

C7225 电机技术参数

基础参数 Specification I

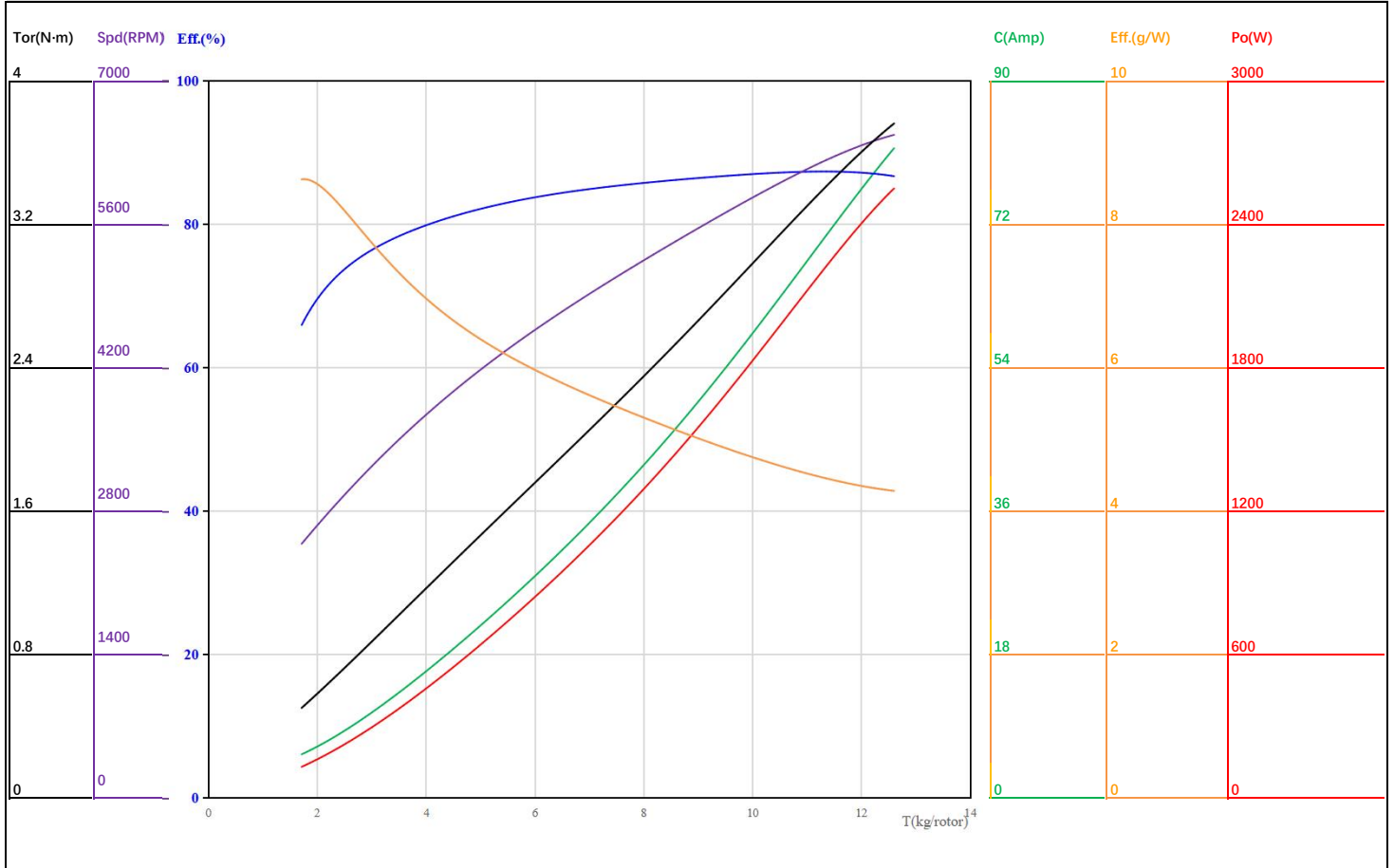
产品型号 Model	C7225-190KV	防尘防水等级 Protection level	IPX5
电机尺寸 Motor Size	Φ80.9*H62 mm	槽极数 Slot& Pole	24槽22极 24N22P
定子尺寸 Stator Size	Φ72*H25 mm	电机整体动平衡标准 Dynamic balance	≤15 mg
定子工艺 Stator process	高品质硅钢片, 防锈处理, 耐180°C高温涂覆 High standard silicon steel sheet, rust proof, 180 °C high temperature resistance paint-coat	轴承型号 Bearing	高品质防水轴承 Water proof bearing
漆包线等级 Enamelled wire	220 °C	出轴轴径 Motor axle diameter	Φ10 mm
磁铁等级 Magnet	180 °C	桨叶安装孔尺寸 Props mounting dimensions	4xM3@D20 mm, 4xM4@D23 mm
线圈绝缘测试 Isolation test	500V交流耐压测试 500V AC high voltage resistance test	电机安装孔尺寸 Motor mounting dimensions	4xM4@D36 mm
额定输入功率 Rated power input	950 W	额定输出功率 Rated power output	770 W

