



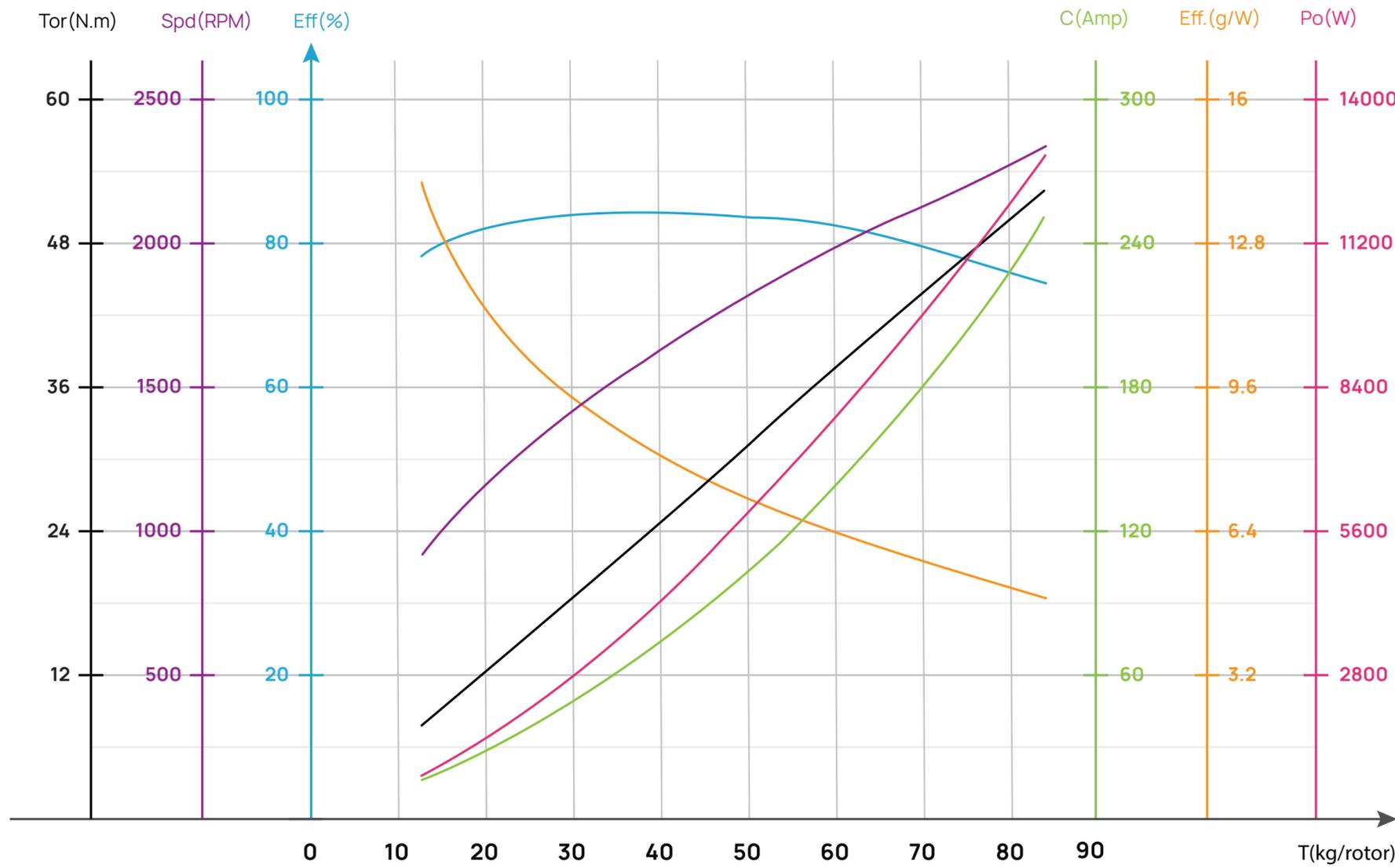
# LOAD PERFORMANCE PARAMETERS

## 负载性能参数

以下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，仅供参考。

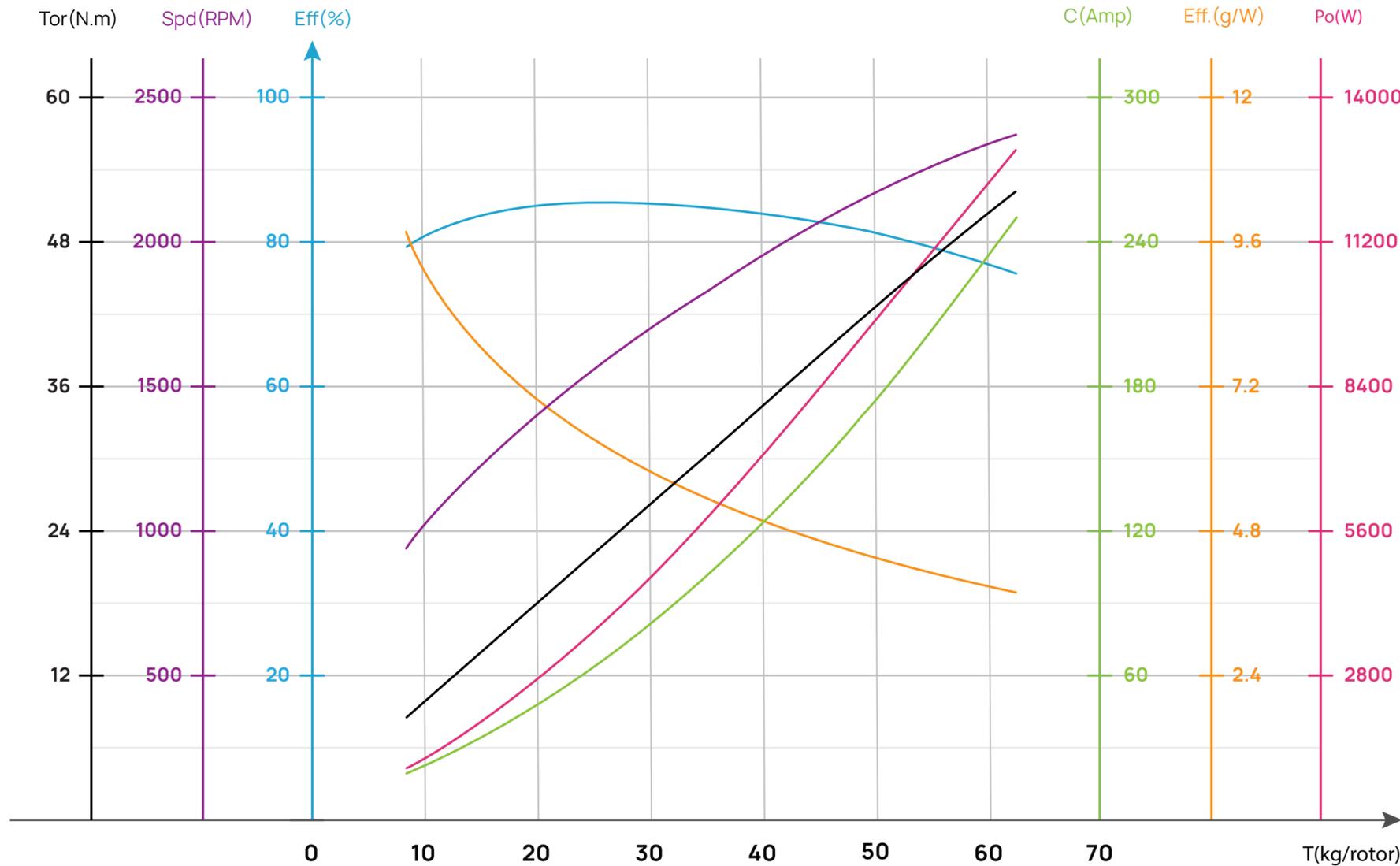
The below data was measured by HOBBYWING Laboratory at room temperature 25°C, at sea level,  
with varying throttle input, for reference only.

# H15MD-69V & MSC 64x23 (上轴/Upper Rotor)



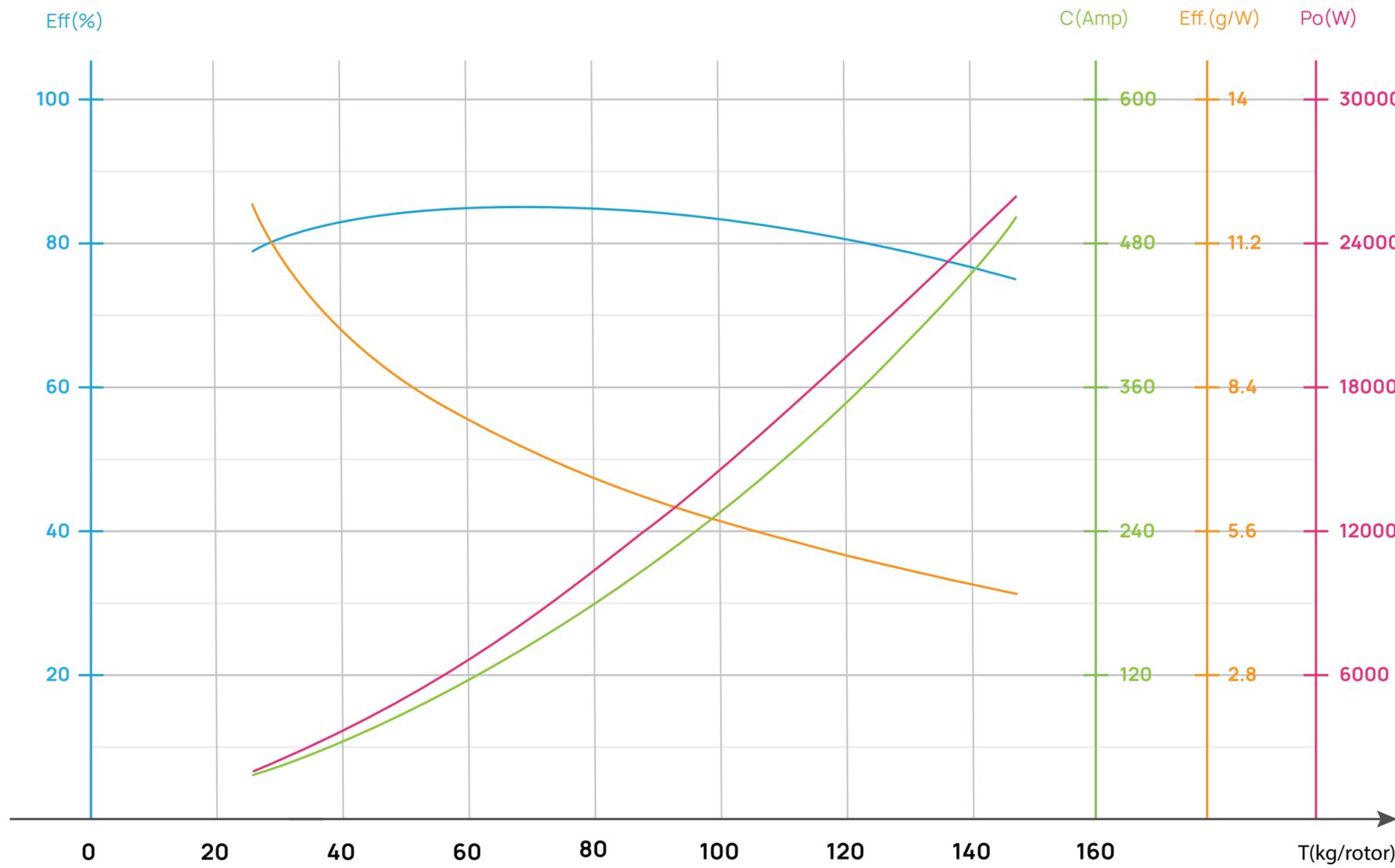
| Voltage<br>工作电压 (V) | Propeller<br>螺旋桨 | Throttle<br>油门 (%) | Thrust<br>拉力 (g) | Current<br>电流 (A) | Power Input<br>输入功率 (W) | Speed<br>转速 (RPM) | Efficiency<br>力效 (g/W) | Torque<br>扭矩 (N·m) | Power Output<br>输出功率 (W) | Temperature<br>电机温度 (°C) |
|---------------------|------------------|--------------------|------------------|-------------------|-------------------------|-------------------|------------------------|--------------------|--------------------------|--------------------------|
| 69V<br>(18S LiPo)   | MSC 64x23        | 35%                | 14854            | 16.6              | 1143.4                  | 995               | 13.0                   | 8.80               | 917.2                    | /                        |
|                     |                  | 37%                | 16711            | 19.7              | 1360.4                  | 1057              | 12.3                   | 9.98               | 1105.1                   |                          |
|                     |                  | 39%                | 18722            | 23.3              | 1607.3                  | 1121              | 11.6                   | 11.25              | 1320.6                   |                          |
|                     |                  | 41%                | 20869            | 27.3              | 1884.9                  | 1185              | 11.1                   | 12.59              | 1562.5                   |                          |
|                     |                  | 43%                | 23140            | 31.8              | 2194.3                  | 1248              | 10.5                   | 14.01              | 1830.3                   |                          |
|                     |                  | 45%                | 25525            | 36.7              | 2536.8                  | 1311              | 10.1                   | 15.49              | 2126.4                   |                          |
|                     |                  | 47%                | 28017            | 42.2              | 2914.2                  | 1373              | 9.6                    | 17.05              | 2450.7                   |                          |
|                     |                  | 49%                | 30610            | 48.2              | 3328.3                  | 1434              | 9.2                    | 18.67              | 2804.2                   |                          |
|                     |                  | 51%                | 33303            | 54.8              | 3781.3                  | 1495              | 8.8                    | 20.38              | 3190.3                   |                          |
|                     |                  | 53%                | 36092            | 61.9              | 4275.1                  | 1556              | 8.4                    | 22.16              | 3610.6                   |                          |
|                     |                  | 55%                | 38975            | 69.7              | 4811.9                  | 1616              | 8.1                    | 24.02              | 4064.1                   |                          |
|                     |                  | 57%                | 41947            | 78.1              | 5393.8                  | 1676              | 7.8                    | 25.95              | 4553.8                   |                          |
|                     |                  | 59%                | 45003            | 87.2              | 6022.6                  | 1735              | 7.5                    | 27.95              | 5077.4                   |                          |
|                     |                  | 61%                | 48137            | 97.0              | 6699.6                  | 1794              | 7.2                    | 30.01              | 5636.8                   |                          |
|                     |                  | 63%                | 51336            | 107.5             | 7425.6                  | 1852              | 6.9                    | 32.11              | 6227.5                   |                          |
|                     |                  | 65%                | 54587            | 118.7             | 8200.9                  | 1908              | 6.7                    | 34.25              | 6842.9                   |                          |
|                     |                  | 67%                | 57870            | 130.7             | 9024.2                  | 1962              | 6.4                    | 36.40              | 7478.2                   |                          |
| 69%                 | 61161            | 143.2              | 9893.0           | 2014              | 6.2                     | 38.54             | 8127.3                 |                    |                          |                          |
| 71%                 | 64429            | 156.4              | 10802.4          | 2064              | 6.0                     | 40.64             | 8783.7                 |                    |                          |                          |
| 80%                 | 77657            | 218.1              | 15065.8          | 2255              | 5.2                     | 48.94             | 11555.7                |                    |                          |                          |
| 85%                 | 82462            | 244.8              | 16909.0          | 2330              | 4.9                     | 51.92             | 12666.7                |                    |                          |                          |
| 100%                | 83714            | 252.2              | 17422.0          | 2351              | 4.8                     | 52.70             | 12973.5                |                    |                          |                          |

