

System Specifications



3.72 Kg

Maximal Thrust:



18"

Propeller
Diameter



22.2 V

Voltage



320 g

Mass

Motor

Name:	M-4215-320kv
Manufacturer:	Scorpion
KV [RPM/V]:	325
Mass (Inc. Cables) [g]:	228
Max Continuous Current [A]:	30
Max Peak Current (2s) [A]:	40
Voltage [V]:	42
Contact:	support@spihk.com

ESC

Name:	Tribunus 06-80A ESC SBEC
Manufacturer:	Scorpion
Mass (Inc. Cables) [g]:	74
Max continuous Current [A]:	80
Max peak Current (2s) [A]:	120
Voltage [V]:	26.1
Contact:	support@spihk.com

Propeller

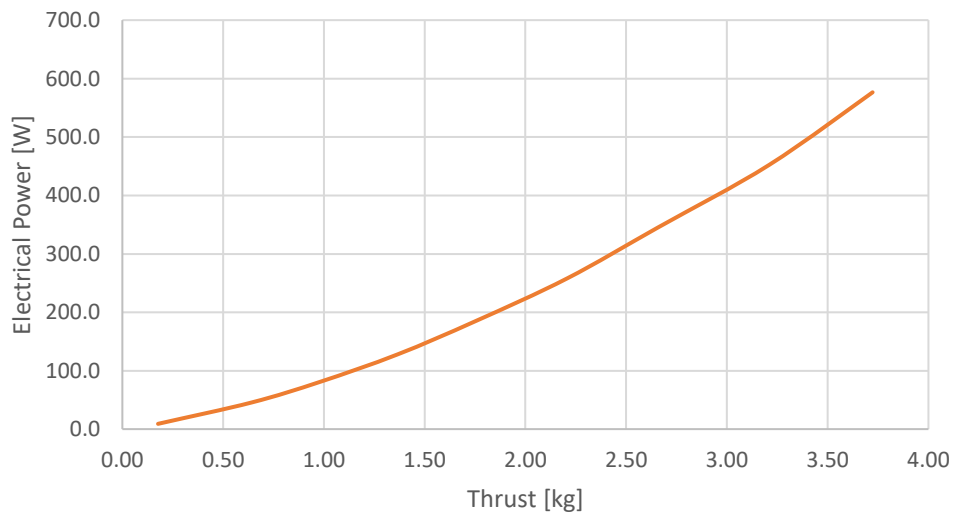
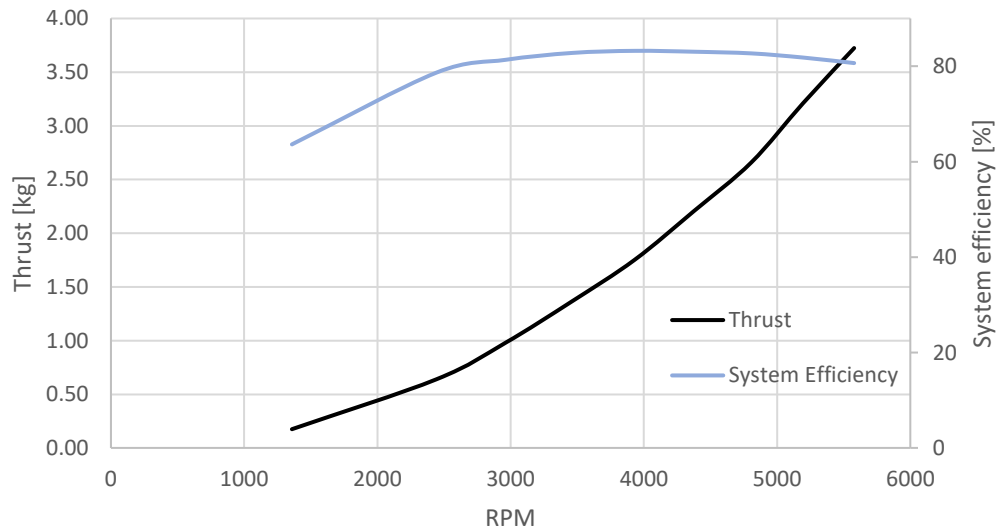
Name:	18x6
Manufacturer:	Mejzlik
Diameter ["]:	18
Pitch ["]:	6
Mass [g]:	24
Contact:	info@mejzlik.eu

Measurements

ID 0020

Throttle [%]	Rotational Speed [RPM]	Thrust [kg]	Torque [Nm]	Voltage [V]	Current [A]	Mechanical Power [W]	Electrical Power [W]	System Efficiency [%] ^[1]
20	1358	0.18	0.04	22.2	0.4	6.0	9.4	63.7
38	2443	0.64	0.14	22.2	2.1	36.1	45.9	78.7
47	2960	0.98	0.21	22.1	3.7	66.0	81.1	81.3
56	3458	1.37	0.29	22.1	5.8	106.0	128.1	82.8
64	3930	1.75	0.37	22.1	8.4	153.9	185.0	83.2
73	4376	2.21	0.47	22.0	11.7	214.3	258.2	83.0
82	4806	2.66	0.57	21.9	15.8	285.5	345.4	82.7
91	5194	3.21	0.68	21.8	20.7	369.8	452.1	81.8
100	5578	3.72	0.80	21.7	26.5	464.8	576.3	80.7

Temperature: 25.9°C, Air Pressure: 1011hPa, Relative Humidity: 29%



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