技术参数 Specification II

KV值 KV	190 KV
额定电压 Battery (LiPo)	LiPo-12S (48V)
空载电流 No-load current	5.76 A
最大电流/A (非密闭环境温度 ≤25 °C) Maximum current (non-hermetic ambient temperature ≤ 25°C)	137.6 A
最大功率 Max power	6611 W
最大拉力 Max thrust	19.7 kg
相间内阻 Resistance	17.1 mΩ
出线规格 Wire Size	漆包线直出 enameled wire direct lead-out
三相线出线长度 Three-phase wires length	100 mm
电机重量 (含线) Weight (With cable)	755 g

190KV+22x12 负载性能参数 Load performance parameters

曲线图 Graph



拉力数据表 Motor Propeller Pull Test Data

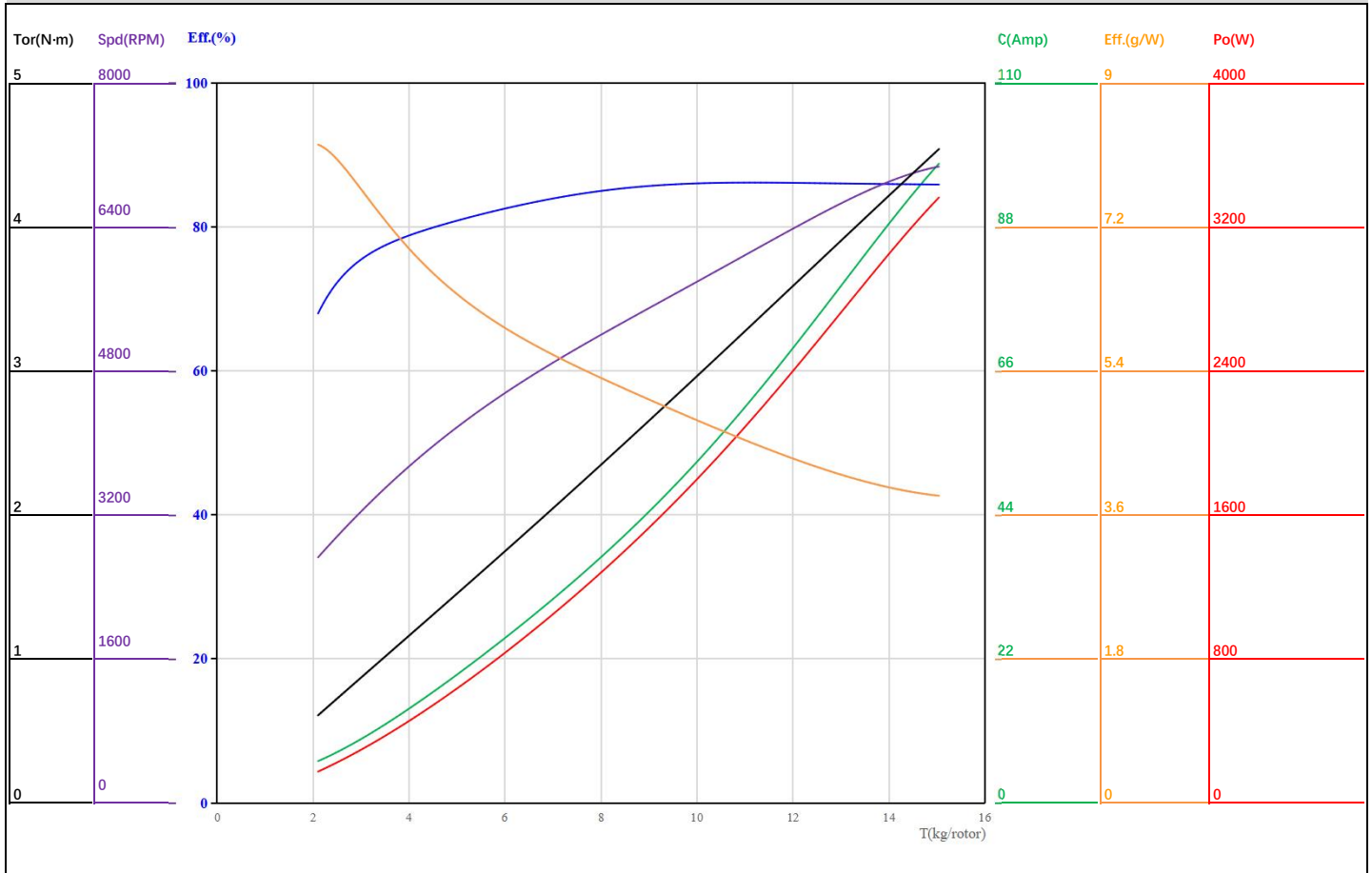
Voltage(V) 工作电压	Propeller 螺旋桨	Throttle(%) 油门	Thrust(g) 拉力	Current(A) 电流	Power(W) 输入功率	Speed(RPM) 转速	Efficiency(g/W) 力效	Torque(N-m) 扭矩	Power Output(W) 输出功率	Temperature(°C) 电机温度
36V (10S LiPo)	22x12	33%	1761	5.7	204.1	2514	8.6	0.52	136.1	46°C
		35%	1969	6.4	229.6	2644	8.6	0.57	159.1	
		37%	2185	7.2	258.8	2776	8.4	0.64	184.8	
		39%	2410	8.1	291.5	2908	8.3	0.70	213.2	
		42%	2760	9.6	346.9	3108	8.0	0.80	261.1	
		45%	3127	11.4	409.9	3307	7.6	0.91	315.5	