# H15MD-69V & MSC 64x23 (下轴/Lower Rotor)



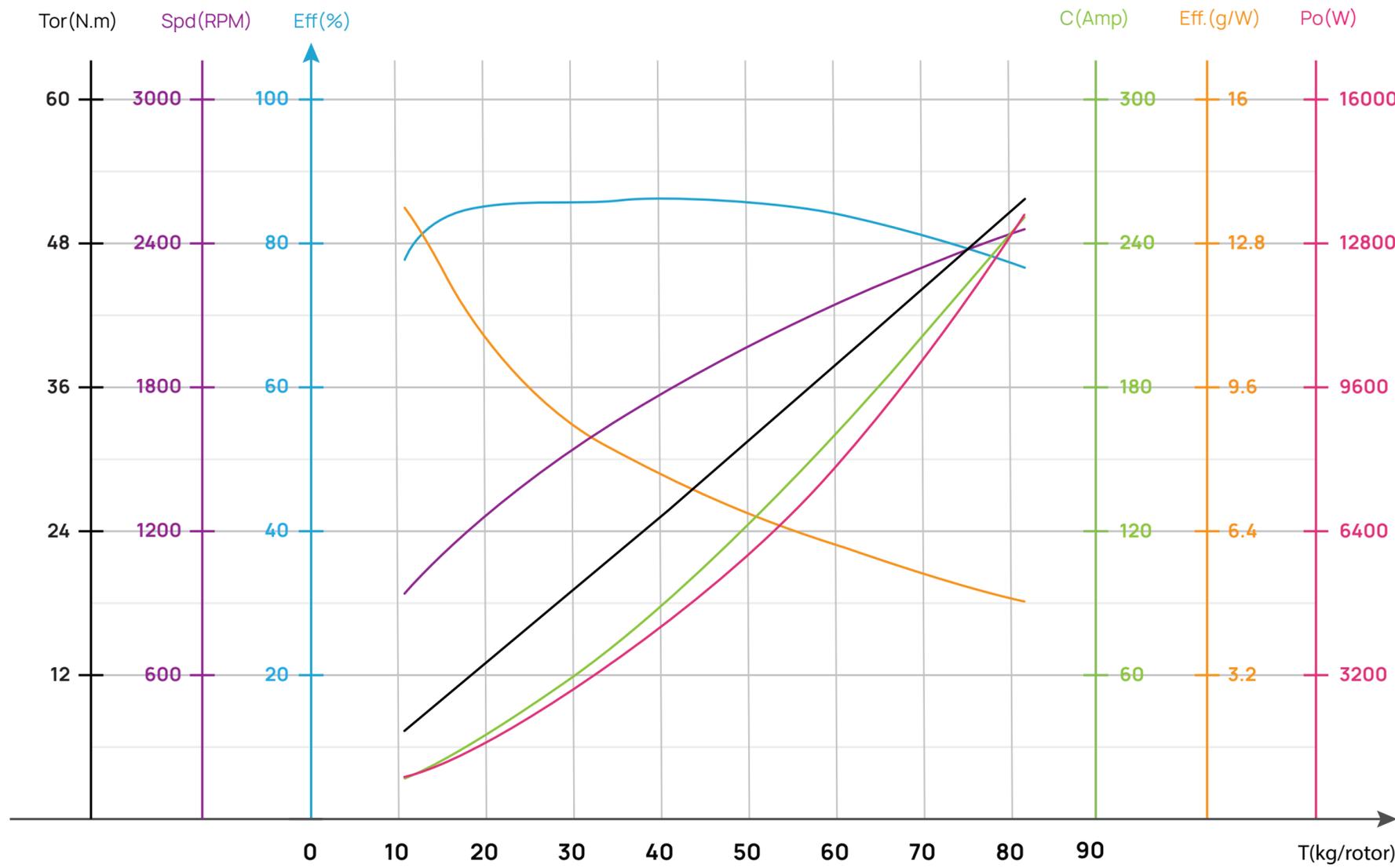
| Voltage<br>工作电压 (V) | Propeller<br>螺旋桨 | Throttle<br>油门 (%) | Thrust<br>拉力 (g) | Current<br>电流 (A) | Power Input<br>输入功率 (W) | Speed<br>转速 (RPM) | Efficiency<br>力效 (g/W) | Torque<br>扭矩 (N·m) | Power Output<br>输出功率 (W) | Temperature<br>电机温度 (°C) |
|---------------------|------------------|--------------------|------------------|-------------------|-------------------------|-------------------|------------------------|--------------------|--------------------------|--------------------------|
| 69V<br>(18S LiPo)   | MSC 64x23        | 35%                | 10337            | 16.6              | 1146.0                  | 997               | 9.0                    | 8.86               | 925.0                    | /                        |
|                     |                  | 37%                | 11694            | 19.7              | 1362.1                  | 1060              | 8.6                    | 10.03              | 1113.5                   |                          |
|                     |                  | 39%                | 13171            | 23.3              | 1607.8                  | 1124              | 8.2                    | 11.29              | 1328.8                   |                          |
|                     |                  | 41%                | 14749            | 27.3              | 1882.9                  | 1188              | 7.8                    | 12.62              | 1570.2                   |                          |
|                     |                  | 43%                | 16414            | 31.7              | 2187.7                  | 1253              | 7.5                    | 14.02              | 1839.5                   |                          |
|                     |                  | 45%                | 18157            | 36.5              | 2523.2                  | 1316              | 7.2                    | 15.48              | 2132.9                   |                          |
|                     |                  | 47%                | 19969            | 41.9              | 2890.3                  | 1379              | 6.9                    | 17.00              | 2454.0                   |                          |
|                     |                  | 49%                | 21846            | 47.7              | 3290.6                  | 1441              | 6.6                    | 18.57              | 2802.0                   |                          |
|                     |                  | 51%                | 23784            | 54.0              | 3726.1                  | 1502              | 6.4                    | 20.20              | 3177.5                   |                          |
|                     |                  | 53%                | 25783            | 60.8              | 4198.7                  | 1563              | 6.1                    | 21.90              | 3583.6                   |                          |
|                     |                  | 55%                | 27840            | 68.2              | 4710.8                  | 1623              | 5.9                    | 23.65              | 4019.0                   |                          |
|                     |                  | 57%                | 29956            | 76.2              | 5264.8                  | 1684              | 5.7                    | 25.46              | 4489.2                   |                          |
|                     |                  | 59%                | 32128            | 84.9              | 5862.8                  | 1744              | 5.5                    | 27.32              | 4989.8                   |                          |
|                     |                  | 61%                | 34354            | 94.2              | 6506.7                  | 1804              | 5.3                    | 29.24              | 5523.3                   |                          |
|                     |                  | 63%                | 36630            | 104.2             | 7197.8                  | 1863              | 5.1                    | 31.20              | 6085.9                   |                          |
|                     |                  | 65%                | 38951            | 114.9             | 7936.4                  | 1923              | 4.9                    | 33.19              | 6682.4                   |                          |
|                     |                  | 67%                | 41306            | 126.3             | 8721.6                  | 1981              | 4.7                    | 35.19              | 7300.3                   |                          |
| 69%                 | 43686            | 138.3              | 9550.6           | 2038              | 4.6                     | 37.20             | 7939.1                 |                    |                          |                          |
| 71%                 | 46072            | 150.9              | 10418.7          | 2093              | 4.4                     | 39.20             | 8590.2                 |                    |                          |                          |
| 80%                 | 56238            | 210.2              | 14520.2          | 2293              | 3.9                     | 47.42             | 11385.1                |                    |                          |                          |
| 85%                 | 60587            | 238.5              | 16471.7          | 2358              | 3.7                     | 50.87             | 12560.7                |                    |                          |                          |
| 100%                | 62282            | 249.9              | 17263.6          | 2379              | 3.6                     | 52.23             | 13011.9                |                    |                          |                          |

# H15MD-69V & MSC 64x23 (共轴/Coaxial Load)



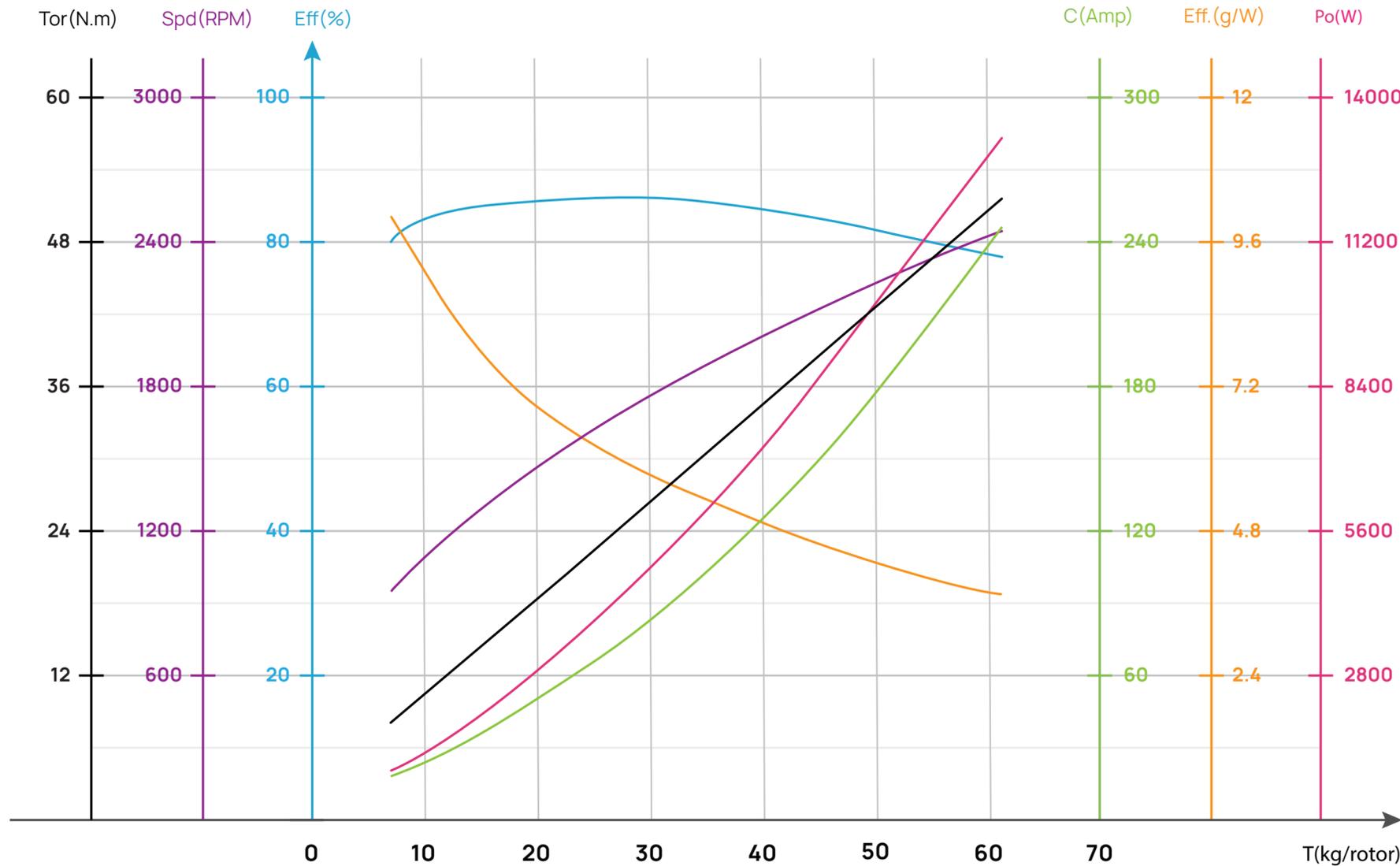
| Voltage<br>工作电压 (V) | Propeller<br>螺旋桨 | Throttle<br>油门 (%) | Thrust<br>拉力 (g) | Current<br>电流 (A) | Power Input<br>输入功率 (W) | Efficiency<br>效率 (%) | Efficiency<br>力效 (g/W) | Power Output<br>输出功率 (W) | Temperature<br>电机温度 (°C) |
|---------------------|------------------|--------------------|------------------|-------------------|-------------------------|----------------------|------------------------|--------------------------|--------------------------|
| 69V<br>(18S LiPo)   | MSC 64x23        | 35%                | 25191            | 33.2              | 2289.4                  | 80.46                | 11.0                   | 1842.1                   | /                        |
|                     |                  | 37%                | 28405            | 39.4              | 2722.5                  | 81.49                | 10.4                   | 2218.6                   |                          |
|                     |                  | 39%                | 31893            | 46.6              | 3215.1                  | 82.40                | 9.9                    | 2649.2                   |                          |
|                     |                  | 41%                | 35618            | 54.6              | 3767.8                  | 83.16                | 9.5                    | 3133.3                   |                          |
|                     |                  | 43%                | 39555            | 63.5              | 4382.0                  | 83.75                | 9.0                    | 3669.9                   |                          |
|                     |                  | 45%                | 43682            | 73.3              | 5060.0                  | 84.20                | 8.6                    | 4260.5                   |                          |
|                     |                  | 47%                | 47985            | 84.1              | 5804.5                  | 84.51                | 8.3                    | 4905.4                   |                          |
|                     |                  | 49%                | 52456            | 95.8              | 6619.0                  | 84.73                | 7.9                    | 5608.3                   |                          |
|                     |                  | 51%                | 57087            | 108.7             | 7507.3                  | 84.86                | 7.6                    | 6370.7                   |                          |
|                     |                  | 53%                | 61875            | 122.7             | 8473.8                  | 84.91                | 7.3                    | 7195.1                   |                          |
|                     |                  | 55%                | 66815            | 137.9             | 9522.8                  | 84.91                | 7.0                    | 8085.8                   |                          |
|                     |                  | 57%                | 71902            | 154.3             | 10658.6                 | 84.85                | 6.7                    | 9043.8                   |                          |
|                     |                  | 59%                | 77131            | 172.1             | 11885.3                 | 84.72                | 6.5                    | 10069.3                  |                          |
|                     |                  | 61%                | 82490            | 191.2             | 13206.2                 | 84.51                | 6.2                    | 11160.6                  |                          |
|                     |                  | 63%                | 87966            | 211.7             | 14623.4                 | 84.21                | 6.0                    | 12314.4                  |                          |
|                     |                  | 65%                | 93538            | 233.7             | 16137.3                 | 83.81                | 5.8                    | 13524.6                  |                          |
|                     |                  | 67%                | 99177            | 256.9             | 17745.8                 | 83.29                | 5.6                    | 14780.5                  |                          |
|                     |                  | 69%                | 104847           | 281.5             | 19443.6                 | 82.64                | 5.4                    | 16068.2                  |                          |
|                     |                  | 71%                | 110501           | 307.3             | 21221.1                 | 81.87                | 5.2                    | 17373.7                  |                          |
|                     |                  | 80%                | 133896           | 428.3             | 29586.1                 | 77.54                | 4.5                    | 22941.0                  |                          |
| 85%                 | 143049           | 483.3              | 33380.6          | 75.58             | 4.3                     | 25229.1              |                        |                          |                          |
| 100%                | 145997           | 502.2              | 34685.5          | 74.93             | 4.2                     | 25989.9              |                        |                          |                          |

