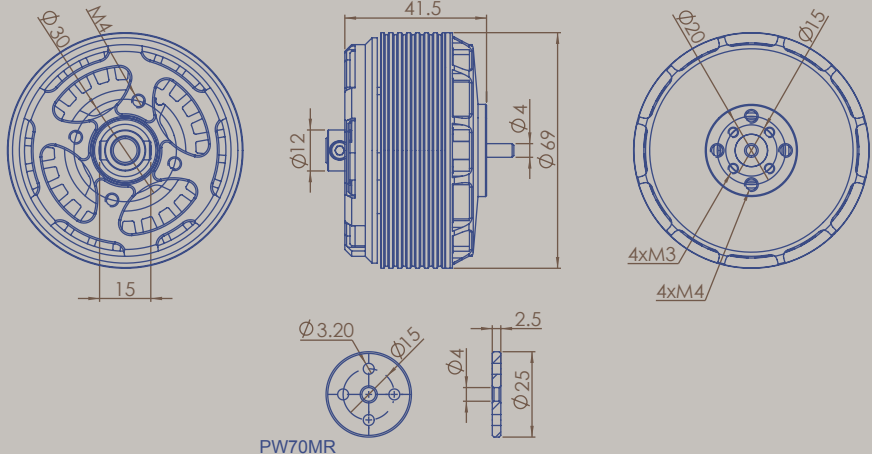


Dimensions

XM7015HD-V3



Specification

| Heavy duty series for Multi-copter | XM7015HD-5 | XM7015HD-11 |
|---|---|--------------------------------|
| Item NO. (商品编码) | 51450 | 51451 |
| RPM/V (KV) (KV值) | 330 | 150 High Voltage |
| Weight w/o wires(g) (重量) | 350 | 350 |
| Diameter(mm) (直径) | 69 | 69 |
| Length(mm) (长度) | 39.5 | 39.5 |
| Diameter of Shaft(mm) (轴径) | IN:8.0, Out:4.0 | IN:8.0, Out:4.0 |
| Propeller mounting holes [Pitch, Size] (mm) (桨安装孔距) | (A)15mm, 4-M3 (B)20mm, 4-M4 | (A)15mm, 4-M3 (B)20mm, 4-M4 |
| Motor mounting holes [Pitch, Size] (mm) (马达安装孔距) | 30mm, 4-M4 | 30mm, 4-M4 |
| Slots,Poles (极数) | 24, 28 | 24, 28 |
| Idle Current(Io) @10V(A) (空载电流) | 1.8 | 0.6 |
| Resistance(Ri)(mOhm) (电阻) | 42 | 98 |
| Nominal voltage(V) (额定电压) | 22.2V, 6S Lipo | 30-51V, 10-12S Lipo |
| Cruising power(W)[30 mins] (巡航功率) | 810 | 1020 |
| Bursts current(A)[30s] (最大电流) | 67 | 42 |
| Peak power(W)[30s] (峰值功率) | 1480 | 1850 |
| Input Wire (线规格) | 16AWG, 800mm | 16AWG, 800mm |
| Recommended ESC (调速器) | PCU 60 | PCU 80HV |
| Propeller (螺旋桨配置) | MRP 20" | MRP 20-22" |
| Propeller adapters (螺旋桨适配器) | Yes | Yes |
| Centrifugal fan (离心式风扇设计) | Yes | Yes |
| Dynamic balanced rotor (转子动平衡) | Yes | Yes |
| Heavy duty design (大负载设计) | Yes | Yes |
| Water & dust proof (防水防尘) | Yes (IP34) | Yes (IP34) |
| Maintenance free (免维护) | Yes | Yes |
| Weight of Quad-copter(kg)(4轴重量) | 9.0 | 11.3 |
| Weight of Hex-copter(kg)(6轴重量) | 13.5 | 17.0 |
| Weight of Oct-copter(kg) (8轴重量) | 18.1 | 22.7 |
| Memo (备注) | For business aerial photography and agriculture spray | |

XM7015HD (330KV)

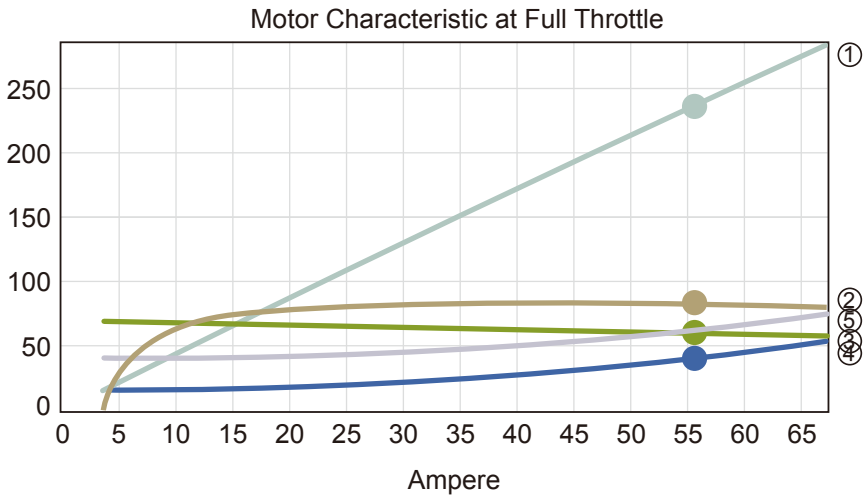
Motor @ Optimum Efficiency

最佳效率

| | |
|-----------------------|---------|
| Current(电流): | 38.52A |
| Voltage(电压): | 21.63V |
| Revolutions(转速): | 6327rpm |
| Electric Power(输入功率): | 833.1W |
| Mech. Power(输出功率): | 698.7W |
| Efficiency(效率): | 83.9% |

