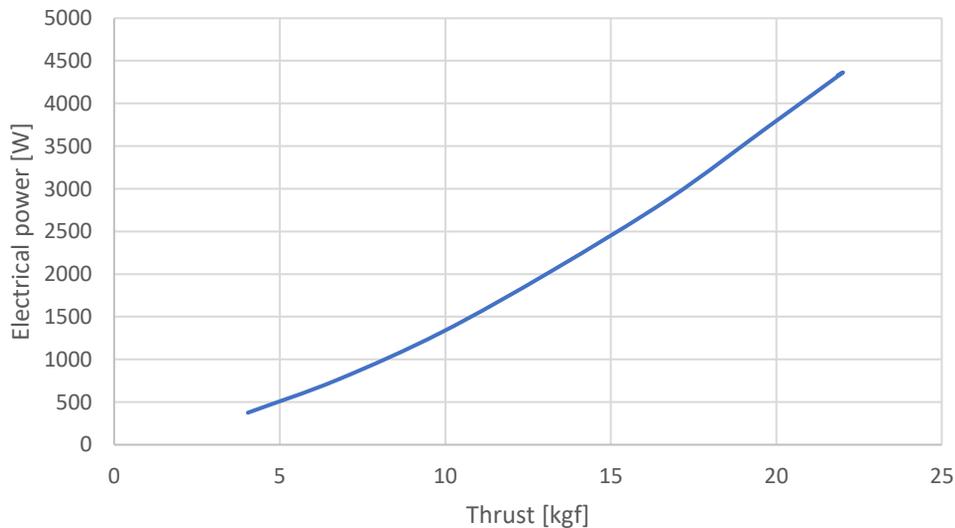
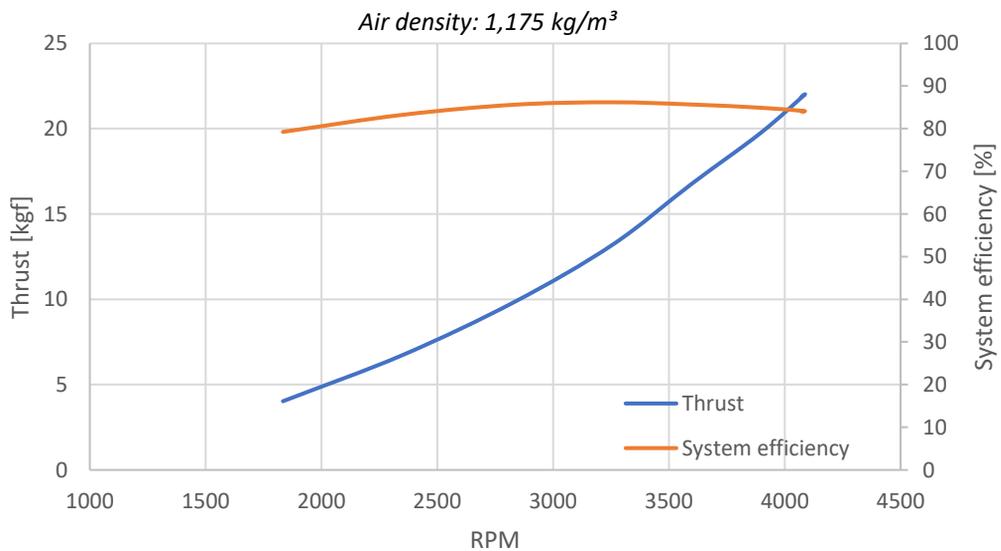
### Propeller

Name:	<a href="#">32x10.6 2B MC</a>
Manufacturer:	Mejzlik
Diameter ["]:	32
Pitch ["]:	10.6
Mass [g]:	100
Contact:	<a href="mailto:info@mejzlik.eu">info@mejzlik.eu</a>

# Measurements

ID 0090

PWM [ $\mu$ s]	Rotational Speed [RPM]	Thrust [kg]	Torque [Nm]	Voltage [V]	Current [A]	Mechanical Power [W]	Electrical Power [W]	System Efficiency [%] <sup>[1]</sup>
1352	1834	4.03	1.5	47.8	7.8	296.5	374.2	79.3
1436	2352	6.75	2.6	47.8	15.9	633.7	761.1	83.3
1520	2837	9.87	3.8	47.9	27.4	1125.0	1313.6	85.6
1604	3257	13.20	5.1	47.9	42.5	1753.1	2033.8	86.2
1688	3599	16.77	6.6	47.9	60.2	2471.2	2884.3	85.7
1772	3897	19.76	7.8	47.8	77.9	3163.8	3725.6	84.9
1856	4088	22.02	8.6	47.7	91.4	3669.6	4361.9	84.1
1940	4072	21.86	8.5	47.7	90.8	3637.5	4328.6	84.0



<sup>[1]</sup> Includes motor efficiency, controller efficiency, wire and connectors losses.