# H15MD-69V & MFC 63x24 (上轴/Upper Rotor)



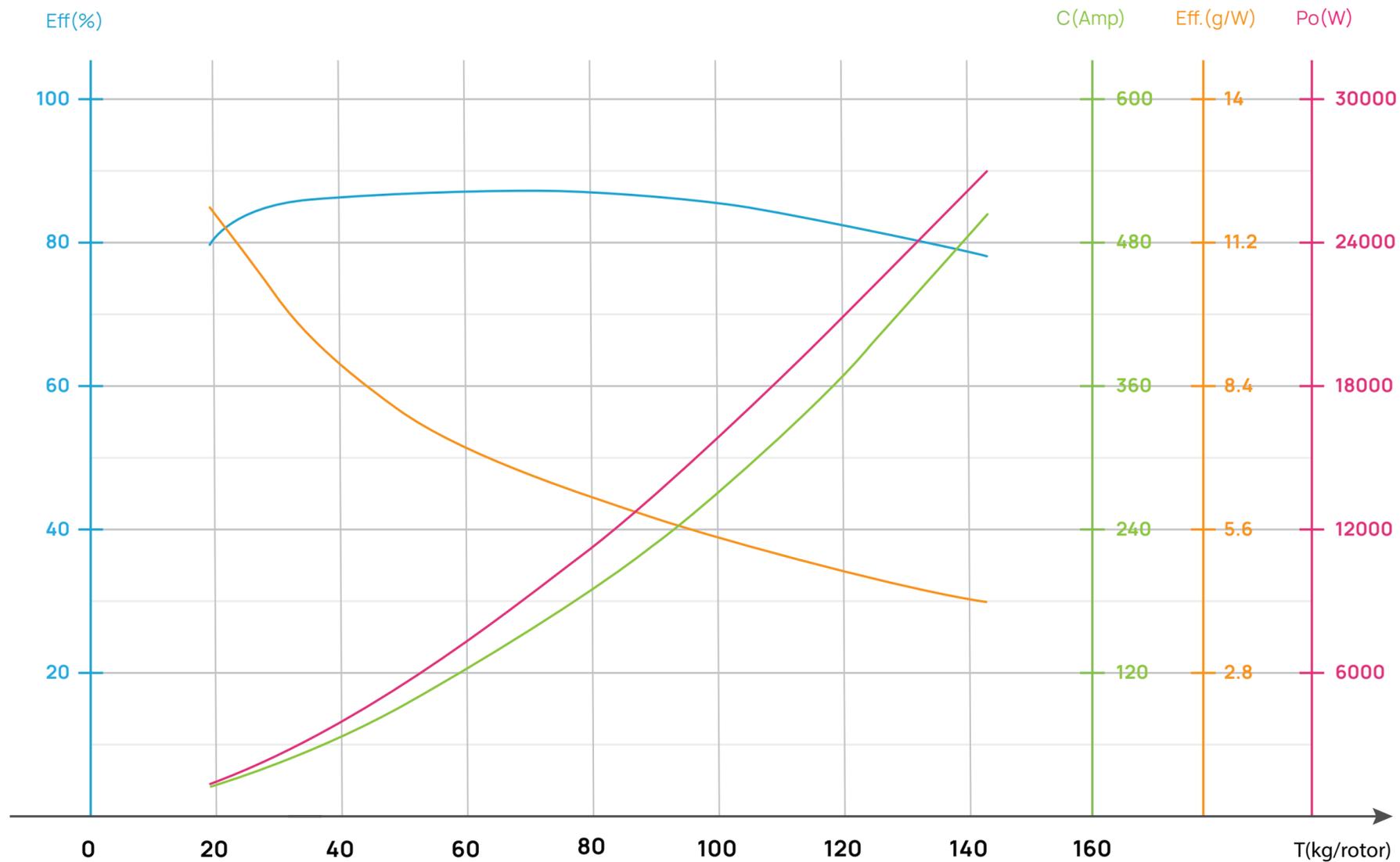
| Voltage<br>工作电压 (V) | Propeller<br>螺旋桨 | Throttle<br>油门 (%) | Thrust<br>拉力 (g) | Current<br>电流 (A) | Power Input<br>输入功率 (W) | Speed<br>转速 (RPM) | Efficiency<br>力效 (g/W) | Torque<br>扭矩 (N·m) | Power Output<br>输出功率 (W) | Temperature<br>电机温度 (°C) |
|---------------------|------------------|--------------------|------------------|-------------------|-------------------------|-------------------|------------------------|--------------------|--------------------------|--------------------------|
| 69V<br>(18S LiPo)   | MFC 63x24        | 33%                | 11285            | 12.1              | 837.2                   | 937               | 13.5                   | 6.80               | 667.2                    | /                        |
|                     |                  | 38%                | 15320            | 18.3              | 1264.9                  | 1094              | 12.1                   | 9.31               | 1066.5                   |                          |
|                     |                  | 40%                | 17144            | 21.6              | 1490.1                  | 1158              | 11.5                   | 10.45              | 1267.1                   |                          |
|                     |                  | 42%                | 19083            | 25.3              | 1747.7                  | 1223              | 10.9                   | 11.67              | 1494.5                   |                          |
|                     |                  | 44%                | 21137            | 29.5              | 2038.6                  | 1288              | 10.4                   | 12.97              | 1749.3                   |                          |
|                     |                  | 46%                | 23305            | 34.2              | 2361.8                  | 1352              | 9.9                    | 14.34              | 2030.1                   |                          |
|                     |                  | 48%                | 25586            | 39.4              | 2719.7                  | 1416              | 9.4                    | 15.78              | 2339.7                   |                          |
|                     |                  | 50%                | 27980            | 45.0              | 3110.7                  | 1480              | 9.0                    | 17.30              | 2681.0                   |                          |
|                     |                  | 52%                | 30485            | 51.2              | 3538.1                  | 1544              | 8.6                    | 18.89              | 3054.0                   |                          |
|                     |                  | 54%                | 33097            | 57.9              | 4000.3                  | 1607              | 8.3                    | 20.55              | 3458.0                   |                          |
|                     |                  | 56%                | 35814            | 65.1              | 4499.8                  | 1670              | 8.0                    | 22.28              | 3896.1                   |                          |
|                     |                  | 58%                | 38629            | 72.9              | 5038.7                  | 1733              | 7.7                    | 24.07              | 4367.9                   |                          |
|                     |                  | 60%                | 41535            | 81.4              | 5620.5                  | 1795              | 7.4                    | 25.93              | 4873.8                   |                          |
|                     |                  | 62%                | 44522            | 90.4              | 6246.4                  | 1858              | 7.1                    | 27.84              | 5416.4                   |                          |
|                     |                  | 64%                | 47578            | 100.2             | 6920.7                  | 1919              | 6.9                    | 29.81              | 5990.1                   |                          |
|                     |                  | 66%                | 50687            | 110.7             | 7646.2                  | 1980              | 6.6                    | 31.82              | 6597.2                   |                          |
|                     |                  | 68%                | 53831            | 121.9             | 8423.5                  | 2040              | 6.4                    | 33.86              | 7232.9                   |                          |
|                     |                  | 70%                | 56987            | 133.9             | 9253.2                  | 2098              | 6.2                    | 35.93              | 7893.3                   |                          |
| 72%                 | 60129            | 146.6              | 10131.4          | 2153              | 5.9                     | 38.00             | 8566.9                 |                    |                          |                          |
| 80%                 | 71866            | 201.3              | 13905.1          | 2343              | 5.2                     | 45.78             | 11231.7                |                    |                          |                          |
| 87%                 | 79308            | 241.4              | 16676.3          | 2446              | 4.8                     | 50.64             | 12970.2                |                    |                          |                          |
| 100%                | 81431            | 253.4              | 17506.7          | 2473              | 4.7                     | 51.98             | 13460.4                |                    |                          |                          |

# H15MD-69V & MFC 63x24 (下轴/Lower Rotor)



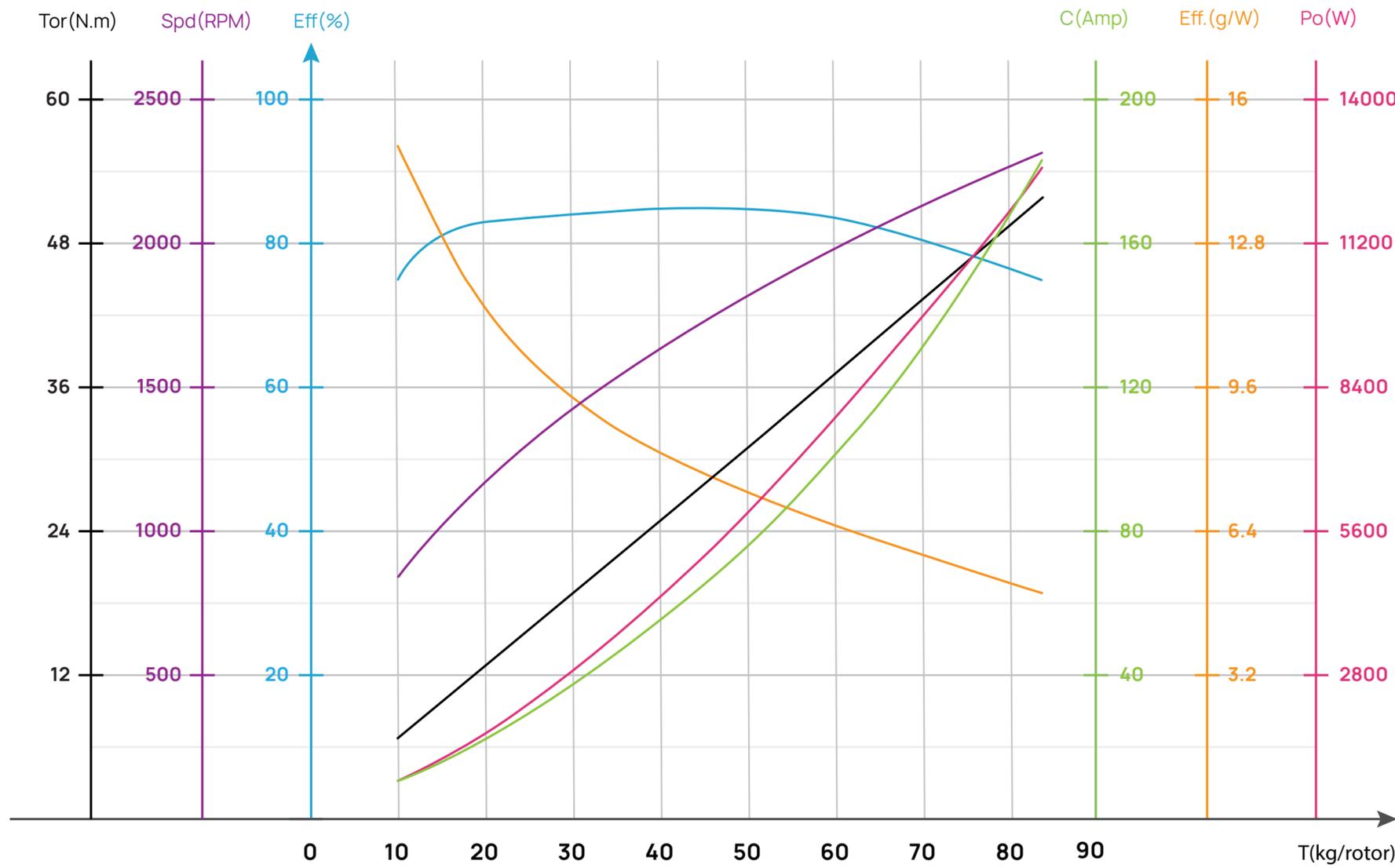
| Voltage<br>工作电压 (V) | Propeller<br>螺旋桨 | Throttle<br>油门 (%) | Thrust<br>拉力 (g) | Current<br>电流 (A) | Power Input<br>输入功率 (W) | Speed<br>转速 (RPM) | Efficiency<br>力效 (g/W) | Torque<br>扭矩 (N·m) | Power Output<br>输出功率 (W) | Temperature<br>电机温度 (°C) |
|---------------------|------------------|--------------------|------------------|-------------------|-------------------------|-------------------|------------------------|--------------------|--------------------------|--------------------------|
| 69V<br>(18S LiPo)   | MFC 63x24        | 33%                | 9043             | 13.3              | 916.7                   | 944               | 9.9                    | 7.54               | 745.3                    | /                        |
|                     |                  | 38%                | 12350            | 20.4              | 1406.5                  | 1101              | 8.8                    | 10.27              | 1184.0                   |                          |
|                     |                  | 40%                | 13789            | 23.9              | 1651.0                  | 1164              | 8.4                    | 11.47              | 1398.0                   |                          |
|                     |                  | 42%                | 15302            | 27.9              | 1925.3                  | 1227              | 7.9                    | 12.74              | 1636.9                   |                          |
|                     |                  | 44%                | 16892            | 32.3              | 2229.9                  | 1291              | 7.6                    | 14.09              | 1904.7                   |                          |
|                     |                  | 46%                | 18563            | 37.1              | 2565.6                  | 1355              | 7.2                    | 15.50              | 2199.2                   |                          |
|                     |                  | 48%                | 20316            | 42.5              | 2934.5                  | 1418              | 6.9                    | 16.98              | 2521.2                   |                          |
|                     |                  | 50%                | 22151            | 48.3              | 3336.6                  | 1482              | 6.6                    | 18.53              | 2875.5                   |                          |
|                     |                  | 52%                | 24067            | 54.6              | 3774.4                  | 1545              | 6.4                    | 20.14              | 3258.3                   |                          |
|                     |                  | 54%                | 26063            | 61.5              | 4249.0                  | 1608              | 6.1                    | 21.82              | 3674.0                   |                          |
|                     |                  | 56%                | 28133            | 68.9              | 4762.4                  | 1670              | 5.9                    | 23.57              | 4121.7                   |                          |
|                     |                  | 58%                | 30272            | 77.0              | 5317.9                  | 1732              | 5.7                    | 25.37              | 4601.1                   |                          |
|                     |                  | 60%                | 32473            | 85.7              | 5917.6                  | 1793              | 5.5                    | 27.22              | 5110.5                   |                          |
|                     |                  | 62%                | 34726            | 95.0              | 6564.2                  | 1853              | 5.3                    | 29.12              | 5650.2                   |                          |
|                     |                  | 64%                | 37020            | 105.1             | 7260.7                  | 1913              | 5.1                    | 31.07              | 6223.8                   |                          |
|                     |                  | 66%                | 39341            | 115.9             | 8006.8                  | 1971              | 4.9                    | 33.06              | 6823.2                   |                          |
|                     |                  | 68%                | 41673            | 127.4             | 8802.1                  | 2029              | 4.7                    | 35.07              | 7451.0                   |                          |
| 70%                 | 43999            | 139.5              | 9640.8           | 2085              | 4.6                     | 37.09             | 8097.7                 |                    |                          |                          |
| 72%                 | 46297            | 152.2              | 10516.2          | 2139              | 4.4                     | 39.09             | 8755.3                 |                    |                          |                          |
| 80%                 | 54712            | 203.7              | 14070.9          | 2326              | 3.9                     | 46.43             | 11308.5                |                    |                          |                          |
| 87%                 | 59863            | 237.5              | 16407.5          | 2428              | 3.6                     | 50.70             | 12890.0                |                    |                          |                          |
| 100%                | 61265            | 246.6              | 17040.4          | 2453              | 3.6                     | 51.80             | 13305.3                |                    |                          |                          |

# H15MD-69V & MFC 63x24 (共轴/Coaxial Load)



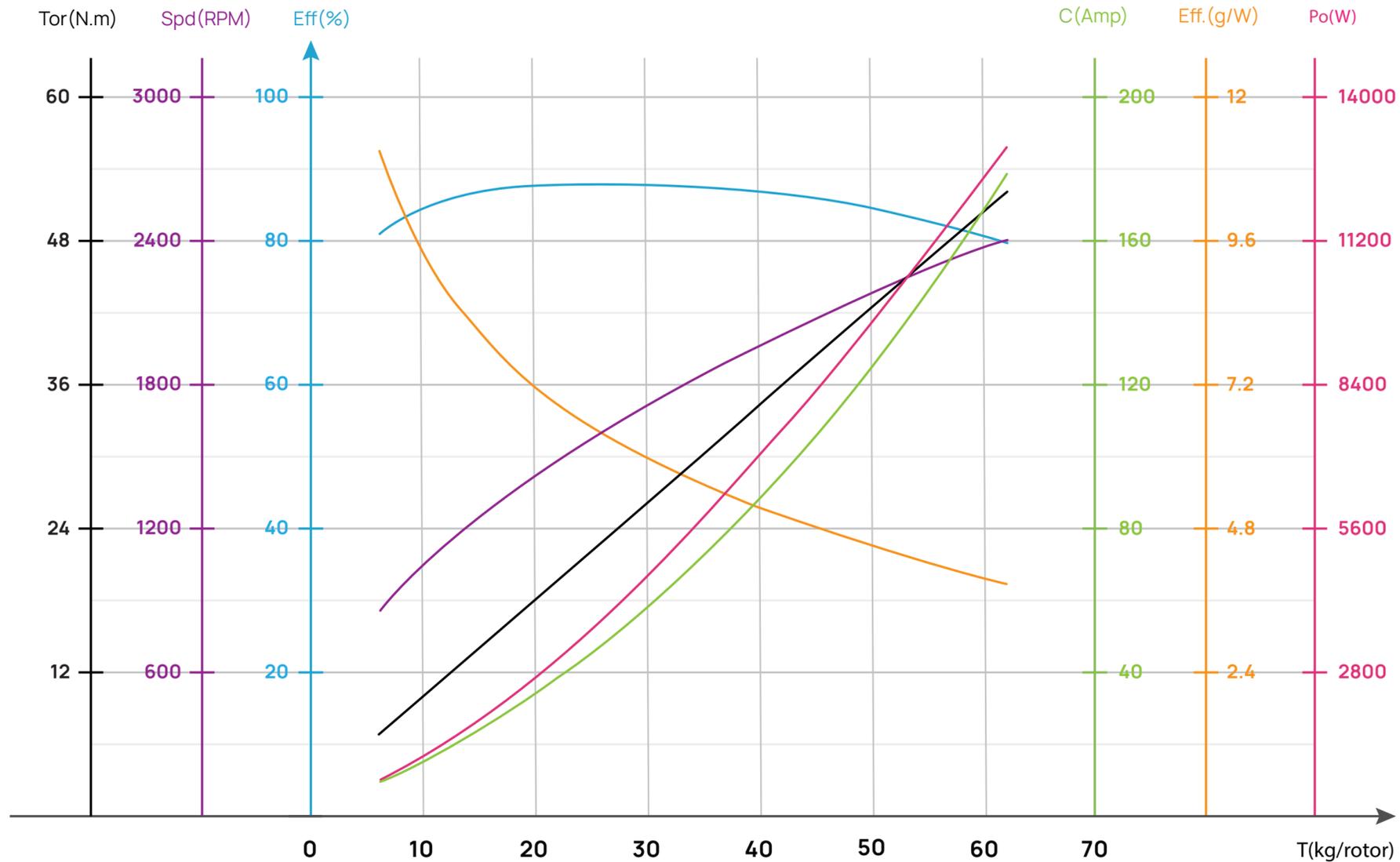
| Voltage<br>工作电压(V) | Propeller<br>螺旋桨 | Throttle<br>油门(%) | Thrust<br>拉力(g) | Current<br>电流(A) | Power Input<br>输入功率(W) | Efficiency<br>效率(%) | Efficiency<br>力效(g/W) | Power Output<br>输出功率(W) | Temperature<br>电机温度(°C) |
|--------------------|------------------|-------------------|-----------------|------------------|------------------------|---------------------|-----------------------|-------------------------|-------------------------|
| 69V<br>(18S LiPo)  | MFC 63x24        | 33%               | 20328           | 25.4             | 1754.6                 | 80.51               | 11.6                  | 1412.7                  | /                       |
|                    |                  | 38%               | 27671           | 38.7             | 2672.0                 | 84.21               | 10.4                  | 2250.1                  |                         |
|                    |                  | 40%               | 30933           | 45.5             | 3141.8                 | 84.86               | 9.8                   | 2666.1                  |                         |
|                    |                  | 42%               | 34385           | 53.2             | 3673.0                 | 85.28               | 9.4                   | 3132.3                  |                         |
|                    |                  | 44%               | 38029           | 61.8             | 4268.5                 | 85.58               | 8.9                   | 3652.9                  |                         |
|                    |                  | 46%               | 41868           | 71.3             | 4928.2                 | 85.81               | 8.5                   | 4228.9                  |                         |
|                    |                  | 48%               | 45902           | 81.9             | 5654.2                 | 86.01               | 8.1                   | 4863.2                  |                         |
|                    |                  | 50%               | 50131           | 93.3             | 6447.9                 | 86.18               | 7.8                   | 5556.8                  |                         |
|                    |                  | 52%               | 54552           | 105.8            | 7312.5                 | 86.34               | 7.5                   | 6313.6                  |                         |
|                    |                  | 54%               | 59160           | 119.4            | 8249.3                 | 86.48               | 7.2                   | 7134.0                  |                         |
|                    |                  | 56%               | 63946           | 134.1            | 9262.2                 | 86.57               | 6.9                   | 8018.3                  |                         |
|                    |                  | 58%               | 68901           | 149.9            | 10356.6                | 86.60               | 6.7                   | 8968.8                  |                         |
|                    |                  | 60%               | 74008           | 167.0            | 11537.3                | 86.55               | 6.4                   | 9985.6                  |                         |
|                    |                  | 62%               | 79248           | 185.4            | 12810.7                | 86.40               | 6.2                   | 11068.4                 |                         |
|                    |                  | 64%               | 84598           | 205.3            | 14181.4                | 86.14               | 6.0                   | 12215.9                 |                         |
|                    |                  | 66%               | 90028           | 226.6            | 15653.0                | 85.75               | 5.8                   | 13422.5                 |                         |
|                    |                  | 68%               | 95505           | 249.3            | 17225.5                | 85.25               | 5.5                   | 14684.8                 |                         |
|                    |                  | 70%               | 100986          | 273.5            | 18894.0                | 84.63               | 5.3                   | 15990.0                 |                         |
|                    |                  | 72%               | 106426          | 298.9            | 20647.5                | 83.92               | 5.2                   | 17327.4                 |                         |
|                    |                  | 80%               | 126578          | 404.9            | 27975.9                | 80.58               | 4.5                   | 22543.0                 |                         |
| 87%                | 139172           | 478.9             | 33083.7         | 78.17            | 4.2                    | 25861.6             |                       |                         |                         |
| 100%               | 142696           | 500.0             | 34547.1         | 77.48            | 4.1                    | 26767.1             |                       |                         |                         |