- ① el. Power [in 5W]
- ② Efficiency [%]
- ③ max. Revolutions [in 100rpm]
- ④ waste Power [W]
- ⑤ Motor Case Temp. [°C]

Propeller Dualsky MRP 20X6



| Voltage (V) | Propeller (RPM) | Throttle (%) | Current (DC) (A) | Volage (DC) (V) | el. Power (W) | Efficiency (%) | Thrust (g) | Spec. Thrust (g/W) |
|-----------------|-----------------|--------------|------------------|-----------------|---------------|----------------|------------|--------------------|
| 22.2V (6S LIPO) | 2000 | 30 | 2.2 | 22.2 | 49.5 | 75 | 641 | 13.0 |
| | 2400 | 36 | 3.7 | 22.2 | 81.2 | 79 | 923 | 11.4 |
| | 2800 | 43 | 5.7 | 22.1 | 125.1 | 81.5 | 1257 | 10.0 |
| | 3200 | 49 | 8.3 | 22.1 | 183.4 | 82.9 | 1641 | 8.9 |
| | 3600 | 56 | 11.8 | 22.1 | 258.6 | 83.7 | 2077 | 8.0 |
| | 4000 | 63 | 16.1 | 22 | 353.1 | 84.1 | 2564 | 7.3 |
| | 4400 | 70 | 21.5 | 21.9 | 469.2 | 84.3 | 3102 | 6.6 |
| | 4800 | 77 | 28 | 21.8 | 609.5 | 84.2 | 3692 | 6.1 |
| | 5200 | 85 | 35.9 | 21.7 | 776.6 | 84 | 4333 | 5.6 |
| | 5600 | 92 | 45.2 | 21.6 | 973.1 | 83.8 | 5026 | 5.2 |
| | 5970 | 100 | 56.1 | 21.5 | 1199 | 82.7 | 5712 | 4.8 |

XM7015HD (150KV High Voltage)

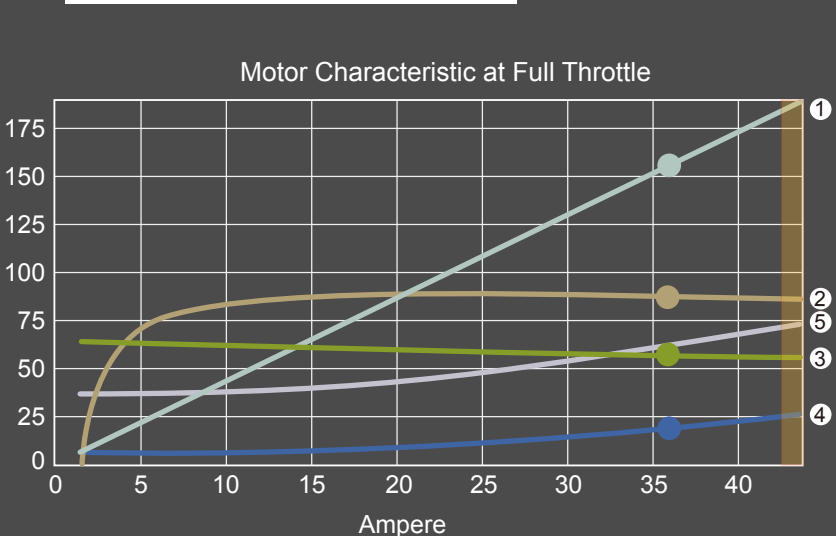
Motor @ Optimum Efficiency

最佳效率

| | |
|-----------------------|---------|
| Current(电流): | 22.95A |
| Voltage(电压): | 43.77V |
| Revolutions(转速): | 5992rpm |
| Electric Power(输入功率): | 1004.4W |
| Mech. Power(输出功率): | 891.2W |
| Efficiency(效率): | 88.7% |

- ① el. Power [in 10W]
- ② Efficiency [%]
- ③ max. Revolutions [in 100rpm]
- ④ waste Power [W]
- ⑤ Motor Case Temp. [°C]