		48%	3513	13.3	480.4	3506	7.3	1.03	376.6	
		51%	3919	15.5	558.5	3705	7.0	1.15	444.8	
		54%	4347	17.9	644.5	3902	6.7	1.27	520.4	
		57%	4800	20.5	738.8	4098	6.5	1.41	604.0	
		60%	5278	23.3	842.2	4294	6.3	1.55	696.1	
		63%	5783	26.5	955.4	4489	6.1	1.70	797.3	
		66%	6316	29.9	1079.4	4684	5.9	1.85	908.5	
		69%	6877	33.7	1215.4	4880	5.7	2.02	1030.6	
		72%	7462	37.8	1364.5	5075	5.5	2.19	1164.4	
		75%	8070	42.4	1527.5	5272	5.3	2.37	1310.8	
		78%	8694	47.3	1704.2	5468	5.1	2.57	1469.9	
		81%	9327	52.5	1893.2	5662	4.9	2.77	1640.3	
		84%	9958	58.0	2090.9	5849	4.8	2.97	1818.6	
		87%	10576	63.5	2291.1	6025	4.6	3.17	1998.5	
90%	11165	68.9	2485.0	6181	4.5	3.35	2170.7			
100%	12597	81.5	2940.9	6473	4.3	3.76	2549.9			

*以上数据为好盈实验室于室温 25°C、海平面高度，变化油门输入调节测得，电机温度为65%油门运行10分钟数据，仅供参考。

*The above data was measured by HOBBYWING Laboratory at room temperature 25°C, at sea level, with varying throttle input. The motor temperature is measured after running for 10 minutes at 65% throttle, for reference only.