# H15MD-92V & MSC 64x23 (上轴/Upper Rotor)



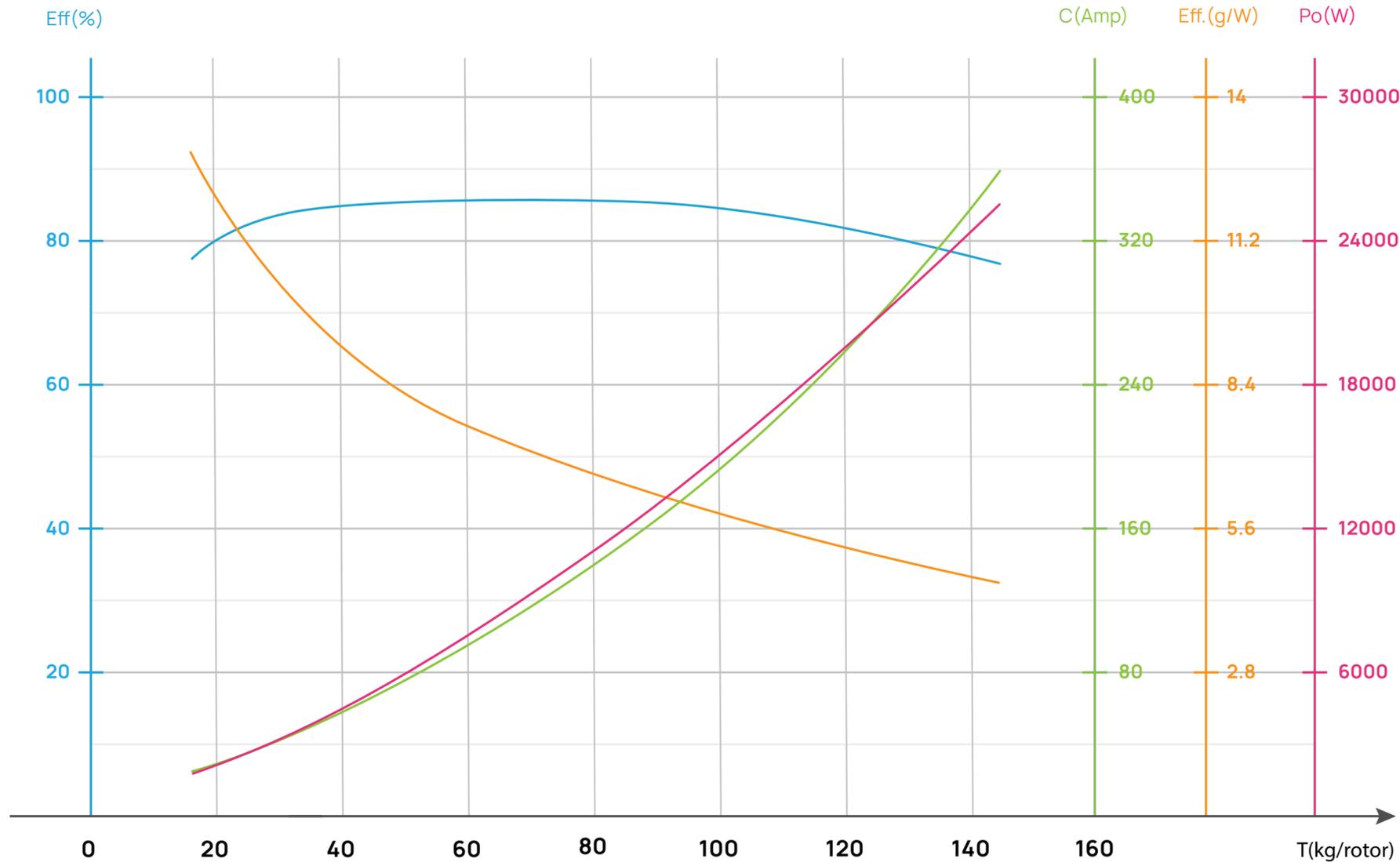
| Voltage<br>工作电压 (V) | Propeller<br>螺旋桨 | Throttle<br>油门 (%) | Thrust<br>拉力 (g) | Current<br>电流 (A) | Power Input<br>输入功率 (W) | Speed<br>转速 (RPM) | Efficiency<br>力效 (g/W) | Torque<br>扭矩 (N·m) | Power Output<br>输出功率 (W) | Temperature<br>电机温度 (°C) |
|---------------------|------------------|--------------------|------------------|-------------------|-------------------------|-------------------|------------------------|--------------------|--------------------------|--------------------------|
| 92V<br>(24S LiPo)   | MSC 64x23        | 33%                | 10550            | 7.7               | 711.0                   | 843               | 14.8                   | 6.17               | 544.9                    | /                        |
|                     |                  | 38%                | 14387            | 11.8              | 1087.8                  | 985               | 13.2                   | 8.58               | 885.3                    |                          |
|                     |                  | 42%                | 18062            | 16.5              | 1515.2                  | 1105              | 11.9                   | 10.88              | 1258.5                   |                          |
|                     |                  | 44%                | 20082            | 19.3              | 1773.5                  | 1166              | 11.3                   | 12.14              | 1481.6                   |                          |
|                     |                  | 46%                | 22223            | 22.4              | 2063.4                  | 1228              | 10.8                   | 13.47              | 1732.1                   |                          |
|                     |                  | 48%                | 24490            | 25.9              | 2386.3                  | 1289              | 10.3                   | 14.89              | 2009.2                   |                          |
|                     |                  | 50%                | 26886            | 29.8              | 2744.2                  | 1350              | 9.8                    | 16.39              | 2316.4                   |                          |
|                     |                  | 52%                | 29417            | 34.1              | 3139.6                  | 1412              | 9.4                    | 17.98              | 2658.0                   |                          |
|                     |                  | 54%                | 32088            | 38.9              | 3575.1                  | 1474              | 9.0                    | 19.66              | 3034.9                   |                          |
|                     |                  | 56%                | 34902            | 44.1              | 4053.8                  | 1537              | 8.6                    | 21.45              | 3451.8                   |                          |
|                     |                  | 58%                | 37862            | 49.8              | 4579.2                  | 1600              | 8.3                    | 23.33              | 3909.1                   |                          |
|                     |                  | 60%                | 40965            | 56.0              | 5155.3                  | 1663              | 7.9                    | 25.32              | 4408.6                   |                          |
|                     |                  | 62%                | 44206            | 62.9              | 5786.4                  | 1727              | 7.6                    | 27.40              | 4954.5                   |                          |
|                     |                  | 64%                | 47574            | 70.4              | 6476.9                  | 1791              | 7.3                    | 29.56              | 5544.4                   |                          |
|                     |                  | 66%                | 51052            | 78.6              | 7231.3                  | 1854              | 7.1                    | 31.80              | 6174.4                   |                          |
|                     |                  | 68%                | 54617            | 87.5              | 8053.0                  | 1916              | 6.8                    | 34.10              | 6841.5                   |                          |
|                     |                  | 70%                | 58235            | 97.2              | 8943.5                  | 1977              | 6.5                    | 36.43              | 7541.1                   |                          |
|                     |                  | 72%                | 61868            | 107.6             | 9900.7                  | 2036              | 6.2                    | 38.76              | 8263.1                   |                          |
| 76%                 | 68962            | 130.2              | 11977.7          | 2143              | 5.8                     | 43.30             | 9715.3                 |                    |                          |                          |
| 80%                 | 75363            | 153.4              | 14117.8          | 2234              | 5.3                     | 47.38             | 11084.1                |                    |                          |                          |
| 85%                 | 81239            | 177.4              | 16328.2          | 2315              | 5.0                     | 51.16             | 12402.6                |                    |                          |                          |
| 100%                | 82890            | 184.7              | 16993.9          | 2337              | 4.9                     | 52.24             | 12783.5                |                    |                          |                          |

# H15MD-92V & MSC 64x23 (下轴/Lower Rotor)



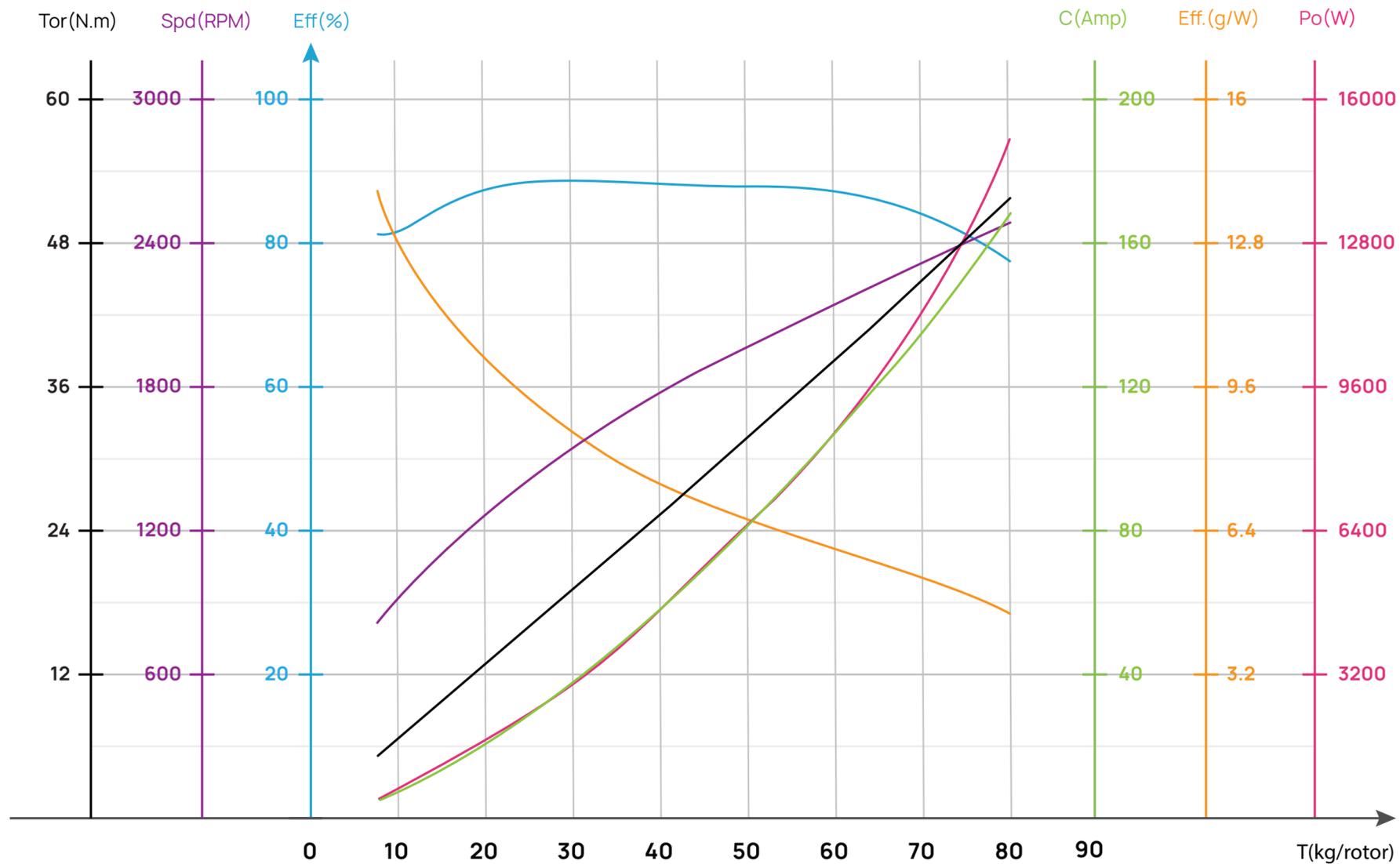
| Voltage<br>工作电压 (V) | Propeller<br>螺旋桨 | Throttle<br>油门 (%) | Thrust<br>拉力 (g) | Current<br>电流 (A) | Power Input<br>输入功率 (W) | Speed<br>转速 (RPM) | Efficiency<br>力效 (g/W) | Torque<br>扭矩 (N·m) | Power Output<br>输出功率 (W) | Temperature<br>电机温度 (°C) |
|---------------------|------------------|--------------------|------------------|-------------------|-------------------------|-------------------|------------------------|--------------------|--------------------------|--------------------------|
| 92V<br>(24S LiPo)   | MSC 64x23        | 33%                | 7785             | 7.9               | 723.2                   | 854               | 10.8                   | 6.55               | 585.7                    | /                        |
|                     |                  | 38%                | 10548            | 12.1              | 1109.2                  | 996               | 9.5                    | 8.89               | 927.3                    |                          |
|                     |                  | 42%                | 13232            | 16.6              | 1530.8                  | 1118              | 8.6                    | 11.15              | 1305.8                   |                          |
|                     |                  | 44%                | 14721            | 19.4              | 1783.3                  | 1180              | 8.3                    | 12.41              | 1532.9                   |                          |
|                     |                  | 46%                | 16305            | 22.5              | 2065.8                  | 1241              | 7.9                    | 13.74              | 1785.0                   |                          |
|                     |                  | 48%                | 17984            | 25.9              | 2380.6                  | 1303              | 7.6                    | 15.15              | 2066.5                   |                          |
|                     |                  | 50%                | 19757            | 29.7              | 2729.9                  | 1365              | 7.2                    | 16.64              | 2377.7                   |                          |
|                     |                  | 52%                | 21625            | 33.9              | 3116.0                  | 1427              | 6.9                    | 18.20              | 2720.2                   |                          |
|                     |                  | 54%                | 23587            | 38.5              | 3541.5                  | 1489              | 6.7                    | 19.85              | 3095.7                   |                          |
|                     |                  | 56%                | 25642            | 43.6              | 4009.1                  | 1551              | 6.4                    | 21.59              | 3505.8                   |                          |
|                     |                  | 58%                | 27788            | 49.1              | 4521.4                  | 1614              | 6.1                    | 23.40              | 3954.4                   |                          |
|                     |                  | 60%                | 30022            | 55.2              | 5080.9                  | 1677              | 5.9                    | 25.29              | 4440.4                   |                          |
|                     |                  | 62%                | 32337            | 61.8              | 5689.7                  | 1740              | 5.7                    | 27.25              | 4964.7                   |                          |
|                     |                  | 64%                | 34727            | 69.0              | 6349.7                  | 1803              | 5.5                    | 29.28              | 5527.3                   |                          |
|                     |                  | 66%                | 37181            | 76.7              | 7061.8                  | 1867              | 5.3                    | 31.36              | 6131.1                   |                          |
|                     |                  | 68%                | 39686            | 85.1              | 7825.9                  | 1930              | 5.1                    | 33.49              | 6768.2                   |                          |
|                     |                  | 70%                | 42224            | 93.9              | 8640.2                  | 1991              | 4.9                    | 35.65              | 7431.7                   |                          |
|                     |                  | 72%                | 44775            | 103.2             | 9500.7                  | 2051              | 4.7                    | 37.81              | 8120.5                   |                          |
| 76%                 | 49813            | 123.1              | 11329.7          | 2162              | 4.4                     | 42.06             | 9522.8                 |                    |                          |                          |
| 80%                 | 54543            | 143.6              | 13212.1          | 2257              | 4.1                     | 46.01             | 10874.8                |                    |                          |                          |
| 85%                 | 59491            | 166.9              | 15360.6          | 2348              | 3.9                     | 50.08             | 12312.8                |                    |                          |                          |
| 100%                | 61610            | 177.5              | 16337.9          | 2385              | 3.8                     | 51.79             | 12934.9                |                    |                          |                          |

