



Xmotor Multi-Rotor		XM7010MR 6.5 TURN	XM7010MR 7.5 TURN
RPM/V(KV值)	(KV)	380	330
Weight w/o wires(重量)	(g)	270	270
Diameter(直径)	(mm)	70	70
Length(长度)	(mm)	35	35
Diameter of Shaft(轴径)	(mm)	4.0, 8.0	4.0, 8.0
Mounting holes pitch(安装孔距)	(mm)	30/30	30/30
Slots,Poles(极数)		24, 28	24, 28
Idle Current(空载电流)	(Io) @10V(A)	1.3	1.1
Resistance(内阻)	(Ri)(mOhm)	44	53
Cruising power(巡航功率)	(W)[8 mins]	658	608
Bursts current(最大电流)	(A)[15s]	54	50
Peak power(峰值功率)	(W)[15s]	1196	1105
Input wire(输入线)		16AWG, 800mm	16AWG, 800mm
Recommended ESC(推荐调速器)		XC6018BA MR Firmware	XC6018BA MR Firmware
Setup 1(配置1)	(No. of Cell, Prop.)	6S, 18x5, 20x6	6S, 20x6, 22x7
Weight of quad-copter(4轴重量)	(kg)	7.3	6.8
Weight of hex-copter(六轴重量)	(kg)	11.0	10.1

Motor @ Optimum Efficiency

最佳效率

Current(电流):	35.79A
Voltage(电压):	21.62V
Revolutions(转速):	7196rpm
Electric Power(输入功率):	774W
Mech. Power(输出功率):	667.8W
Efficiency(效率):	86.3%

① el.Power [in 5W]

②Efficiency [%]

③max. Revolutions [in 100rpm]

④waste Power[W]

⑤Motor Case Temp. [°C]

Motor Case Temp. overlimit [°C]

Motor Characteristics

Propeller: MRP 18×5MR

22.2V (6S Lipo)							
Thrust	Ampere	Watt	g/W	Thrust	Ampere	Watt	g/W
拉力	电流	功率	效率	拉力	电流	功率	效率
Propeller: MRP 18×5				Propeller: MRP 20×6			
0.5kg	2.4	53.3	9.4	0.5kg	2.2	48.8	10.2
1kg	5.9	131.0	7.6	1kg	5.1	113.2	8.8
1.5kg	9.5	210.9	7.1	1.5kg	8.1	179.8	8.3
2kg	14.6	324.1	6.2	2kg	12.6	279.7	7.2
2.5kg	18.6	412.92	6.1	2.5kg	17.7	392.9	6.4
3kg	24.2	537.24	5.6	3kg	22.5	499.5	6.0
3.5kg	29.5	654.9	5.3	3.5kg	27.4	608.28	5.8
3.79kg	33.2	737.04	5.1	4kg	34.6	768.12	5.2
Propeller: MRP 22×7				Propeller: MRP 24×8			
0.5kg	1.9	42.2	11.8	0.5kg	1.8	40.0	12.5
1kg	4.8	106.6	9.4	1kg	4.5	99.9	10.0
1.5kg	8.2	182.0	8.2	1.5kg	7.9	175.4	8.6
2kg	12.9	286.4	7.0	2kg	11.9	264.2	7.6
2.5kg	16.3	361.86	6.9	2.5kg	15.6	346.3	7.2
3kg	22.6	501.72	6	3kg	22.3	495.1	6.1
3.5kg	27.7	614.94	5.7	3.5kg	28.1	623.82	5.6
4kg	34.6	768.12	5.2	4kg	35.9	796.98	5
4.5kg	42.6	945.72	4.8	4.46kg	43.6	967.92	4.6

Motor @ Optimum Efficiency

最佳效率

Current(电流):	28.86A
Voltage(电压):	21.74V
Revolutions(转速):	6311rpm
Electric Power(输入功率):	627.2W
Mech. Power(输出功率):	543.5W
Efficiency(效率):	86.7%

① el.Power [in 5W]

②Efficiency [%]

③max. Revolutions [in 100rpm]

④waste Power[W]

⑤Motor Case Temp. [°C]

Motor Case Temp. overlimit [°C]

Motor Characteristics

Propeller: MRP 18×5MR

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