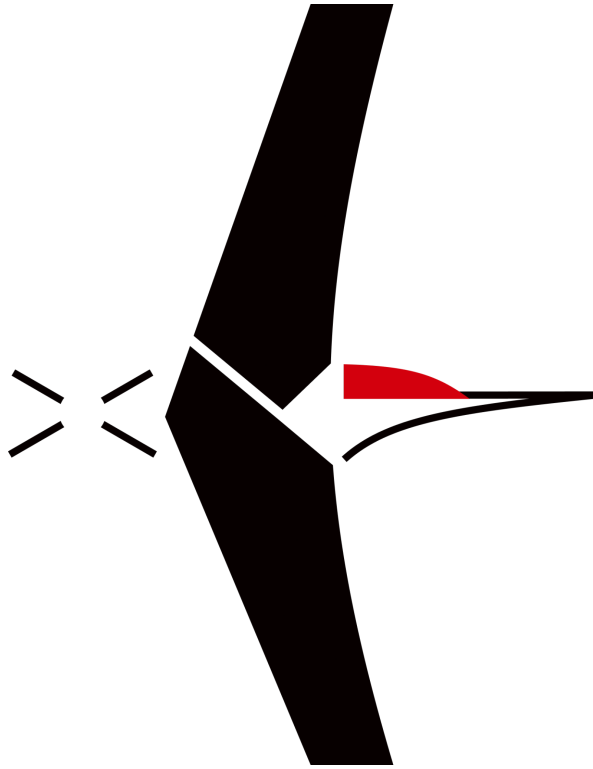


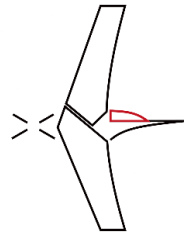


Flameback

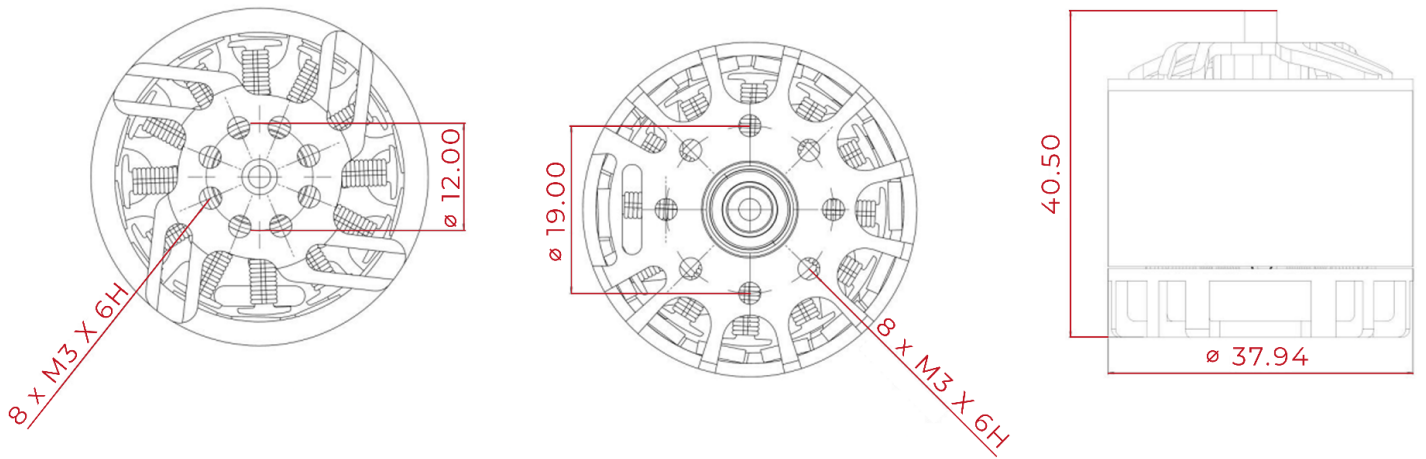
Advanced Propulsion Systems

3210 KV500

BLDC Motor

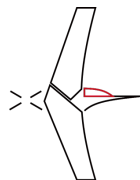


Flameback



Flameback 3120 KV 500 BLDC: Detailed Drawing

Flameback



Motor		Flameback FT3120 KV500			ESC		Flameback 6S			Propeller		11 x 4.5	
Timestamp		12/06/2025			Max Power		800W			Barometric pressure		98.43 kPa	
Power Mode		6s			Max Current		25A			Ambient Temp		37.8 C	
Log #		2025061228444			Weight (incl. cable)		146 g			Ambient Humidity		46.36% RH	
Configuration		12N14P			Stator		Japanese 0.2mm			Air Density		1.102 kg/m3	
Notes		NA											
Throttle %	Optical Speed RPM	Commutation Speed RPM	Voltage V	Current A	Thrust g	Torque N·m	IR Temp °C	Electrical P W	Shaft P W	Electric Drive Eff %	Propeller Thrust Eff gf/W	System Force Eff gf/W	
10	2892	2892	24.553	0.51	115	0.019	28.3	12.522	5.755	45.959	19.983	9.184	
20	3899	3899	24.54	1.039	234	0.035	28.3	25.497	14.292	56.054	16.373	9.178	
30	4716	4716	24.525	1.69	354	0.052	28.4	41.447	25.683	61.966	13.783	8.541	
40	5645	5645	24.499	2.759	535	0.078	28.4	67.593	46.111	68.219	11.602	7.915	
50	6717	6717	24.457	4.437	766	0.112	28.4	108.516	78.781	72.599	9.723	7.059	
60	7830	7830	24.393	6.939	1038	0.16	28.5	169.263	131.209	77.518	7.911	6.132	
70	8773	8773	24.312	10.223	1396	0.212	28.8	248.542	193.847	77.994	7.202	5.617	
80	9655	9655	24.225	13.155	1650	0.254	29	318.68	256.813	80.586	6.425	5.178	
90	10525	10525	24.094	18.528	2073	0.323	29.3	446.414	356.009	79.749	5.823	4.644	
100	11083	11083	23.981	22.532	2353	0.374	29.6	540.34	434.096	80.338	5.42	4.355	