# H15MD-92V & MSC 64x23 (共轴/Coaxial Load)



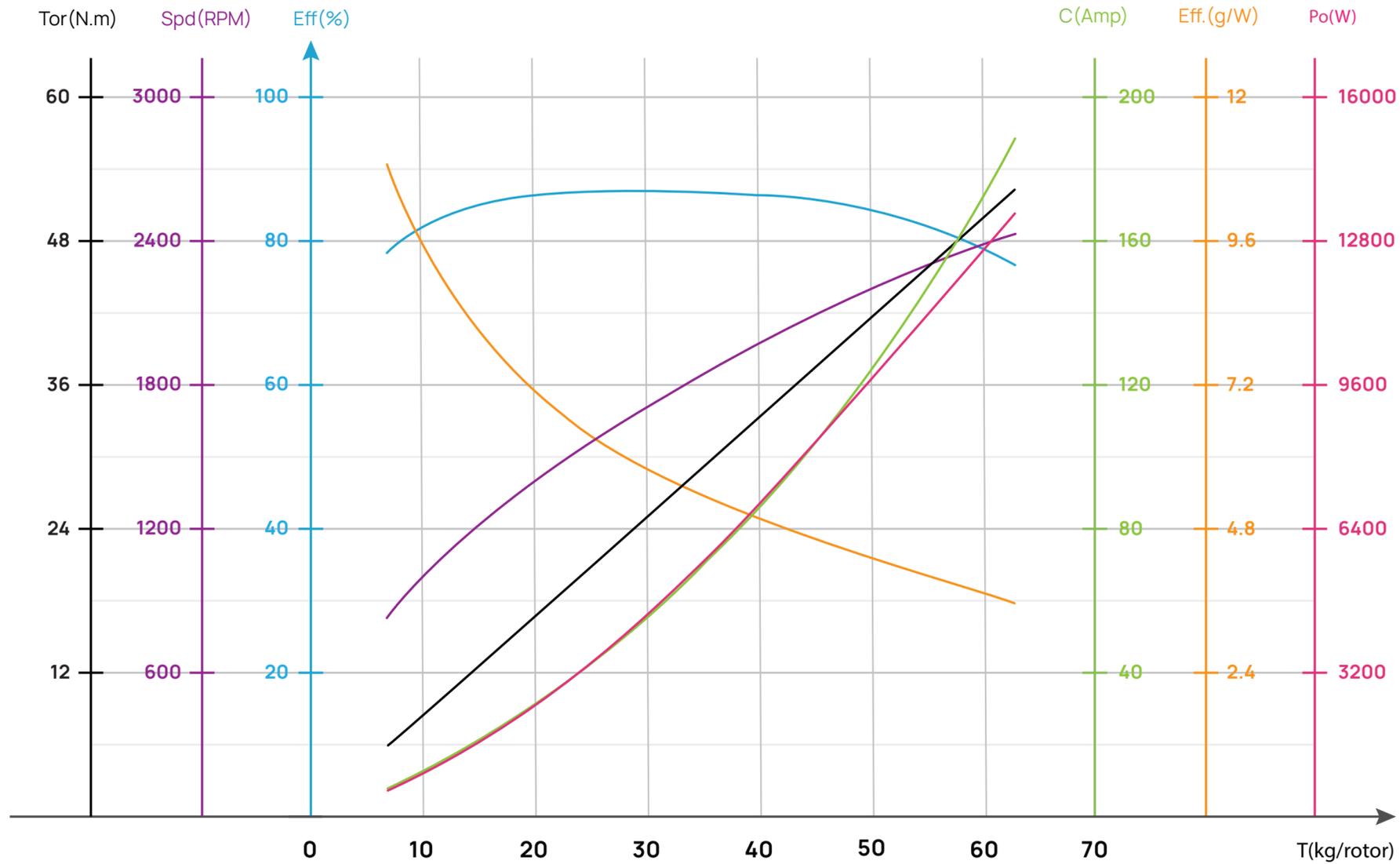
| Voltage<br>工作电压 (V) | Propeller<br>螺旋桨 | Throttle<br>油门 (%) | Thrust<br>拉力 (g) | Current<br>电流 (A) | Power Input<br>输入功率 (W) | Efficiency<br>效率 (%) | Efficiency<br>力效 (g/W) | Power Output<br>输出功率 (W) | Temperature<br>电机温度 (°C) |
|---------------------|------------------|--------------------|------------------|-------------------|-------------------------|----------------------|------------------------|--------------------------|--------------------------|
| 92V<br>(24S LiPo)   | MSC 64x23        | 33%                | 18334            | 15.6              | 1434.2                  | 78.83                | 12.8                   | 1130.6                   | /                        |
|                     |                  | 38%                | 24935            | 23.9              | 2197.0                  | 82.51                | 11.3                   | 1812.7                   |                          |
|                     |                  | 42%                | 31294            | 33.1              | 3046.0                  | 84.20                | 10.3                   | 2564.7                   |                          |
|                     |                  | 44%                | 34803            | 38.7              | 3556.8                  | 84.76                | 9.8                    | 3014.7                   |                          |
|                     |                  | 46%                | 38529            | 44.9              | 4129.2                  | 85.18                | 9.3                    | 3517.2                   |                          |
|                     |                  | 48%                | 42474            | 51.8              | 4766.9                  | 85.51                | 8.9                    | 4076.1                   |                          |
|                     |                  | 50%                | 46643            | 59.5              | 5474.1                  | 85.77                | 8.5                    | 4695.1                   |                          |
|                     |                  | 52%                | 51041            | 68.0              | 6255.6                  | 85.99                | 8.2                    | 5379.2                   |                          |
|                     |                  | 54%                | 55674            | 77.3              | 7116.6                  | 86.16                | 7.8                    | 6131.7                   |                          |
|                     |                  | 56%                | 60544            | 87.6              | 8062.9                  | 86.30                | 7.5                    | 6958.3                   |                          |
|                     |                  | 58%                | 65650            | 98.9              | 9100.6                  | 86.40                | 7.2                    | 7862.9                   |                          |
|                     |                  | 60%                | 70987            | 111.2             | 10236.1                 | 86.46                | 6.9                    | 8850.2                   |                          |
|                     |                  | 62%                | 76544            | 124.7             | 11476.1                 | 86.44                | 6.7                    | 9919.9                   |                          |
|                     |                  | 64%                | 82302            | 139.4             | 12826.6                 | 86.33                | 6.4                    | 11073.2                  |                          |
|                     |                  | 66%                | 88234            | 155.3             | 14293.2                 | 86.10                | 6.2                    | 12306.4                  |                          |
|                     |                  | 68%                | 94302            | 172.6             | 15878.9                 | 85.71                | 5.9                    | 13609.8                  |                          |
|                     |                  | 70%                | 100459           | 191.1             | 17583.7                 | 85.17                | 5.7                    | 14976.0                  |                          |
|                     |                  | 72%                | 106643           | 210.8             | 19401.4                 | 84.45                | 5.5                    | 16384.5                  |                          |
|                     |                  | 76%                | 118776           | 253.3             | 23307.5                 | 82.55                | 5.1                    | 19240.3                  |                          |
|                     |                  | 80%                | 129906           | 297.0             | 27329.8                 | 80.36                | 4.8                    | 21962.2                  |                          |
| 85%                 | 140730           | 344.4              | 31688.8          | 77.99             | 4.4                     | 24714.1              |                        |                          |                          |
| 100%                | 144500           | 362.2              | 33331.7          | 77.17             | 4.3                     | 25722.1              |                        |                          |                          |

# H15MD-92V & MFC 63x24 (上轴/Upper Rotor)



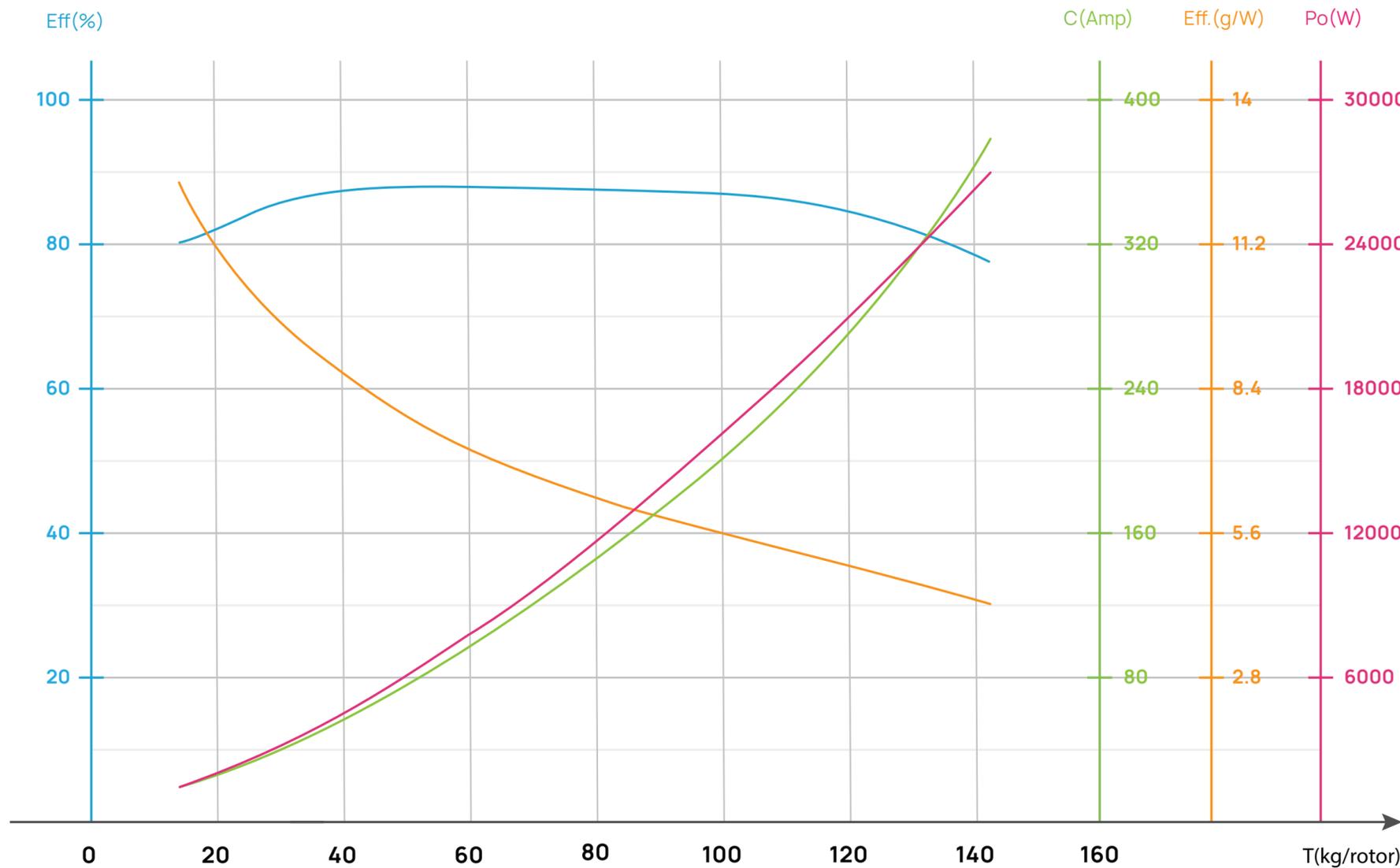
| Voltage<br>工作电压 (V) | Propeller<br>螺旋桨 | Throttle<br>油门 (%) | Thrust<br>拉力 (g) | Current<br>电流 (A) | Power Input<br>输入功率 (W) | Speed<br>转速 (RPM) | Efficiency<br>力效 (g/W) | Torque<br>扭矩 (N·m) | Power Output<br>输出功率 (W) | Temperature<br>电机温度 (°C) |
|---------------------|------------------|--------------------|------------------|-------------------|-------------------------|-------------------|------------------------|--------------------|--------------------------|--------------------------|
| 92V<br>(24S LiPo)   | MFC 63x24        | 33%                | 8675             | 7.0               | 640.5                   | 852               | 13.5                   | 5.82               | 519.2                    | /                        |
|                     |                  | 38%                | 12149            | 10.9              | 1000.4                  | 997               | 12.1                   | 7.92               | 826.8                    |                          |
|                     |                  | 42%                | 15353            | 14.8              | 1360.2                  | 1117              | 11.3                   | 9.88               | 1155.6                   |                          |
|                     |                  | 44%                | 17121            | 17.1              | 1572.8                  | 1178              | 10.9                   | 10.97              | 1353.2                   |                          |
|                     |                  | 46%                | 19011            | 19.7              | 1813.9                  | 1239              | 10.5                   | 12.14              | 1575.0                   |                          |
|                     |                  | 48%                | 21032            | 22.7              | 2085.4                  | 1301              | 10.1                   | 13.40              | 1825.5                   |                          |
|                     |                  | 50%                | 23191            | 26.0              | 2393.7                  | 1364              | 9.7                    | 14.75              | 2106.7                   |                          |
|                     |                  | 52%                | 25491            | 29.8              | 2741.6                  | 1428              | 9.3                    | 16.19              | 2420.9                   |                          |
|                     |                  | 54%                | 27937            | 34.1              | 3133.6                  | 1492              | 8.9                    | 17.72              | 2768.4                   |                          |
|                     |                  | 56%                | 30529            | 38.8              | 3572.6                  | 1557              | 8.5                    | 19.36              | 3156.4                   |                          |
|                     |                  | 58%                | 33266            | 44.1              | 4060.4                  | 1623              | 8.2                    | 21.09              | 3584.2                   |                          |
|                     |                  | 60%                | 36142            | 50.0              | 4598.7                  | 1689              | 7.9                    | 22.92              | 4053.6                   |                          |
|                     |                  | 62%                | 39150            | 56.4              | 5185.9                  | 1754              | 7.5                    | 24.84              | 4562.2                   |                          |
|                     |                  | 64%                | 42278            | 63.3              | 5821.8                  | 1820              | 7.3                    | 26.83              | 5113.2                   |                          |
|                     |                  | 66%                | 45509            | 70.7              | 6501.9                  | 1885              | 7.0                    | 28.90              | 5704.3                   |                          |
|                     |                  | 68%                | 48824            | 78.5              | 7225.3                  | 1950              | 6.8                    | 31.03              | 6336.0                   |                          |
|                     |                  | 70%                | 52198            | 86.8              | 7990.0                  | 2013              | 6.5                    | 33.20              | 6998.1                   |                          |
|                     |                  | 72%                | 55598            | 95.6              | 8796.2                  | 2073              | 6.3                    | 35.40              | 7684.2                   |                          |
| 76%                 | 62334            | 114.5              | 10542.3          | 2188              | 5.9                     | 39.78             | 9114.0                 |                    |                          |                          |
| 80%                 | 68668            | 135.6              | 12476.0          | 2290              | 5.5                     | 43.95             | 10538.8                |                    |                          |                          |
| 85%                 | 75301            | 163.2              | 15021.8          | 2399              | 5.0                     | 48.41             | 12160.8                |                    |                          |                          |
| 100%                | 80032            | 188.5              | 17346.8          | 2483              | 4.6                     | 51.66             | 13431.6                |                    |                          |                          |