190KV+22x12 负载性能参数 Load performance parameters

曲线图 Graph



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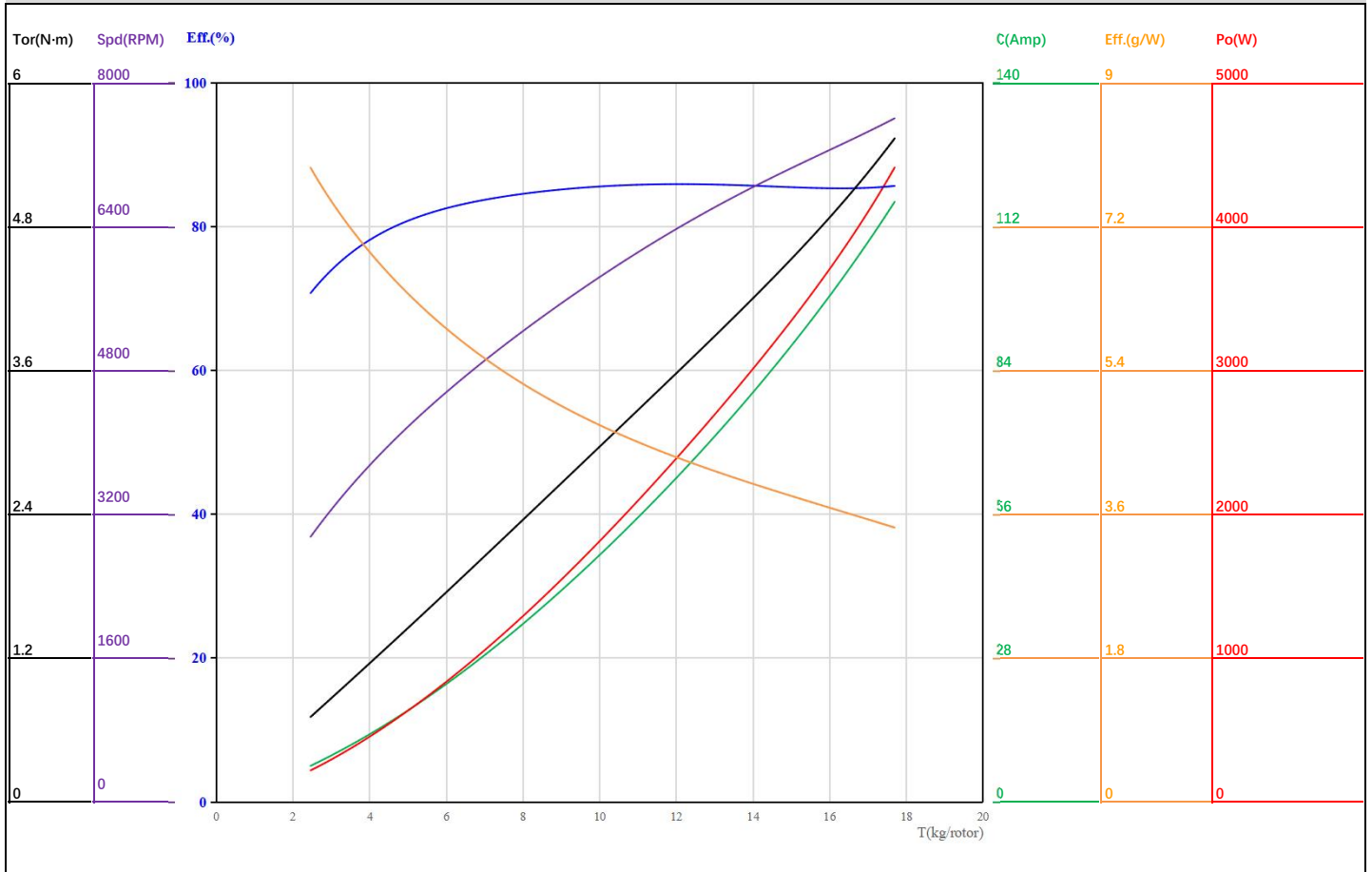
Voltage(V) 工作电压	Propeller 螺旋桨	Throttle(%) 油门	Thrust(g) 拉力	Current(A) 电流	Power(W) 输入功率	Speed(RPM) 转速	Efficiency(g/W) 力效	Torque(N·m) 扭矩	Power Output(W) 输出功率	Temperature(°C) 电机温度
40V (10S LiPo)	22x12	33%	2165	6.6	263.5	2766	8.2	0.63	181.3	49°C
		35%	2409	7.4	297.3	2909	8.1	0.70	212.5	
		37%	2656	8.3	334.6	3050	7.9	0.77	245.9	
		39%	2910	9.4	375.6	3190	7.7	0.84	281.9	
		42%	3309	11.1	445.3	3401	7.4	0.96	342.1	
		45%	3739	13.1	525.9	3616	7.1	1.09	411.1	
		48%	4205	15.4	618.4	3835	6.8	1.22	490.5	
		51%	4710	18.1	723.6	4057	6.5	1.37	581.5	
		54%	5256	21.0	841.8	4278	6.2	1.53	684.9	
		57%	5840	24.3	973.2	4499	6.0	1.70	801.3	
		60%	6460	27.9	1118.0	4716	5.8	1.89	931.0	
		63%	7111	31.9	1276.6	4930	5.6	2.08	1073.9	
		66%	7789	36.2	1449.7	5140	5.4	2.29	1230.0	
		69%	8487	40.9	1638.0	5349	5.2	2.50	1399.2	
		72%	9197	46.0	1842.1	5558	5.0	2.72	1580.9	
		75%	9912	51.4	2061.7	5768	4.8	2.94	1774.4	
		78%	10625	57.3	2295.4	5978	4.6	3.16	1978.1	
		81%	11326	63.4	2539.9	6186	4.5	3.38	2189.3	
		84%	12010	69.6	2790.2	6386	4.3	3.59	2404.1	
		87%	12669	75.8	3039.8	6574	4.2	3.80	2617.5	
90%	13298	81.9	3281.3	6742	4.1	4.00	2823.6			
100%	15041	97.7	3916.2	7074	3.8	4.54	3365.0			

