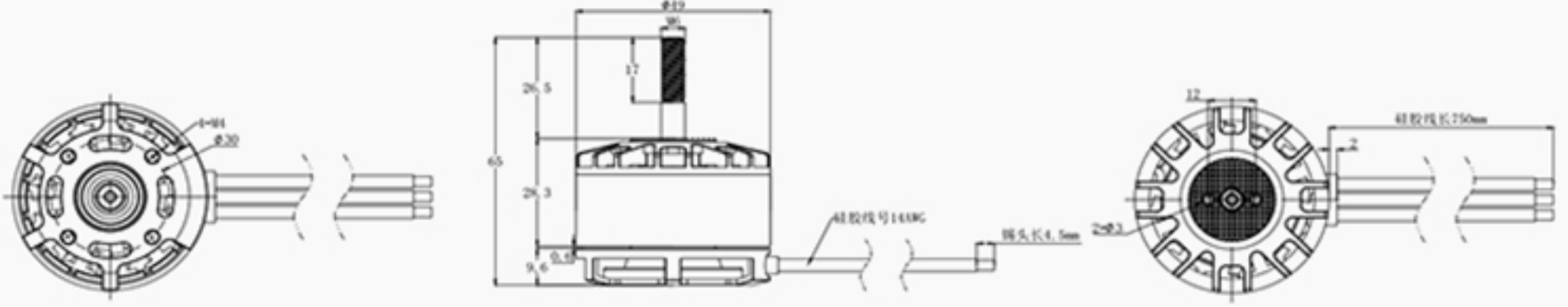


Tornado T7 4215 Test Report

Tester:	YH Zheng	Auditor:	Melo Lee	Date:	2018/4/8	Test Report:	4215A2018040801
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Drawing



Specification

KV	520KV	Configuration	12N14P
Stator Dimension (mm)	42.00	Stator Height (mm)	15
AWG	14#,750mm Length	Motor Dimension (mm)	Φ49×65
Weight Including Cable (g)	261.58	Magnet	N52H
Internal Resistance(mΩ)	49.27	Idle Current@10V (A)	1.78
No. of Cells(Lipo) (S)	8S	ESC	8S 60A
Max power (W)	1630.73	Propeller	13 inch
Max Current (A)	56.53	Hipot test@500V AC	PASS
Dynamic balance requirement standards	≤6mg	Impluse winding test	PASS

Load Test Data

Item No.	Prop (inch)	Throttle (%)	Voltage (V)	Current (A)	RPM	Thrust (gf)	Torque (N·M)	Input Power (W)	Thrust efficiency (G/W)	Copper wire temperature (°C)
4215 520KV	13*8.0*3	30	29.65	3.19	3786	525.68	0.158	94.71	5.55	102°C (Ambient temperature is 26 °C)
		40	29.63	6.53	4940	973.36	0.265	193.46	5.03	
		45	29.61	8.53	5475	1232.02	0.318	252.53	4.88	
		50	29.57	11.44	6048	1525.22	0.381	338.12	4.51	
		55	29.51	14.98	6631	1903.88	0.541	442.12	4.31	
		60	29.47	17.88	7049	2160.04	0.543	526.77	4.10	
		65	29.40	22.15	7543	2493.01	0.634	651.06	3.83	
		70	29.32	26.55	8018	2833.34	0.696	778.39	3.64	
		75	29.25	31.25	8430	3193.75	0.790	914.03	3.49	
		80	29.17	35.78	8852	3458.52	0.848	1043.90	3.31	
		85	29.09	41.20	9238	3802.80	0.929	1198.39	3.17	
		90	28.99	47.74	9594	4177.43	1.031	1384.17	3.02	
		95	28.90	53.60	9992	4467.93	1.090	1549.26	2.88	
		100	28.85	56.53	10085	4666.92	1.145	1630.73	2.86	

The temperature is motor inside copper wire temperature @ 100% throttle running 1 mins.
The test base on 2018 BrotherHobby bench for reference only.

Specification

KV	520KV	Configuration	12N14P
Stator Dimension (mm)	42.00	Stator Height (mm)	15
AWG	14#,750mm Length	Motor Dimension (mm)	Φ49×65
Weight Including Cable (g)	261.58	Magnet	N52H
Internal Resistance(mΩ)	49.27	Idle Current@10V (A)	1.78
No. of Cells(Lipo) (S)	8S	ESC	8S 60A
Max power (W)	1492.82	Propeller	15 inch
Max Current (A)	51.83	Hipot test@500V AC	PASS
Dynamic balance requirement standards	≤6mg	Impluse winding test	PASS

Load Test Data

Item No.	Prop (inch)	Throttle (%)	Voltage (V)	Current (A)	RPM	Thrust (gf)	Torque (N·M)	Input Power (W)	Thrust efficiency (G/W)	Copper wire temperature (°C)
4215 523KV	15*4.0 CF	30	29.55	2.49	3989	526.79	0.130	73.51	7.17	106°C (Ambient temperature is 26 °C)
		40	29.53	5.19	5125	977.83	0.214	153.20	6.38	
		45	29.52	7.09	5700	1260.91	0.269	209.44	6.02	
		50	29.48	9.67	6327	1603.74	0.332	285.03	5.63	
		55	29.44	12.31	6844	1938.64	0.397	362.31	5.35	
		60	29.39	15.66	7365	2271.19	0.463	460.31	4.93	
		65	29.32	19.36	7914	2651.30	0.544	567.76	4.67	
		70	29.26	22.97	8318	3000.74	0.606	671.97	4.47	
		75	29.19	27.25	8724	3354.42	0.676	795.53	4.22	
		80	29.12	31.63	9135	3749.15	0.756	921.06	4.07	
		85	29.04	36.83	9560	4132.76	0.824	1069.31	3.86	
		90	28.95	42.95	9932	4533.46	0.913	1243.15	3.65	
		95	28.84	49.38	10332	4935.42	0.999	1424.23	3.47	
		100	28.80	51.83	10390	5126.67	1.045	1492.82	3.43	

The temperature is motor inside copper wire temperature @ 100% throttle running 1 mins.
The test base on 2018 BrotherHobby bench for reference only.