# H15MD-92V & MFC 63x24 (下轴/Lower Rotor)



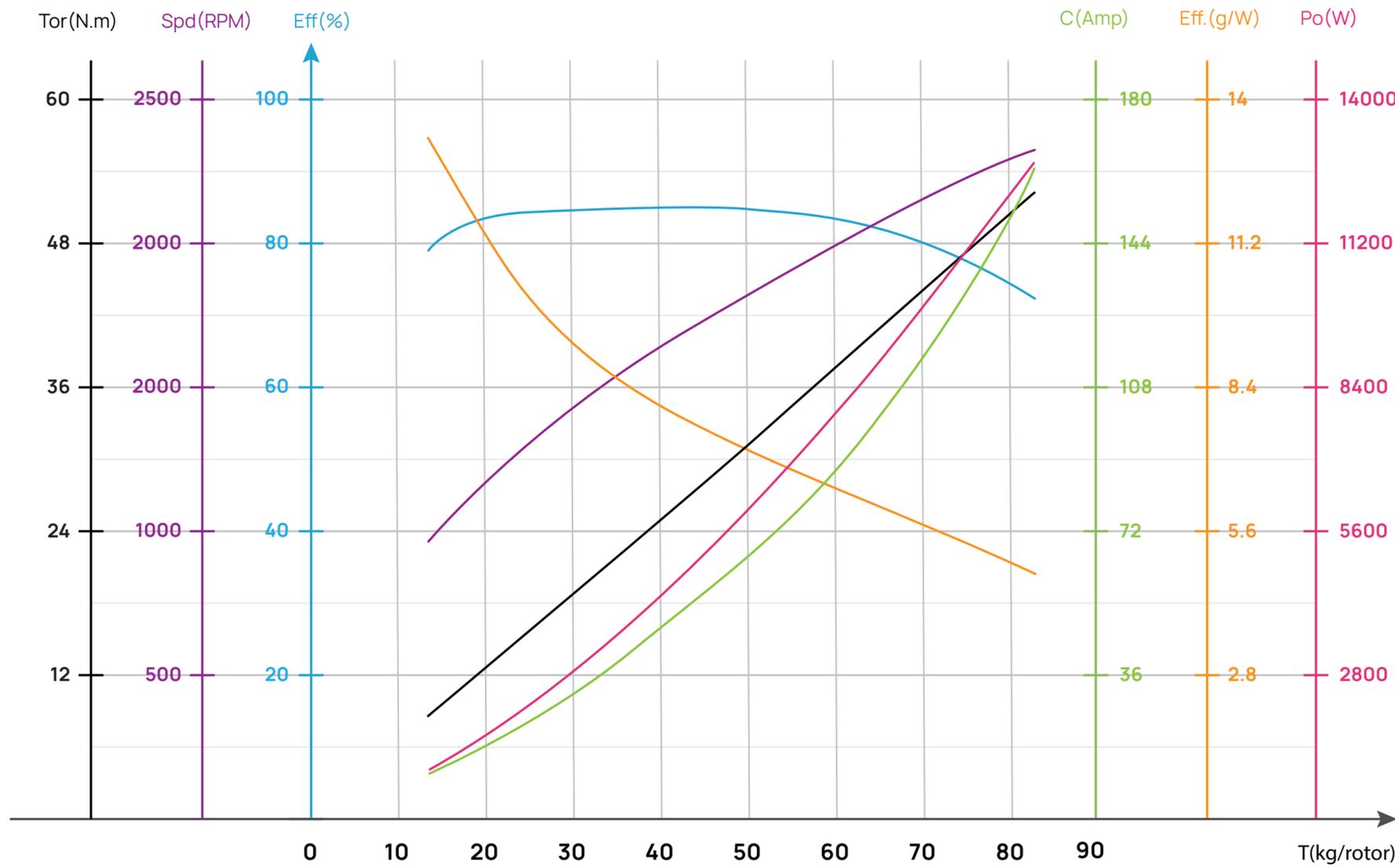
| Voltage<br>工作电压 (V) | Propeller<br>螺旋桨 | Throttle<br>油门 (%) | Thrust<br>拉力 (g) | Current<br>电流 (A) | Power Input<br>输入功率 (W) | Speed<br>转速 (RPM) | Efficiency<br>力效 (g/W) | Torque<br>扭矩 (N·m) | Power Output<br>输出功率 (W) | Temperature<br>电机温度 (°C) |
|---------------------|------------------|--------------------|------------------|-------------------|-------------------------|-------------------|------------------------|--------------------|--------------------------|--------------------------|
| 92V<br>(24S LiPo)   | MFC 63x24        | 33%                | 7368             | 7.5               | 685.6                   | 850               | 10.7                   | 6.13               | 545.6                    | /                        |
|                     |                  | 38%                | 9996             | 11.3              | 1038.1                  | 992               | 9.6                    | 8.25               | 857.0                    |                          |
|                     |                  | 42%                | 12596            | 15.6              | 1434.7                  | 1115              | 8.8                    | 10.39              | 1213.1                   |                          |
|                     |                  | 44%                | 14037            | 18.2              | 1674.0                  | 1177              | 8.4                    | 11.59              | 1428.4                   |                          |
|                     |                  | 46%                | 15565            | 21.1              | 1942.8                  | 1240              | 8.0                    | 12.87              | 1671.1                   |                          |
|                     |                  | 48%                | 17179            | 24.4              | 2242.8                  | 1302              | 7.7                    | 14.23              | 1940.0                   |                          |
|                     |                  | 50%                | 18877            | 28.0              | 2575.0                  | 1365              | 7.3                    | 15.67              | 2239.7                   |                          |
|                     |                  | 52%                | 20659            | 32.0              | 2943.1                  | 1427              | 7.0                    | 17.18              | 2567.1                   |                          |
|                     |                  | 54%                | 22527            | 36.4              | 3348.1                  | 1489              | 6.7                    | 18.76              | 2925.0                   |                          |
|                     |                  | 56%                | 24480            | 41.2              | 3793.5                  | 1552              | 6.5                    | 20.42              | 3318.5                   |                          |
|                     |                  | 58%                | 26519            | 46.5              | 4280.3                  | 1615              | 6.2                    | 22.15              | 3745.8                   |                          |
|                     |                  | 60%                | 28643            | 52.3              | 4811.3                  | 1679              | 6.0                    | 23.96              | 4212.4                   |                          |
|                     |                  | 62%                | 30849            | 58.6              | 5388.4                  | 1743              | 5.7                    | 25.83              | 4714.3                   |                          |
|                     |                  | 64%                | 33133            | 65.4              | 6014.2                  | 1807              | 5.5                    | 27.79              | 5258.3                   |                          |
|                     |                  | 66%                | 35488            | 72.7              | 6689.7                  | 1872              | 5.3                    | 29.81              | 5843.4                   |                          |
|                     |                  | 68%                | 37905            | 80.6              | 7414.9                  | 1937              | 5.1                    | 31.89              | 6468.2                   |                          |
|                     |                  | 70%                | 40370            | 89.0              | 8191.6                  | 2000              | 4.9                    | 34.03              | 7126.7                   |                          |
|                     |                  | 72%                | 42867            | 98.0              | 9018.0                  | 2062              | 4.8                    | 36.20              | 7816.2                   |                          |
| 76%                 | 47868            | 117.5              | 10811.9          | 2177              | 4.4                     | 40.59             | 9252.8                 |                    |                          |                          |
| 80%                 | 52678            | 138.5              | 12744.8          | 2276              | 4.1                     | 44.79             | 10674.6                |                    |                          |                          |
| 85%                 | 57922            | 164.6              | 15148.9          | 2373              | 3.8                     | 49.24             | 12235.2                |                    |                          |                          |
| 100%                | 62351            | 190.0              | 17490.4          | 2449              | 3.6                     | 52.72             | 13519.5                |                    |                          |                          |

# H15MD-92V & MFC 63x24 (共轴/Coaxial Load)



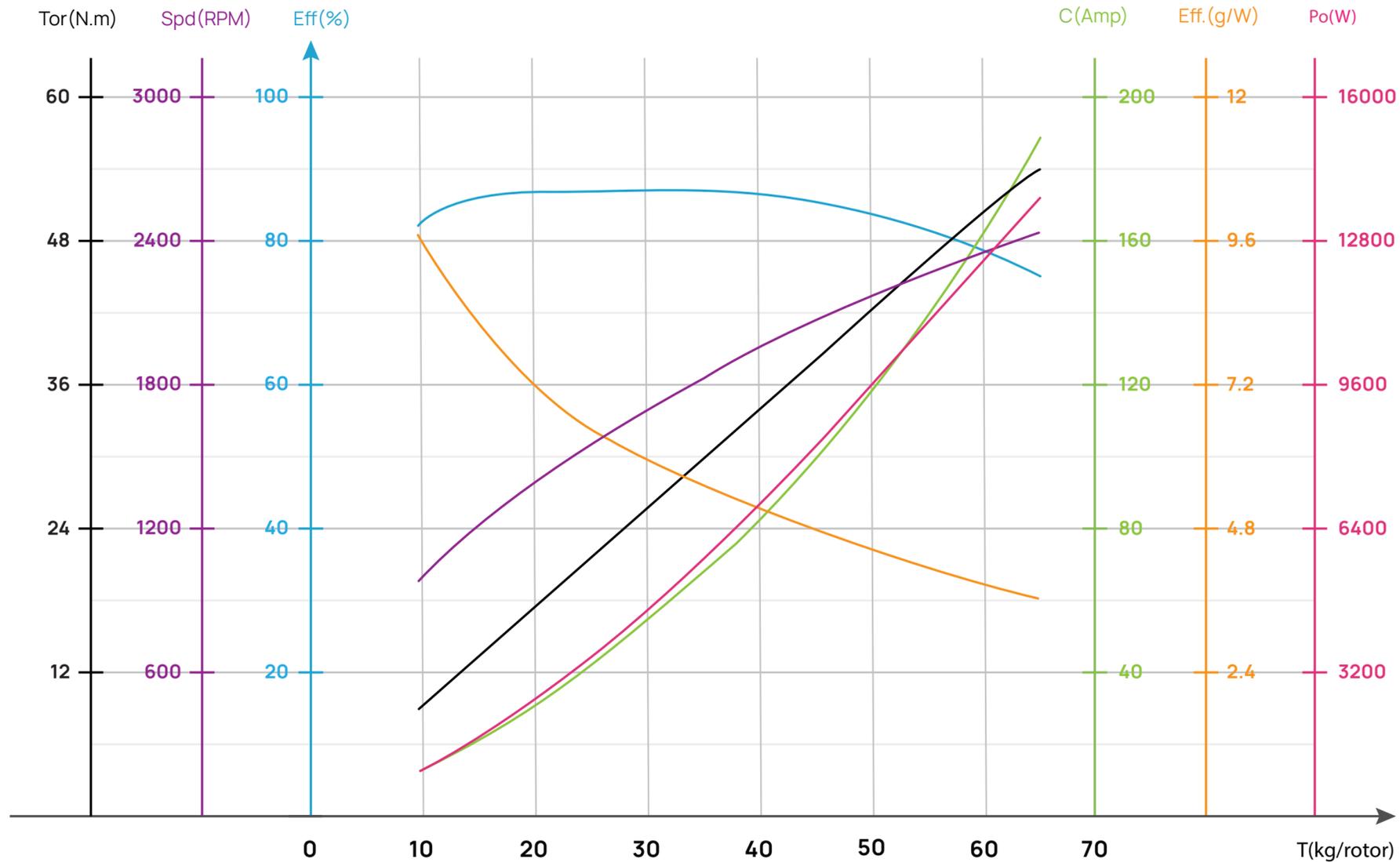
| Voltage<br>工作电压(V) | Propeller<br>螺旋桨 | Throttle<br>油门(%) | Thrust<br>拉力(g) | Current<br>电流(A) | Power Input<br>输入功率(W) | Efficiency<br>效率(%) | Efficiency<br>力效(g/W) | Power Output<br>输出功率(W) | Temperature<br>电机温度(°C) |
|--------------------|------------------|-------------------|-----------------|------------------|------------------------|---------------------|-----------------------|-------------------------|-------------------------|
| 92V<br>(24S LiPo)  | MFC 63x24        | 33%               | 16043           | 14.4             | 1326.2                 | 80.27               | 12.1                  | 1064.5                  | /                       |
|                    |                  | 38%               | 22145           | 22.2             | 2038.5                 | 82.61               | 10.9                  | 1684.0                  |                         |
|                    |                  | 42%               | 27949           | 30.4             | 2795.0                 | 84.77               | 10.0                  | 2369.3                  |                         |
|                    |                  | 44%               | 31158           | 35.3             | 3247.7                 | 85.69               | 9.6                   | 2783.0                  |                         |
|                    |                  | 46%               | 34577           | 40.8             | 3756.7                 | 86.45               | 9.2                   | 3247.6                  |                         |
|                    |                  | 48%               | 38211           | 47.0             | 4328.2                 | 87.04               | 8.8                   | 3767.2                  |                         |
|                    |                  | 50%               | 42068           | 54.0             | 4968.7                 | 87.47               | 8.5                   | 4346.1                  |                         |
|                    |                  | 52%               | 46150           | 61.8             | 5684.7                 | 87.74               | 8.1                   | 4987.7                  |                         |
|                    |                  | 54%               | 50464           | 70.4             | 6481.7                 | 87.88               | 7.8                   | 5696.1                  |                         |
|                    |                  | 56%               | 55009           | 80.0             | 7366.1                 | 87.92               | 7.5                   | 6476.3                  |                         |
|                    |                  | 58%               | 59785           | 90.6             | 8340.7                 | 87.89               | 7.2                   | 7330.6                  |                         |
|                    |                  | 60%               | 64785           | 102.3            | 9410.1                 | 87.82               | 6.9                   | 8263.9                  |                         |
|                    |                  | 62%               | 69999           | 114.9            | 10575.2                | 87.74               | 6.6                   | 9278.7                  |                         |
|                    |                  | 64%               | 75410           | 128.6            | 11836.0                | 87.65               | 6.4                   | 10374.2                 |                         |
|                    |                  | 66%               | 80997           | 143.3            | 13191.6                | 87.56               | 6.1                   | 11550.5                 |                         |
|                    |                  | 68%               | 86729           | 159.1            | 14640.1                | 87.44               | 5.9                   | 12801.3                 |                         |
|                    |                  | 70%               | 92568           | 175.8            | 16181.6                | 87.28               | 5.7                   | 14123.3                 |                         |
|                    |                  | 72%               | 98466           | 193.6            | 17814.2                | 87.02               | 5.5                   | 15502.0                 |                         |
|                    |                  | 76%               | 110202          | 232.0            | 21355.1                | 86.01               | 5.2                   | 18367.5                 |                         |
|                    |                  | 80%               | 121346          | 274.0            | 25219.9                | 84.14               | 4.8                   | 21220.0                 |                         |
| 85%                | 133223           | 327.8             | 30171.6         | 80.86            | 4.4                    | 24396.8             |                       |                         |                         |
| 100%               | 142372           | 378.4             | 34830.7         | 77.38            | 4.1                    | 26952.0             |                       |                         |                         |

