

Motor	2212/13: 1000Kv: 50g: 12A (150W) max 4.11.07, PH 25A ESC
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Temperatures (52°C) from Rear mount plate

No-load:

7.0v, 0.60A, 7380 rpm

8.0v, 0.65A, 8460 rpm

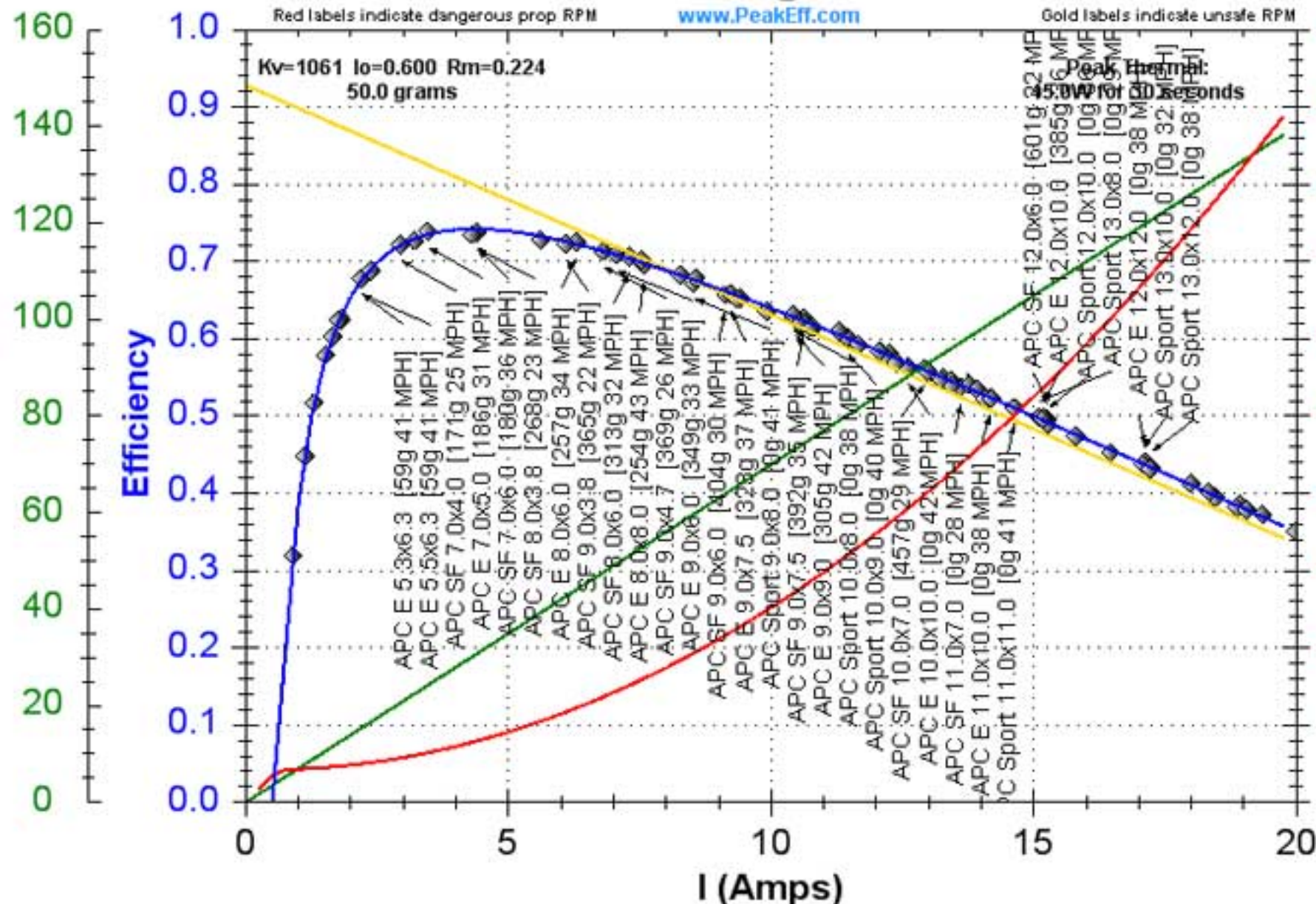
10.0v, 0.75A, 10500 rpm

Peak Effic. Calc: Kv: ~1061Kv, Rm: ~ 0.276 ohms

Prop	Volts	Amps	Watts	RPM	Pitch Speed (mph)	Thrust (g)	Thrust (oz)	g/W
8x4 GWS HD								
Motor 27°C: Set on PS: 7v	7.0	3.35	23	6630	25.1	226	7.96	9.83
8v	7.9	4.10	32	7410	28.1	287	10.11	8.97
9v	8.9	4.85	43	8220	31.1	347	12.22	8.07
10v	9.9	5.65	56	8940	33.9	420	14.79	7.50
77mAh, 32°C: 11v	10.9	6.50	71	9660	36.6	495	17.43	6.97
9x5 GWS HD								
Motor 25°C: Set on PS: 7v	6.9	5.50	38	6000	28.4	348	12.25	9.16
8v	7.9	6.70	53	6660	31.5	436	15.35	8.23
9v	8.9	7.85	70	7290	34.5	526	18.52	7.51
10v	9.9	9.25	92	7920	37.5	627	22.08	6.82
130mAh, 38°C: 11v	10.9	10.45	113	8430	39.9	715	25.18	6.33
10x5 APCE								
Motor 31°C: Set on PS: 7v	6.9	7.00	48	5610	26.6	406	14.30	8.46
8v	7.9	8.45	66	6120	29.0	505	17.78	7.65
9v	8.9	9.90	87	6690	31.7	604	21.27	6.94
10v	9.9	11.45	112	7170	33.9	702	24.72	6.27
214mAh, 53°C: 11v	10.9	13.00	141	7650	36.2	802	28.24	5.69
10x6 GWS HD								
Motor 22°C: Set on PS: 7v	6.9	7.20	50	5610	31.9	424	14.93	8.48
8v	7.9	8.70	69	6180	35.1	526	18.52	7.62
9v	8.9	10.10	89	6690	38.0	617	21.73	6.93
10v	9.9	11.70	115	7200	40.9	722	25.42	6.28
156mAh, 43°C: 11v	10.9	13.25	144	7680	43.6	817	28.77	5.67
10x8 GWS HD								
Motor 25°C: Set on PS: 11v	10.8	18.20	195	6390	48.4	733	25.81	3.76
+60mAh, to 44°C:								

2212/13 @7.0 volts

Motor Pin (W)



2212/13 @10.9 volts

www.PeakEff.com

Motor Pin (W)

300
250
200
150
100
50
0

Efficiency

1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0

Red labels indicate dangerous prop RPM

Kv=1061 Io=0.750 Rm=0.276
50.0 grams

Gold labels indicate unsafe RPM

Peak Thermal:
45.0W for 30 MPH

200
150
100
50
0

Thermal Power (W)

RPM (10^3)

14
12
10
8
6
4
2
0