*以上数据为好盈实验室于室温 25°C、海平面高度，变化油门输入调节测得，电机温度为65%油门运行10分钟数据，仅供参考。

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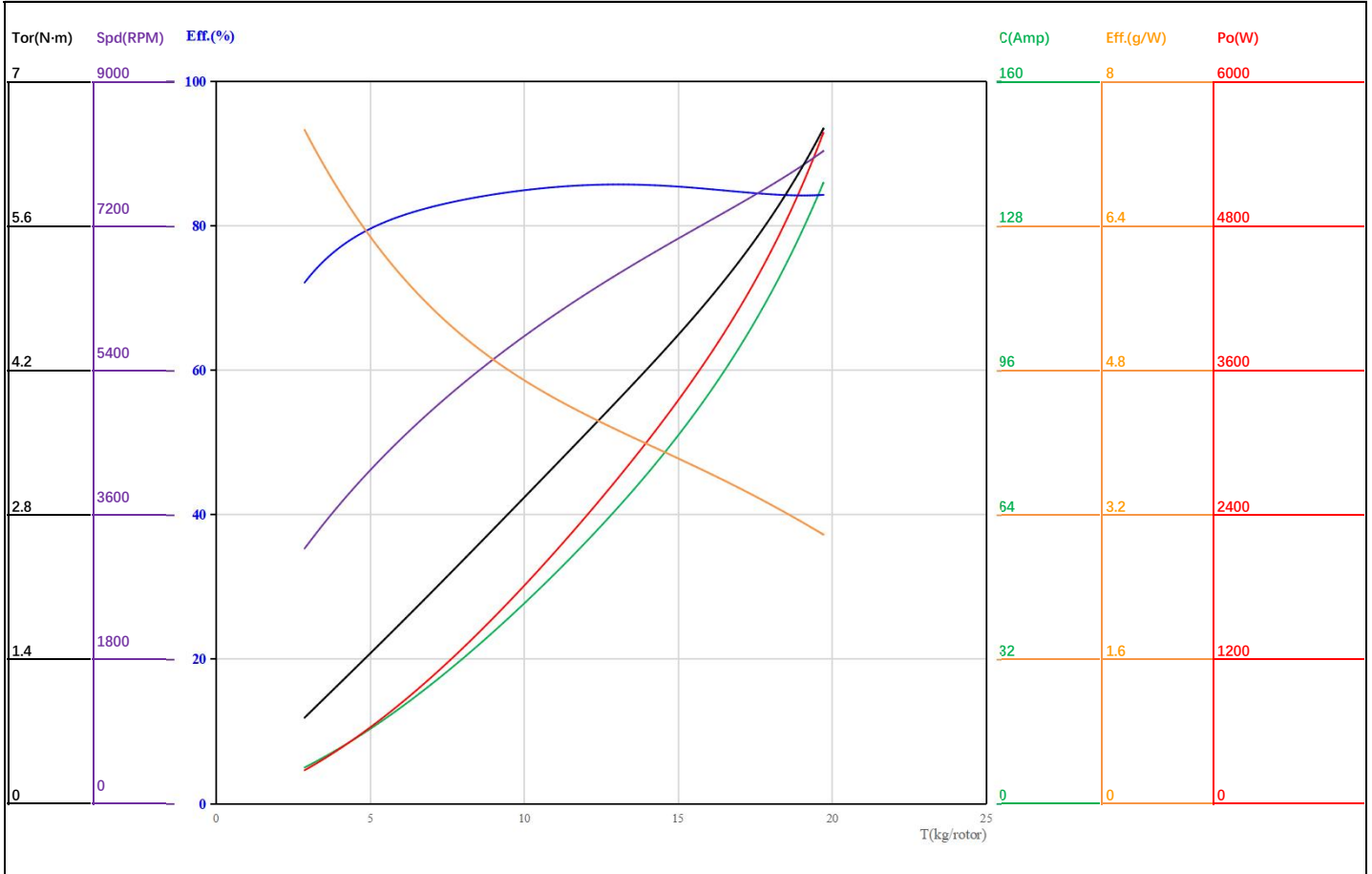
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44V (12S LiPo)	22x12	33%	2516	7.2	318.7	2984	7.9	0.73	226.8	80°C 4min50S
		35%	2770	8.2	360.2	3129	7.7	0.80	261.9	
		37%	3062	9.3	409.5	3286	7.5	0.88	304.3	
		39%	3383	10.6	465.9	3451	7.3	0.98	353.2	
		42%	3904	12.8	562.5	3703	6.9	1.13	438.0	
		45%	4461	15.3	672.4	3952	6.6	1.29	535.0	
		48%	5043	18.0	794.8	4194	6.3	1.47	643.4	
		51%	5646	21.1	929.5	4429	6.1	1.64	762.8	
		54%	6269	24.5	1077.1	4659	5.8	1.83	893.6	
		57%	6917	28.1	1238.9	4885	5.6	2.03	1036.9	
		60%	7592	32.2	1416.7	5110	5.4	2.23	1194.3	
		63%	8302	36.6	1612.8	5336	5.1	2.45	1367.8	
		66%	9050	41.5	1829.7	5565	4.9	2.68	1559.5	
		69%	9840	47.0	2069.7	5797	4.8	2.92	1771.1	
		72%	10675	53.0	2334.7	6031	4.6	3.17	2003.4	
		75%	11550	59.6	2625.7	6263	4.4	3.44	2256.5	
		78%	12459	66.8	2942.2	6491	4.2	3.72	2528.8	
		81%	13389	74.5	3282.2	6709	4.1	4.01	2817.7	
		84%	14321	82.6	3640.8	6913	3.9	4.31	3119.1	
		87%	15225	91.0	4009.2	7101	3.8	4.61	3427.2	
90%	16065	99.3	4372.6	7270	3.7	4.90	3733.0			
100%	17692	116.9	5149.5	7609	3.4	5.54	4413.6			