# H15MD-108V & MSC 64x23 (上轴/Upper Rotor)



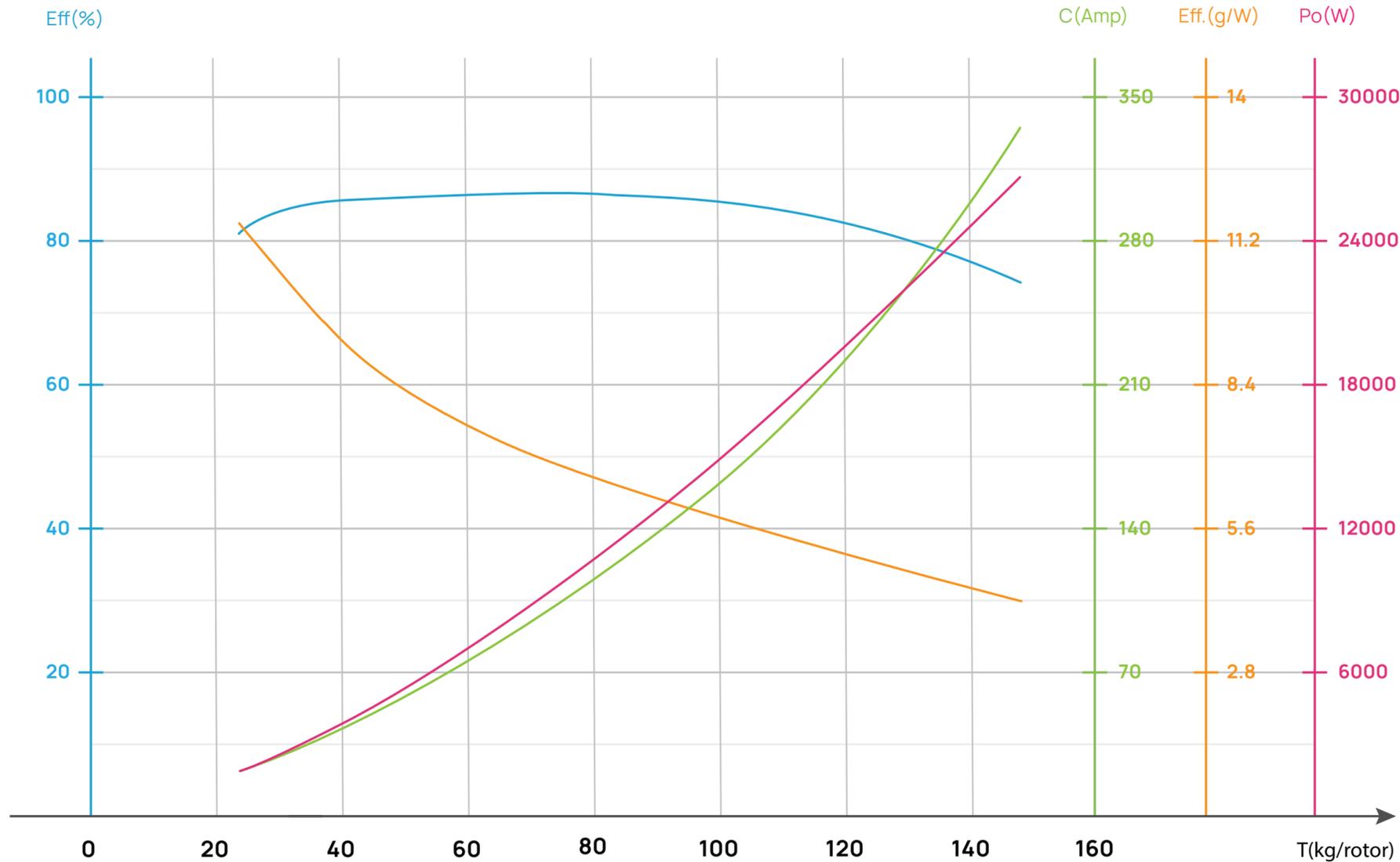
| Voltage<br>工作电压 (V) | Propeller<br>螺旋桨 | Throttle<br>油门 (%) | Thrust<br>拉力 (g) | Current<br>电流 (A) | Power Input<br>输入功率 (W) | Speed<br>转速 (RPM) | Efficiency<br>力效 (g/W) | Torque<br>扭矩 (N·m) | Power Output<br>输出功率 (W) | Temperature<br>电机温度 (°C) |
|---------------------|------------------|--------------------|------------------|-------------------|-------------------------|-------------------|------------------------|--------------------|--------------------------|--------------------------|
| 108V<br>(28S LiPo)  | MSC 64x23        | 33%                | 14384            | 10.2              | 1106.7                  | 985               | 13.0                   | 8.65               | 891.9                    | /                        |
|                     |                  | 38%                | 19604            | 15.9              | 1713.9                  | 1150              | 11.4                   | 11.91              | 1434.2                   |                          |
|                     |                  | 42%                | 24198            | 21.8              | 2351.2                  | 1280              | 10.3                   | 14.81              | 1985.3                   |                          |
|                     |                  | 44%                | 26783            | 25.4              | 2741.6                  | 1348              | 9.8                    | 16.45              | 2321.8                   |                          |
|                     |                  | 46%                | 29592            | 29.5              | 3187.4                  | 1418              | 9.3                    | 18.23              | 2706.5                   |                          |
|                     |                  | 48%                | 32634            | 34.2              | 3692.1                  | 1488              | 8.8                    | 20.15              | 3139.7                   |                          |
|                     |                  | 50%                | 35899            | 39.4              | 4257.7                  | 1560              | 8.4                    | 22.21              | 3628.4                   |                          |
|                     |                  | 52%                | 39370            | 45.2              | 4885.3                  | 1631              | 8.1                    | 24.40              | 4167.3                   |                          |
|                     |                  | 54%                | 43015            | 51.6              | 5576.0                  | 1702              | 7.7                    | 26.70              | 4758.3                   |                          |
|                     |                  | 56%                | 46796            | 58.6              | 6331.6                  | 1772              | 7.4                    | 29.09              | 5397.3                   |                          |
|                     |                  | 58%                | 50666            | 66.2              | 7154.2                  | 1841              | 7.1                    | 31.54              | 6080.7                   |                          |
|                     |                  | 60%                | 54570            | 74.5              | 8045.7                  | 1909              | 6.8                    | 34.04              | 6803.7                   |                          |
|                     |                  | 62%                | 58452            | 83.4              | 9006.1                  | 1975              | 6.5                    | 36.54              | 7555.8                   |                          |
|                     |                  | 64%                | 62249            | 92.9              | 10031.2                 | 2039              | 6.2                    | 39.00              | 8327.3                   |                          |
|                     |                  | 66%                | 65898            | 102.8             | 11110.1                 | 2099              | 5.9                    | 41.39              | 9097.5                   |                          |
|                     |                  | 68%                | 69335            | 113.1             | 12222.7                 | 2154              | 5.7                    | 43.65              | 9846.3                   |                          |
|                     |                  | 70%                | 72497            | 123.5             | 13339.5                 | 2203              | 5.4                    | 45.74              | 10551.7                  |                          |
| 72%                 | 75323            | 133.5              | 14421.0          | 2244              | 5.2                     | 47.60             | 11185.7                |                    |                          |                          |
| 74%                 | 77758            | 142.7              | 15420.8          | 2277              | 5.0                     | 49.20             | 11730.6                |                    |                          |                          |
| 76%                 | 79749            | 150.8              | 16288.3          | 2302              | 4.9                     | 50.49             | 12171.2                |                    |                          |                          |
| 80%                 | 82230            | 161.4              | 17436.2          | 2330              | 4.7                     | 52.09             | 12707.9                |                    |                          |                          |
| 100%                | 82677            | 163.4              | 17651.0          | 2334              | 4.7                     | 52.37             | 12799.0                |                    |                          |                          |

# H15MD-108V & MSC 64x23 (下轴/Lower Rotor)



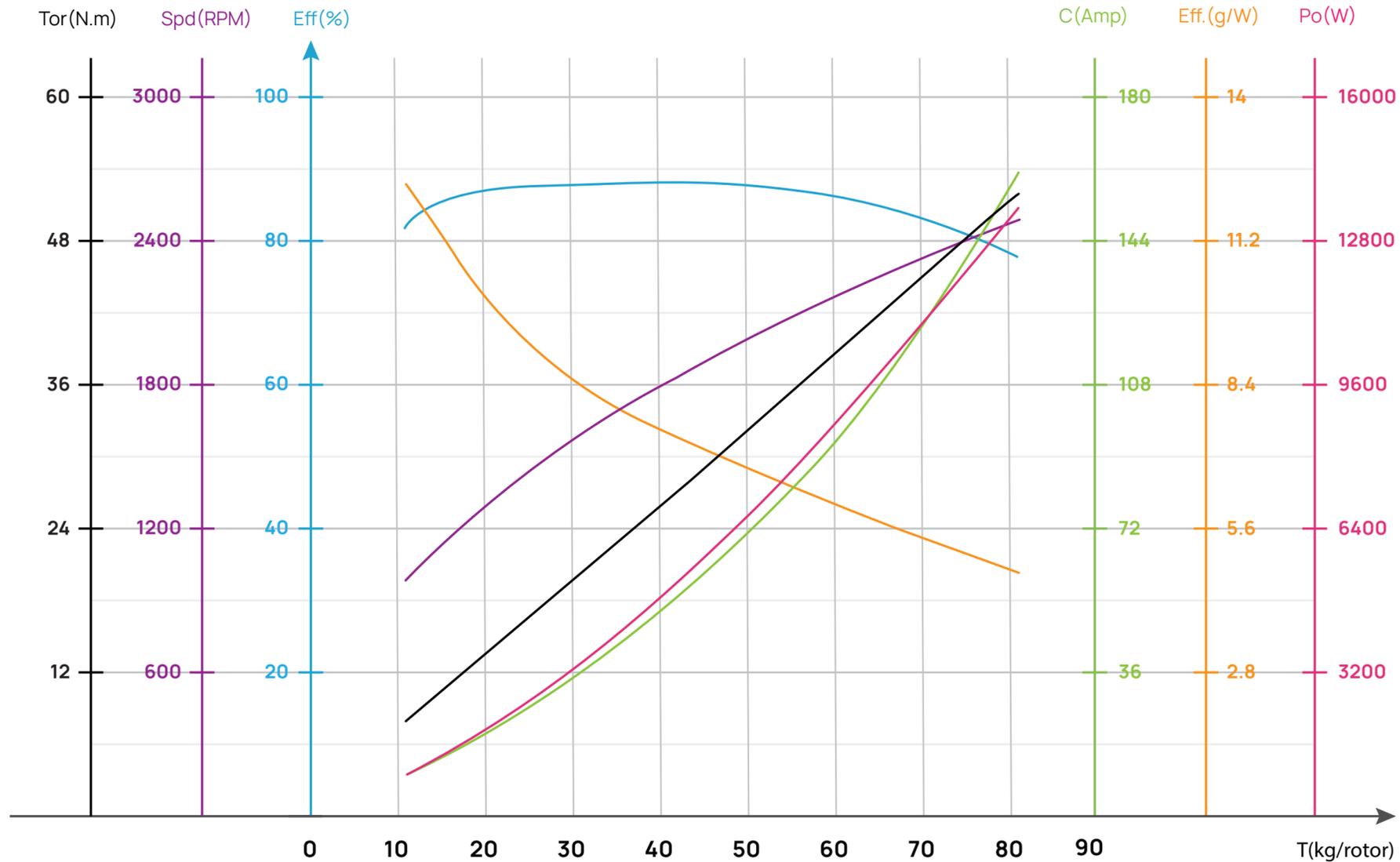
| Voltage<br>工作电压 (V) | Propeller<br>螺旋桨 | Throttle<br>油门 (%) | Thrust<br>拉力 (g) | Current<br>电流 (A) | Power Input<br>输入功率 (W) | Speed<br>转速 (RPM) | Efficiency<br>力效 (g/W) | Torque<br>扭矩 (N·m) | Power Output<br>输出功率 (W) | Temperature<br>电机温度 (°C) |
|---------------------|------------------|--------------------|------------------|-------------------|-------------------------|-------------------|------------------------|--------------------|--------------------------|--------------------------|
| 108V<br>(28S LiPo)  | MSC 64x23        | 33%                | 10527            | 10.3              | 1113.9                  | 996               | 9.5                    | 8.85               | 922.8                    | /                        |
|                     |                  | 38%                | 14338            | 15.9              | 1717.9                  | 1164              | 8.3                    | 12.05              | 1468.1                   |                          |
|                     |                  | 42%                | 17888            | 22.0              | 2374.9                  | 1300              | 7.5                    | 15.05              | 2048.5                   |                          |
|                     |                  | 44%                | 19844            | 25.6              | 2768.2                  | 1369              | 7.2                    | 16.70              | 2394.4                   |                          |
|                     |                  | 46%                | 21922            | 29.7              | 3207.7                  | 1438              | 6.8                    | 18.46              | 2779.3                   |                          |
|                     |                  | 48%                | 24123            | 34.2              | 3695.5                  | 1508              | 6.5                    | 20.31              | 3207.4                   |                          |
|                     |                  | 50%                | 26444            | 39.2              | 4234.2                  | 1578              | 6.2                    | 22.26              | 3678.5                   |                          |
|                     |                  | 52%                | 28881            | 44.7              | 4826.2                  | 1648              | 6.0                    | 24.31              | 4194.3                   |                          |
|                     |                  | 54%                | 31425            | 50.7              | 5474.6                  | 1719              | 5.7                    | 26.44              | 4758.8                   |                          |
|                     |                  | 56%                | 34066            | 57.2              | 6182.7                  | 1789              | 5.5                    | 28.65              | 5367.5                   |                          |
|                     |                  | 58%                | 36790            | 64.4              | 6954.0                  | 1859              | 5.3                    | 30.94              | 6023.6                   |                          |
|                     |                  | 60%                | 39578            | 72.1              | 7791.3                  | 1929              | 5.1                    | 33.30              | 6726.5                   |                          |
|                     |                  | 62%                | 42409            | 80.5              | 8696.1                  | 1996              | 4.9                    | 35.71              | 7463.1                   |                          |
|                     |                  | 64%                | 45254            | 89.5              | 9667.5                  | 2061              | 4.7                    | 38.14              | 8231.2                   |                          |
|                     |                  | 66%                | 48084            | 99.0              | 10700.2                 | 2123              | 4.5                    | 40.57              | 9018.3                   |                          |
|                     |                  | 68%                | 50862            | 109.1             | 11782.9                 | 2180              | 4.3                    | 42.95              | 9803.7                   |                          |
|                     |                  | 70%                | 53546            | 119.4             | 12897.4                 | 2233              | 4.2                    | 45.23              | 10575.4                  |                          |
|                     |                  | 72%                | 56089            | 129.7             | 14016.9                 | 2280              | 4.0                    | 47.35              | 11305.5                  |                          |
|                     |                  | 74%                | 58438            | 139.8             | 15106.0                 | 2322              | 3.9                    | 49.27              | 11978.5                  |                          |
|                     |                  | 76%                | 60532            | 149.2             | 16121.3                 | 2357              | 3.8                    | 50.91              | 12564.6                  |                          |
| 80%                 | 63689            | 164.1              | 17726.4          | 2409              | 3.6                     | 53.23             | 13427.1                |                    |                          |                          |
| 100%                | 64849            | 169.7              | 18336.9          | 2428              | 3.5                     | 54.02             | 13734.0                |                    |                          |                          |

# H15MD-108V & MSC 64x23 (共轴/Coaxial Load)



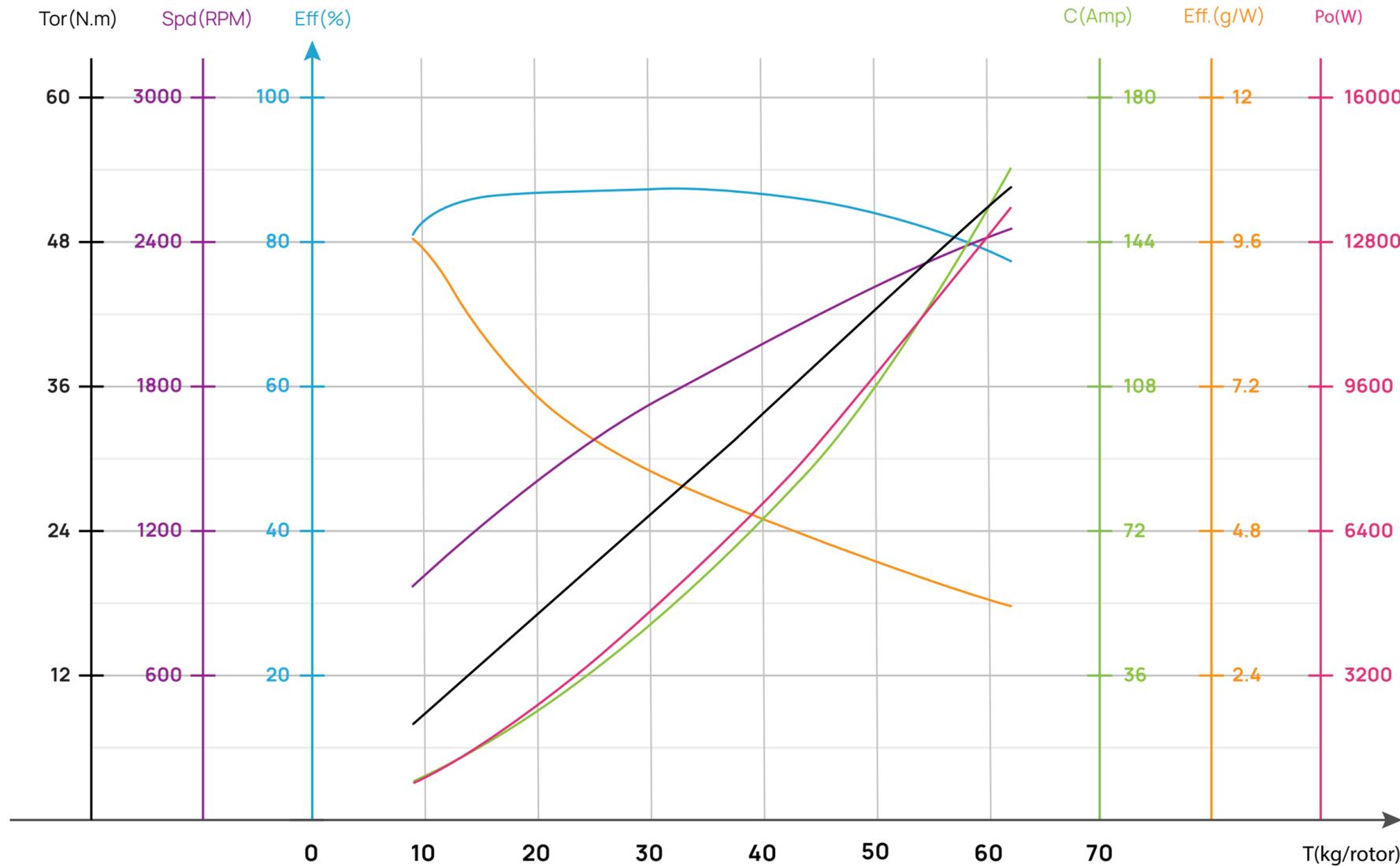
| Voltage<br>工作电压(V) | Propeller<br>螺旋桨 | Throttle<br>油门(%) | Thrust<br>拉力(g) | Current<br>电流(A) | Power Input<br>输入功率(W) | Efficiency<br>效率(%) | Efficiency<br>力效(g/W) | Power Output<br>输出功率(W) | Temperature<br>电机温度(°C) |
|--------------------|------------------|-------------------|-----------------|------------------|------------------------|---------------------|-----------------------|-------------------------|-------------------------|
| 108V<br>(28S LiPo) | MSC 64x23        | 33%               | 24912           | 20.6             | 2220.5                 | 81.72               | 11.2                  | 1814.6                  | /                       |
|                    |                  | 38%               | 33942           | 31.8             | 3431.8                 | 84.57               | 9.9                   | 2902.3                  |                         |
|                    |                  | 42%               | 42087           | 43.7             | 4726.1                 | 85.38               | 8.9                   | 4035.2                  |                         |
|                    |                  | 44%               | 46626           | 51.0             | 5509.8                 | 85.61               | 8.5                   | 4716.9                  |                         |
|                    |                  | 46%               | 51514           | 59.2             | 6395.0                 | 85.78               | 8.1                   | 5485.7                  |                         |
|                    |                  | 48%               | 56756           | 68.4             | 7387.6                 | 85.92               | 7.7                   | 6347.4                  |                         |
|                    |                  | 50%               | 62343           | 78.6             | 8491.8                 | 86.04               | 7.3                   | 7306.4                  |                         |
|                    |                  | 52%               | 68251           | 89.9             | 9711.5                 | 86.11               | 7.0                   | 8362.6                  |                         |
|                    |                  | 54%               | 74440           | 102.3            | 11050.7                | 86.12               | 6.7                   | 9516.8                  |                         |
|                    |                  | 56%               | 80863           | 115.8            | 12514.4                | 86.03               | 6.5                   | 10766.1                 |                         |
|                    |                  | 58%               | 87456           | 130.6            | 14108.2                | 85.82               | 6.2                   | 12107.6                 |                         |
|                    |                  | 60%               | 94149           | 146.6            | 15836.9                | 85.44               | 5.9                   | 13531.1                 |                         |
|                    |                  | 62%               | 100861          | 163.9            | 17702.2                | 84.86               | 5.7                   | 15022.1                 |                         |
|                    |                  | 64%               | 107503          | 182.3            | 19698.8                | 84.07               | 5.5                   | 16560.8                 |                         |
|                    |                  | 66%               | 113982          | 201.9            | 21810.2                | 83.07               | 5.2                   | 18117.8                 |                         |
|                    |                  | 68%               | 120197          | 222.2            | 24005.7                | 81.87               | 5.0                   | 19653.4                 |                         |
|                    |                  | 70%               | 126043          | 242.8            | 26236.9                | 80.52               | 4.8                   | 21126.0                 |                         |
|                    |                  | 72%               | 131412          | 263.2            | 28437.9                | 79.10               | 4.6                   | 22494.4                 |                         |
|                    |                  | 74%               | 136195          | 282.5            | 30526.7                | 77.67               | 4.5                   | 23710.1                 |                         |
|                    |                  | 76%               | 140281          | 300.0            | 32409.7                | 76.34               | 4.3                   | 24741.5                 |                         |
| 80%                | 145919           | 325.4             | 35162.5         | 74.33            | 4.1                    | 26136.3             |                       |                         |                         |
| 100%               | 147509           | 333.0             | 35979.8         | 73.75            | 4.1                    | 26535.1             |                       |                         |                         |

