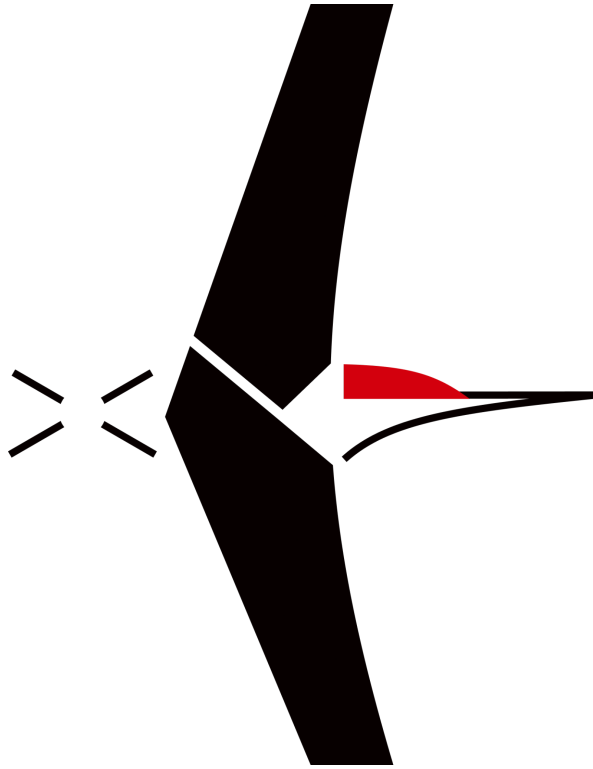
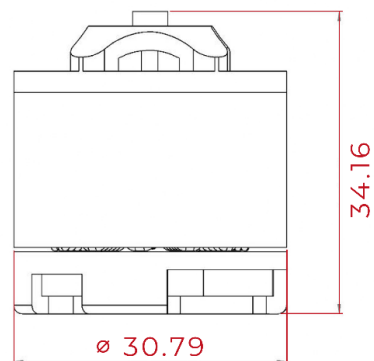
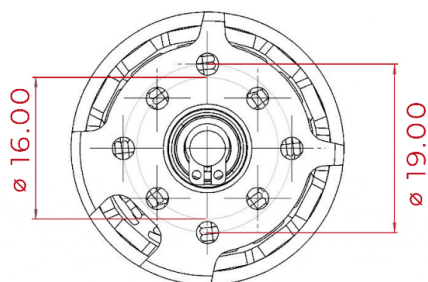
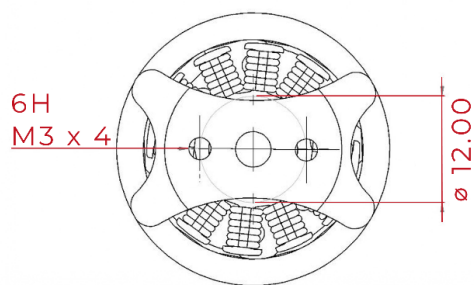




Flameback

Advanced Propulsion Systems

**2415 KV1200
BLDC MOTOR**



Flameback 2415 KV 1200 BLDC: Detailed Drawing

Motor		Flameback FT2415 KV1200			ESC	
Timestamp		12/06/2025			Max Power	
Power Mode		4S			Max Current	
Log #		2025061228344			Weight (incl. cable)	
Configuration		12N14P			Stator	
Notes		NA				
Throttle %	Optical Speed RPM	Commutation Speed RPM	Voltage V	Current A	Thrust g	Torque N·m
10	2865	2864.8	16.788	0.762	137	0.022
20	4192	4190.065	16.767	2.074	295	0.047
30	5276.4	5275.4	16.734	4.177	501	0.078
40	6688.034	6687.034	16.12	8.236	824	0.126
50	7808.71	7803.71	16.589	13.199	1116	0.173
60	8677.645	8677.645	16.482	19.855	1464	0.224
70	9415.333	9405.333	16.366	26.549	1718	0.267
80	10045.29	10040.29	16.23	34.431	2014	0.31
90	10600.267	10597.267	16.085	42.641	2198	0.343
100	10770.233	10761.233	15.981	47.906	2296	0.363

Flameback 6S		Propeller	11 x 4.5
800W		Barometric pressure	98.43 kPa
50A		Ambient Temp	37.8 C
90g		Ambient Humidity	46.36% RH
Japanese 0.2mm		Air Density	1.102 kg/m3

IR Temp °C	Electrical P W	Shaft P W	Electric Drive Eff %	Propeller Thrust Eff gf/W	System Force Eff gf/W
34.8	12.792	6.6	51.595	20.758	10.71
34.7	34.775	20.623	59.304	14.304	8.483
34.9	69.898	43.09	61.647	11.627	7.168
35	137.302	88.233	64.262	9.339	6.001
35.8	218.958	141.376	64.568	7.894	5.097
36.2	327.201	203.553	62.201	7.192	4.474
37	434.501	262.975	60.523	6.533	3.954
38.7	558.815	325.939	58.327	6.136	3.579
40.9	685.88	380.642	55.497	5.774	3.205
43.7	765.586	409.07	53.432	5.613	2.999