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48V (12S LiPo)	22x12	33%	2947	8.3	397.4	3219	7.4	0.86	288.4	80°C 1min25S
		35%	3274	9.5	454.3	3384	7.2	0.95	337.1	
		37%	3631	10.8	519.0	3555	7.0	1.06	392.9	
		39%	4010	12.3	591.4	3731	6.8	1.17	455.6	
		42%	4615	14.8	713.6	3996	6.5	1.34	562.0	
		45%	5254	17.7	852.0	4259	6.2	1.53	682.7	
		48%	5923	20.9	1006.4	4517	5.9	1.73	817.9	
		51%	6621	24.5	1177.5	4771	5.6	1.94	968.1	
		54%	7349	28.4	1366.4	5021	5.4	2.16	1134.3	
		57%	8112	32.8	1574.6	5268	5.2	2.39	1318.1	
		60%	8913	37.5	1804.0	5514	4.9	2.63	1521.0	
		63%	9757	42.8	2056.7	5758	4.7	2.89	1744.7	
		66%	10645	48.6	2334.9	6002	4.6	3.17	1990.7	
		69%	11578	55.0	2640.9	6245	4.4	3.46	2259.7	
		72%	12552	61.9	2977.0	6485	4.2	3.76	2552.5	
		75%	13561	69.6	3346.2	6722	4.1	4.08	2869.1	
		78%	14591	78.1	3751.4	6954	3.9	4.41	3210.1	
		81%	15623	87.3	4194.7	7179	3.7	4.76	3576.4	
		84%	16630	97.3	4674.9	7398	3.6	5.12	3968.0	
		87%	17577	107.8	5182.6	7608	3.4	5.50	4380.6	
90%	18419	118.4	5692.3	7804	3.2	5.87	4798.6			
100%	19711	137.6	6611.0	8134	3.0	6.54	5573.9			

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