# H15MD-108V & MFC 63x24 (上轴/Upper Rotor)



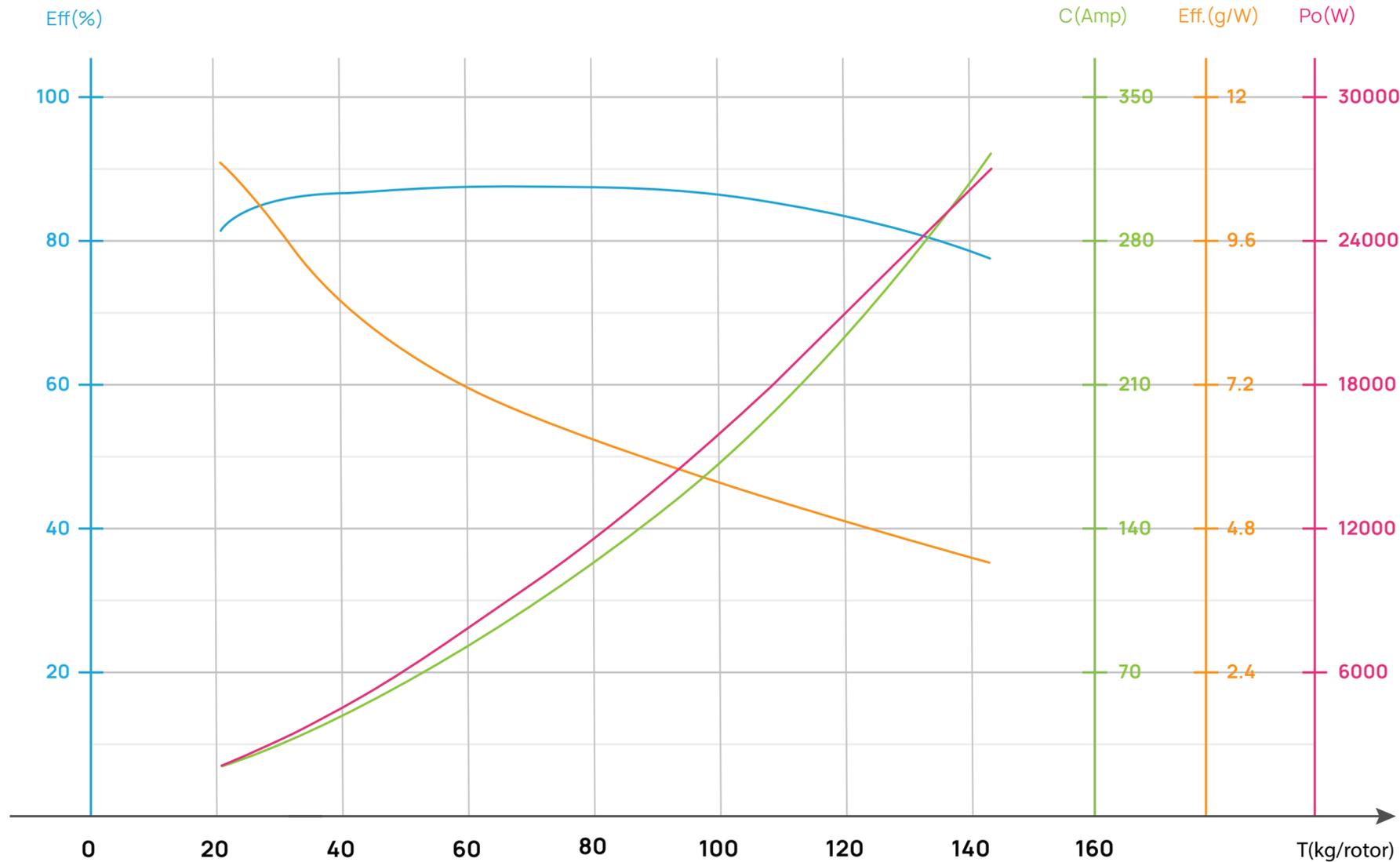
| Voltage<br>工作电压 (V) | Propeller<br>螺旋桨 | Throttle<br>油门 (%) | Thrust<br>拉力 (g) | Current<br>电流 (A) | Power Input<br>输入功率 (W) | Speed<br>转速 (RPM) | Efficiency<br>力效 (g/W) | Torque<br>扭矩 (N·m) | Power Output<br>输出功率 (W) | Temperature<br>电机温度 (°C) |
|---------------------|------------------|--------------------|------------------|-------------------|-------------------------|-------------------|------------------------|--------------------|--------------------------|--------------------------|
| 108V<br>(28S LiPo)  | MFC 63x24        | 33%                | 11904            | 9.1               | 981.7                   | 991               | 12.1                   | 7.83               | 812.5                    | /                        |
|                     |                  | 38%                | 16440            | 13.9              | 1500.1                  | 1159              | 11.0                   | 10.62              | 1288.9                   |                          |
|                     |                  | 42%                | 20757            | 19.3              | 2085.5                  | 1299              | 10.0                   | 13.34              | 1814.5                   |                          |
|                     |                  | 44%                | 23147            | 22.6              | 2438.6                  | 1369              | 9.5                    | 14.85              | 2128.8                   |                          |
|                     |                  | 46%                | 25696            | 26.3              | 2836.1                  | 1440              | 9.1                    | 16.46              | 2481.9                   |                          |
|                     |                  | 48%                | 28408            | 30.4              | 3277.8                  | 1512              | 8.7                    | 18.17              | 2876.8                   |                          |
|                     |                  | 50%                | 31285            | 34.9              | 3767.0                  | 1583              | 8.3                    | 19.98              | 3311.9                   |                          |
|                     |                  | 52%                | 34330            | 39.9              | 4306.0                  | 1655              | 8.0                    | 21.88              | 3791.8                   |                          |
|                     |                  | 54%                | 37538            | 45.4              | 4898.9                  | 1727              | 7.7                    | 23.88              | 4318.4                   |                          |
|                     |                  | 56%                | 40904            | 51.4              | 5551.2                  | 1799              | 7.4                    | 25.99              | 4895.9                   |                          |
|                     |                  | 58%                | 44416            | 58.0              | 6267.2                  | 1871              | 7.1                    | 28.19              | 5522.9                   |                          |
|                     |                  | 60%                | 48057            | 65.3              | 7055.6                  | 1942              | 6.8                    | 30.49              | 6200.2                   |                          |
|                     |                  | 62%                | 51799            | 73.3              | 7921.5                  | 2013              | 6.5                    | 32.90              | 6934.8                   |                          |
|                     |                  | 64%                | 55611            | 82.1              | 8868.7                  | 2082              | 6.3                    | 35.39              | 7715.4                   |                          |
|                     |                  | 66%                | 59448            | 91.7              | 9899.1                  | 2149              | 6.0                    | 37.94              | 8537.5                   |                          |
|                     |                  | 68%                | 63256            | 101.9             | 11007.3                 | 2213              | 5.7                    | 40.50              | 9385.0                   |                          |
|                     |                  | 70%                | 66972            | 112.7             | 12174.9                 | 2273              | 5.5                    | 43.02              | 10239.2                  |                          |
|                     |                  | 72%                | 70515            | 123.8             | 13374.9                 | 2328              | 5.3                    | 45.41              | 11069.6                  |                          |
| 74%                 | 73796            | 134.8              | 14562.2          | 2379              | 5.1                     | 47.57             | 11850.2                |                    |                          |                          |
| 76%                 | 76708            | 145.1              | 15678.0          | 2423              | 4.9                     | 49.42             | 12538.7                |                    |                          |                          |
| 78%                 | 79129            | 154.1              | 16648.0          | 2459              | 4.8                     | 50.88             | 13100.9                |                    |                          |                          |
| 100%                | 80919            | 161.0              | 17390.1          | 2486              | 4.7                     | 51.90             | 13510.3                |                    |                          |                          |

# H15MD-108V & MFC 63x24 (下轴/Lower Rotor)



| Voltage<br>工作电压 (V) | Propeller<br>螺旋桨 | Throttle<br>油门 (%) | Thrust<br>拉力 (g) | Current<br>电流 (A) | Power Input<br>输入功率 (W) | Speed<br>转速 (RPM) | Efficiency<br>力效 (g/W) | Torque<br>扭矩 (N·m) | Power Output<br>输出功率 (W) | Temperature<br>电机温度 (°C) |
|---------------------|------------------|--------------------|------------------|-------------------|-------------------------|-------------------|------------------------|--------------------|--------------------------|--------------------------|
| 108V<br>(28S LiPo)  | MFC 63x24        | 33%                | 10031            | 9.7               | 1050.8                  | 995               | 9.5                    | 8.33               | 867.9                    | /                        |
|                     |                  | 38%                | 13747            | 14.9              | 1610.3                  | 1161              | 8.5                    | 11.37              | 1382.3                   |                          |
|                     |                  | 42%                | 17160            | 20.8              | 2243.2                  | 1299              | 7.6                    | 14.26              | 1939.7                   |                          |
|                     |                  | 44%                | 19037            | 24.3              | 2624.4                  | 1369              | 7.3                    | 15.86              | 2273.5                   |                          |
|                     |                  | 46%                | 21034            | 28.3              | 3051.0                  | 1440              | 6.9                    | 17.57              | 2649.3                   |                          |
|                     |                  | 48%                | 23153            | 32.6              | 3523.0                  | 1511              | 6.6                    | 19.37              | 3064.7                   |                          |
|                     |                  | 50%                | 25391            | 37.4              | 4041.4                  | 1582              | 6.3                    | 21.27              | 3523.5                   |                          |
|                     |                  | 52%                | 27746            | 42.7              | 4606.2                  | 1652              | 6.0                    | 23.26              | 4023.6                   |                          |
|                     |                  | 54%                | 30208            | 48.4              | 5222.9                  | 1723              | 5.8                    | 25.32              | 4568.2                   |                          |
|                     |                  | 56%                | 32767            | 54.6              | 5893.6                  | 1793              | 5.6                    | 27.47              | 5157.5                   |                          |
|                     |                  | 58%                | 35408            | 61.3              | 6623.6                  | 1862              | 5.3                    | 29.68              | 5786.8                   |                          |
|                     |                  | 60%                | 38115            | 68.7              | 7420.7                  | 1931              | 5.1                    | 31.97              | 6464.3                   |                          |
|                     |                  | 62%                | 40865            | 76.8              | 8290.8                  | 1999              | 4.9                    | 34.33              | 7185.9                   |                          |
|                     |                  | 64%                | 43633            | 85.5              | 9233.8                  | 2066              | 4.7                    | 36.73              | 7946.0                   |                          |
|                     |                  | 66%                | 46390            | 94.9              | 10251.2                 | 2132              | 4.5                    | 39.16              | 8742.3                   |                          |
|                     |                  | 68%                | 49102            | 104.9             | 11331.3                 | 2196              | 4.3                    | 41.58              | 9561.2                   |                          |
|                     |                  | 70%                | 51732            | 115.3             | 12457.9                 | 2257              | 4.2                    | 43.94              | 10384.6                  |                          |
|                     |                  | 72%                | 54238            | 125.9             | 13602.8                 | 2312              | 4.0                    | 46.18              | 11179.9                  |                          |
|                     |                  | 74%                | 56575            | 136.4             | 14731.8                 | 2361              | 3.8                    | 48.23              | 11923.7                  |                          |
|                     |                  | 76%                | 58690            | 146.3             | 15797.9                 | 2402              | 3.7                    | 50.04              | 12586.0                  |                          |
| 78%                 | 60528            | 155.1              | 16753.9          | 2435              | 3.6                     | 51.55             | 13143.9                |                    |                          |                          |
| 100%                | 62029            | 162.5              | 17551.1          | 2459              | 3.5                     | 52.72             | 13574.7                |                    |                          |                          |

# H15MD-108V & MFC 63x24 (共轴/Coaxial Load)



| Voltage<br>工作电压(V) | Propeller<br>螺旋桨 | Throttle<br>油门(%) | Thrust<br>拉力(g) | Current<br>电流(A) | Power Input<br>输入功率(W) | Efficiency<br>效率(%) | Efficiency<br>力效(g/W) | Power Output<br>输出功率(W) | Temperature<br>电机温度(°C) |
|--------------------|------------------|-------------------|-----------------|------------------|------------------------|---------------------|-----------------------|-------------------------|-------------------------|
| 108V<br>(28S LiPo) | MFC 63x24        | 33%               | 21935           | 18.8             | 2032.6                 | 82.70               | 10.8                  | 1680.9                  | /                       |
|                    |                  | 38%               | 30188           | 28.8             | 3110.4                 | 85.90               | 9.7                   | 2671.8                  |                         |
|                    |                  | 42%               | 37917           | 40.1             | 4327.6                 | 86.73               | 8.8                   | 3753.3                  |                         |
|                    |                  | 44%               | 42184           | 46.9             | 5064.1                 | 86.97               | 8.3                   | 4404.3                  |                         |
|                    |                  | 46%               | 46730           | 54.5             | 5887.1                 | 87.18               | 7.9                   | 5132.4                  |                         |
|                    |                  | 48%               | 51560           | 63.0             | 6800.8                 | 87.37               | 7.6                   | 5941.8                  |                         |
|                    |                  | 50%               | 56677           | 72.3             | 7807.3                 | 87.55               | 7.3                   | 6835.3                  |                         |
|                    |                  | 52%               | 62075           | 82.5             | 8912.2                 | 87.70               | 7.0                   | 7816.0                  |                         |
|                    |                  | 54%               | 67746           | 93.7             | 10121.8                | 87.80               | 6.7                   | 8886.9                  |                         |
|                    |                  | 56%               | 73671           | 106.0            | 11443.7                | 87.82               | 6.4                   | 10049.8                 |                         |
|                    |                  | 58%               | 79825           | 119.4            | 12890.9                | 87.73               | 6.2                   | 11309.2                 |                         |
|                    |                  | 60%               | 86172           | 134.0            | 14476.3                | 87.50               | 6.0                   | 12666.8                 |                         |
|                    |                  | 62%               | 92664           | 150.1            | 16212.3                | 87.10               | 5.7                   | 14120.9                 |                         |
|                    |                  | 64%               | 99244           | 167.6            | 18103.6                | 86.52               | 5.5                   | 15663.2                 |                         |
|                    |                  | 66%               | 105837          | 186.6            | 20150.3                | 85.76               | 5.3                   | 17280.9                 |                         |
|                    |                  | 68%               | 112358          | 206.8            | 22338.6                | 84.82               | 5.0                   | 18947.6                 |                         |
|                    |                  | 70%               | 118704          | 228.1            | 24632.8                | 83.72               | 4.8                   | 20622.5                 |                         |
|                    |                  | 72%               | 124754          | 249.8            | 26977.7                | 82.48               | 4.6                   | 22251.2                 |                         |
|                    |                  | 74%               | 130371          | 271.2            | 29295.0                | 81.16               | 4.5                   | 23775.8                 |                         |
|                    |                  | 76%               | 135398          | 291.4            | 31475.9                | 79.83               | 4.3                   | 25127.2                 |                         |
| 78%                | 139657           | 309.2             | 33401.9         | 78.58            | 4.2                    | 26247.2             |                       |                         |                         |
| 100%               | 142949           | 323.5             | 34941.2         | 77.52            | 4.1                    | 27086.4             |                       |                         |                         |