

## System Specifications



**5,9 Kg**

Maximal Thrust



**24"**

Propeller Diameter



**48 V**

Voltage



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

### ESC

Name:	<a href="#">Alpha 60A HV12S</a>
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:	<a href="mailto:onlinesales@tmotor.com">onlinesales@tmotor.com</a>

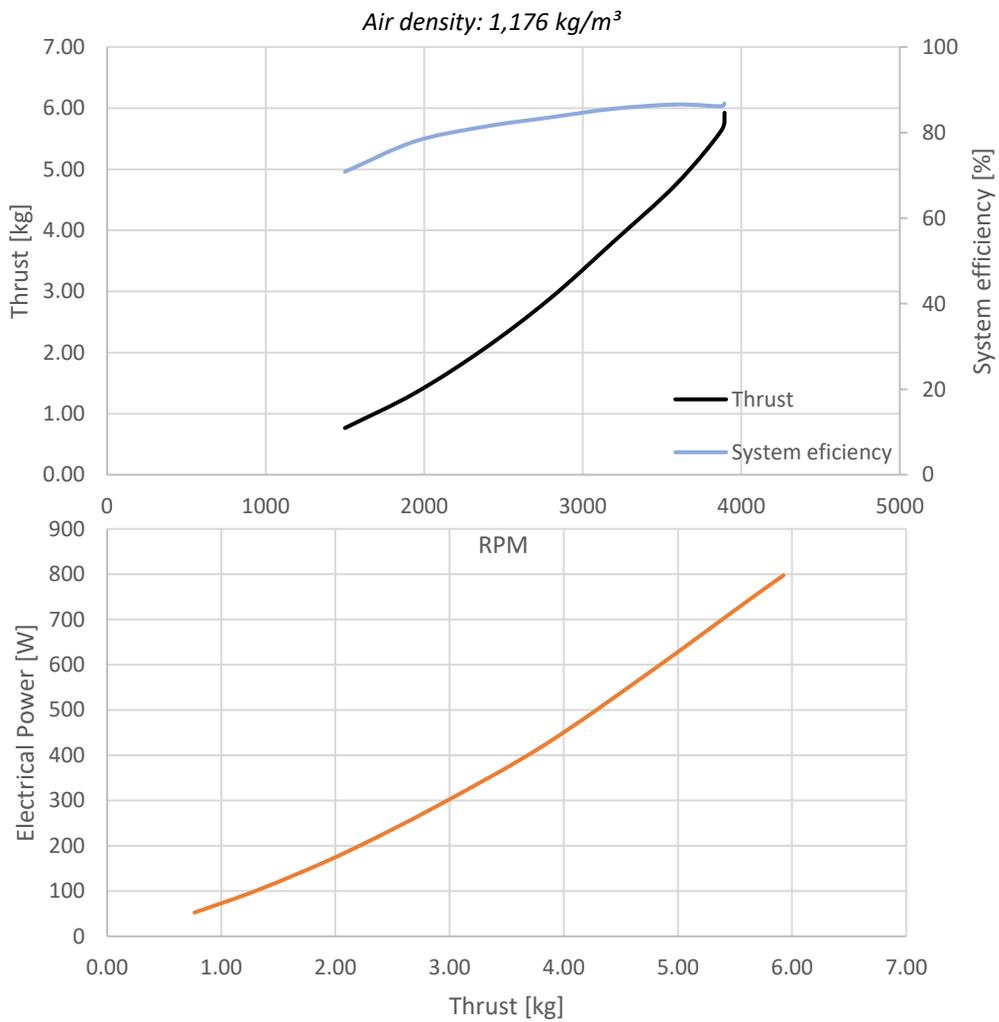
### Propeller

Name:	<a href="#">24x8.1 2B MC</a>
Manufacturer:	Mejzlik
Diameter ["]:	24
Pitch ["]:	8.1
Mass [g]:	57
Contact:	<a href="mailto:info@mejzlik.eu">info@mejzlik.eu</a>

# Measurements

ID 0086

PWM [μs]	Rotational Speed [RPM]	Thrust [kg]	Torque [Nm]	Voltage [V]	Current [A]	Mechanical Power [W]	Electrical Power [W]	System Efficiency [%] <sup>[1]</sup>
1370	1470	1.02	0.33	47.8	1.5	50.7	70.0	72.6
1460	1904	1.75	0.55	47.8	2.9	109.6	138.7	79.0
1550	2313	2.63	0.81	47.8	5.0	196.6	239.9	82.0
1640	2707	3.63	1.11	47.7	7.8	313.4	373.9	83.8
1730	3075	4.73	1.43	47.7	11.4	460.9	545.4	84.5
1820	3396	5.89	1.80	47.7	15.9	641.7	757.4	84.7
1910	3628	6.96	2.13	47.7	20.1	807.8	959.4	84.2
2000	3663	7.03	2.15	47.7	20.7	822.7	985.1	83.5



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