

## System Specifications



**7.58 Kg**

Maximal Thrust



**22"**

Propeller  
Diameter



**44.4 V**

Voltage



**419 g**

Mass

### Motor

Name:	EC 69 flat UAV
Part number:	725770
Manufacturer:	Maxon
KV [RPM/V]:	159
Mass [g]:	269
Max continuous Current [A]:	21.2
Max peak Current [A]:	45
Contact:	aerospace@maxongroup.com

### ESC

Name:	UAV-ESC 52/30
Part number:	654541
Manufacturer:	Maxon
Mass [g]:	102
Max continuous Current [A]:	30
Max peak Current [A]:	90
Voltage [V]:	9-52.2
Contact:	aerospace@maxongroup.com

### Propeller

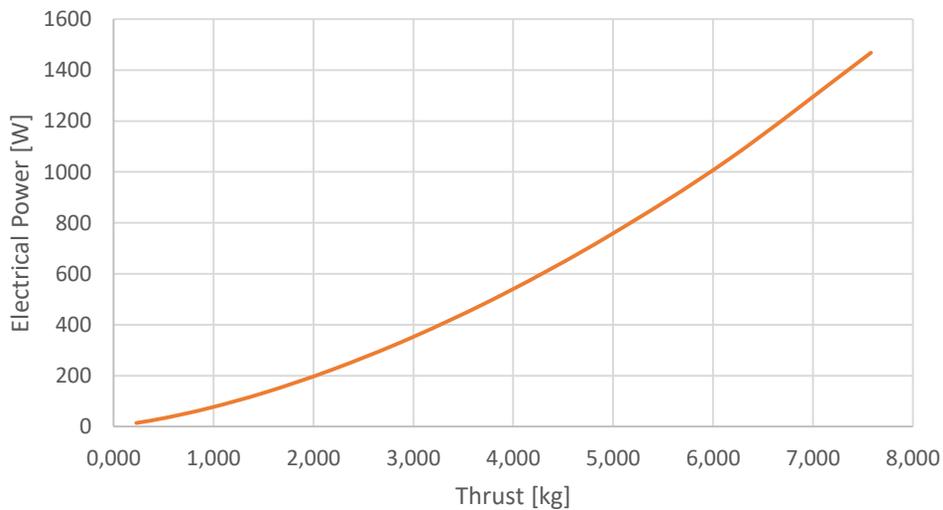
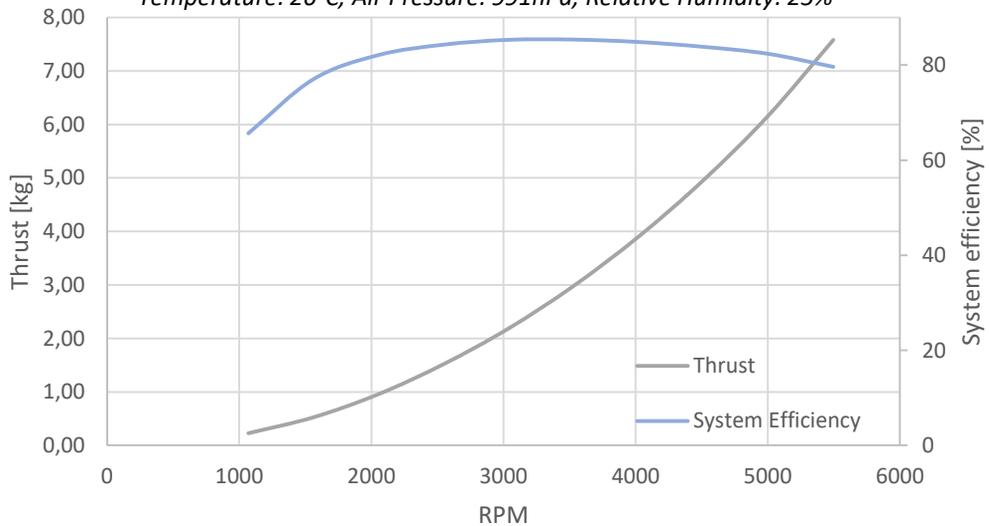
Name:	<a href="#">22x7.4</a>
Manufacturer:	Mejzlik
Diameter ["]:	22
Pitch ["]:	7.4
Mass [g]:	48
Contact:	info@mejzlik.eu

# Measurements

ID 0062

Throttle [%] <sup>[1]</sup>	Rotational Speed [RPM]	Thrust [kg]	Torque [Nm]	Voltage [V]	Current [A]	Mechanical Power [W]	Electrical Power [W]	System Efficiency [%] <sup>[2]</sup>
16	1069	0.23	0.08	44.5	0.3	9.3	14.2	65.6
22	1561	0.52	0.17	44.5	0.8	27.0	35.0	77.0
28	2053	0.96	0.28	44.5	1.6	60.0	73.0	82.1
34	2545	1.52	0.42	44.5	3.0	113.2	134.3	84.3
40	3037	2.18	0.60	44.5	5.0	190.3	223.1	85.3
46	3529	2.98	0.81	44.4	7.8	297.6	348.7	85.4
51	4021	3.90	1.05	44.4	11.7	441.3	520.1	84.8
57	4513	4.96	1.33	44.3	16.9	627.9	749.0	83.8
64	5005	6.17	1.65	44.3	23.8	866.3	1051.9	82.4
70	5497	7.58	2.03	44.2	33.2	1169.1	1468.3	79.6

Temperature: 26°C, Air Pressure: 991hPa, Relative Humidity: 25%



<sup>[1]</sup>Depends on Maxon ESC parameter settings. Throttle to RPM ratio can be configured individually and does not necessarily correspond to PWM duty cycle.

<sup>[2]</sup>Includes motor efficiency, controller efficiency, wire and connectors losses.