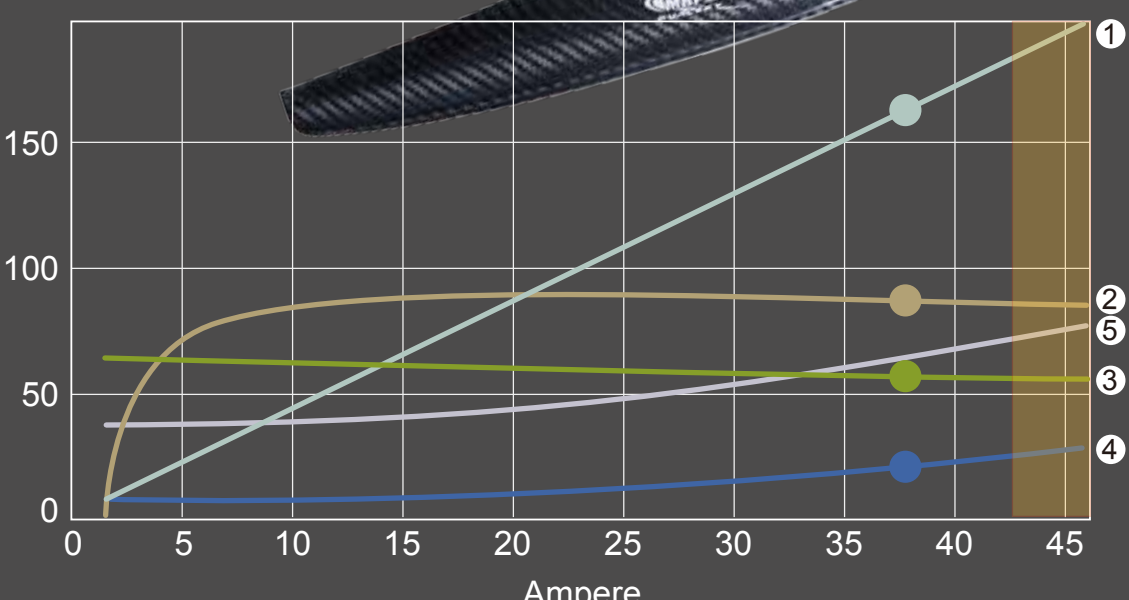
Propeller Dualsky MRP 22X7



| Voltage (V) | Propeller (RPM) | Throttle (%) | Current (DC) (A) | Volage (DC) (V) | el. Power (W) | Efficiency (%) | Thrust (g) | Spec. Thrust (g/W) |
|------------------|-----------------|--------------|------------------|-----------------|---------------|----------------|------------|--------------------|
| 44.4V (12S LIPO) | 2000 | 32 | 1.6 | 44.4 | 71 | 83.9 | 930 | 13.2 |
| | 2400 | 39 | 2.7 | 44.3 | 118 | 86.4 | 1339 | 11.3 |
| | 2800 | 46 | 4.2 | 44.3 | 185 | 87.8 | 1822 | 9.8 |
| | 3200 | 53 | 6.2 | 44.2 | 274 | 88.5 | 2380 | 8.7 |
| | 3600 | 60 | 8.8 | 44.2 | 389 | 88.8 | 3012 | 7.7 |
| | 4000 | 67 | 12.1 | 44.1 | 533 | 88.9 | 3718 | 7.0 |
| | 4400 | 74 | 16.2 | 44 | 710 | 88.8 | 4499 | 6.3 |
| | 4800 | 82 | 21.1 | 43.9 | 924 | 88.6 | 5354 | 5.8 |
| | 5200 | 90 | 27 | 43.7 | 1179 | 88.3 | 6283 | 5.3 |
| | 5600 | 98 | 34 | 43.5 | 1478 | 87.9 | 7288 | 4.9 |
| | 5715 | 100 | 36.5 | 43.5 | 1584 | 87.5 | 7591 | 4.8 |

Propeller Dualsky MRP 24CF

Motor Characteristic at Full Throttle



| Voltage (V) | Propeller (RPM) | Throttle (%) | Current (DC) (A) | Volage (DC) (V) | el. Power (W) | Efficiency (%) | Thrust (g) | Spec. Thrust (g/W) |
|------------------|-----------------|--------------|------------------|-----------------|---------------|----------------|------------|--------------------|
| 44.4V (12S LIPO) | 2000 | 33 | 1.7 | 44.3 | 77 | 85.8 | 1158 | 15.0 |
| | 2400 | 40 | 3.0 | 44.3 | 132 | 87.4 | 1667 | 12.6 |
| | 2800 | 47 | 4.7 | 44.3 | 210 | 88.1 | 2268 | 10.8 |
| | 3200 | 54 | 7.1 | 44.2 | 312 | 88.3 | 2962 | 9.5 |
| | 3600 | 61 | 10.0 | 44.1 | 443 | 88.2 | 3749 | 8.5 |
| | 4000 | 69 | 13.9 | 44 | 610 | 87.9 | 4629 | 7.6 |
| | 4400 | 77 | 18.6 | 43.8 | 814 | 87.5 | 5601 | 6.9 |
| | 4800 | 85 | 24.3 | 43.7 | 1063 | 87.1 | 6666 | 6.3 |
| | 5200 | 93 | 31.3 | 43.5 | 1361 | 86.5 | 7823 | 5.7 |
| | 5523 | 100 | 38.1 | 43.2 | 1646 | 85.7 | 8824 | 5.4 |