

Motor	TurBORIX DAT-750 (Jack Erbes): ~827Kv: 82g (86g with mount): ~17A max., 8.28.11. Markus 45A ESC [12-stator arms/14 magnet poles]
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Temperatures (21°C) from Rear windings , v3 temps: init...end of run...**max.** (probe on mount screw)

No-load:

7.0v, 1.20A, 5635rpm

Drivecale: ~827Kv, Rm = 0.164Ω

8.0v, 1.25A, 6427rpm

10.0v, 1.45A, 8045rpm

Max: 206.72% @ 10A: Efficiency at suggested max: (17A) = 68%

r2hobbies.com specs: 80g, 750Kv, 3s, 135W/150W max, Io = 1.5A @ 11.1v (8600rpm)

Recommended prop: 11x4.7 APC SF (11.1v, 19A, 6350rpm)

Prop	Volts	Amps	Watts	RPM	Pitch speed (mph)	Thrust (g)	Thrust (oz)	g/W	RPM % Kv x V
10x5 APC E									
Motor 24°C, on PS: 7v	6.9	5.35	37	5040	23.9	333	11.73	9.00	
8v	7.8	6.40	50	5640	26.7	413	14.54	8.26	
9v	8.8	7.60	67	6210	29.4	511	17.99	7.63	
10v	9.8	8.95	87	6810	32.2	617	21.73	7.09	
169mAh, 38°C: 11v	10.7	10.35	111	7350	34.8	724	25.49	6.52	83%
v3 20°C...24°C...31°C									
11x5.5 APC E									
Motor 27°C, on PS: 7v	6.8	6.65	45	4860	25.3	408	14.37	9.07	
8v	7.8	8.10	63	5400	28.1	527	18.56	8.37	
9v	8.8	9.70	85	5970	31.1	645	22.71	7.59	
10v	9.7	11.40	111	6480	33.8	773	27.22	6.96	
200mAh, 41°C: 11v	10.7	13.10	140	6990	36.4	902	31.76	6.44	79%
v3 23°C...25°C...33°C									
11x4.7 APC SF									
Motor 27°C, on PS: 7v	6.8	8.10	55	4680	20.8	493	17.36	8.96	
8v	7.7	10.00	77	5340	23.8	620	21.83	8.05	
9v	8.7	11.90	103	5640	25.1	750	26.41	7.28	
10v	9.6	14.05	136	6060	27.0	900	31.69	6.62	
310mAh, 48°C: 11v	10.6	16.25	172	6480	28.8	1047	36.87	6.09	74%
v3 23°C...28°C...39°C									
+97mAh, to 60°C: 11.4v	11.1	17.30	192	6720	29.9	1123	39.54	5.85	73%