

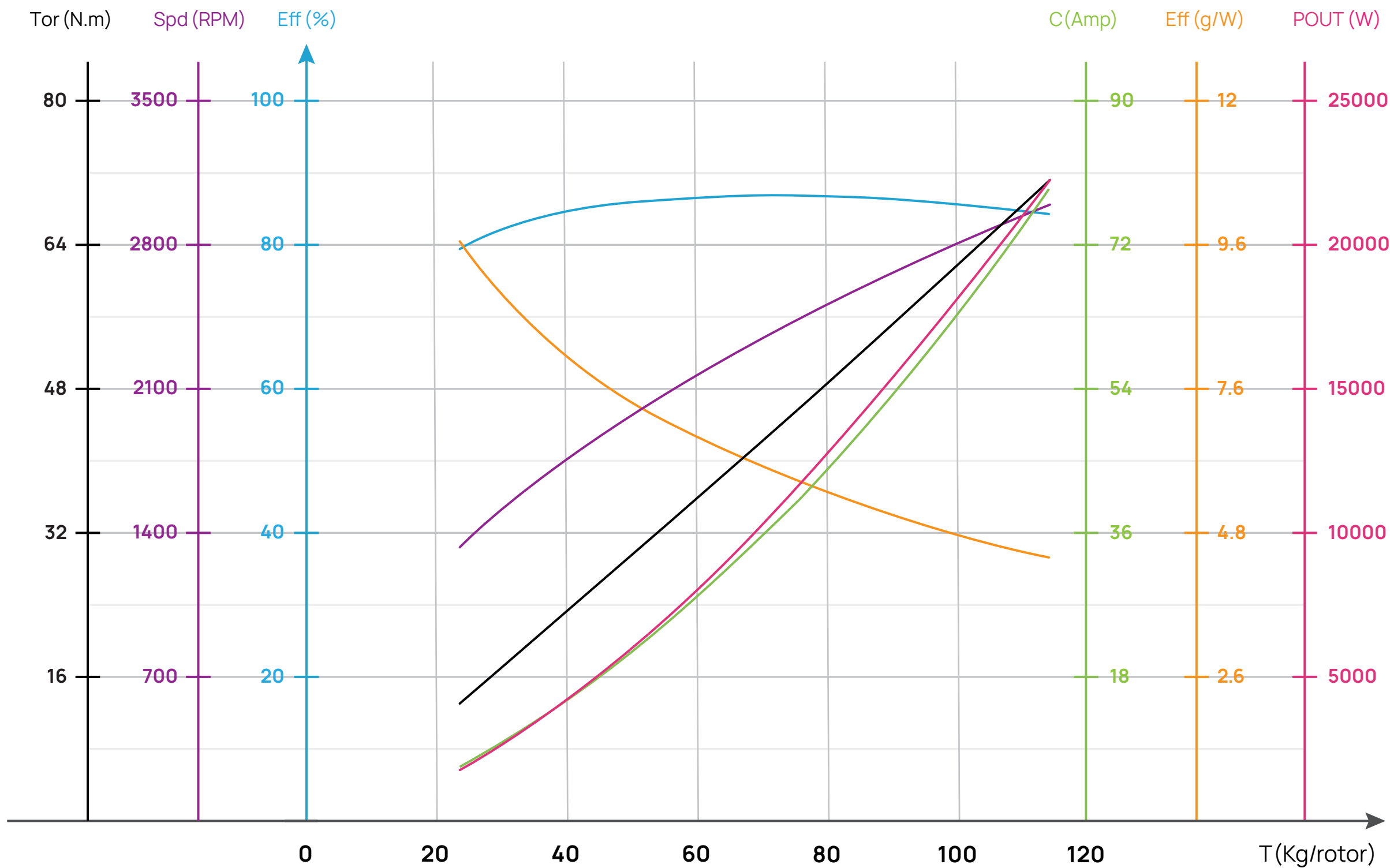


# LOAD PERFORMANCE PARAMETERS

## 负载性能参数

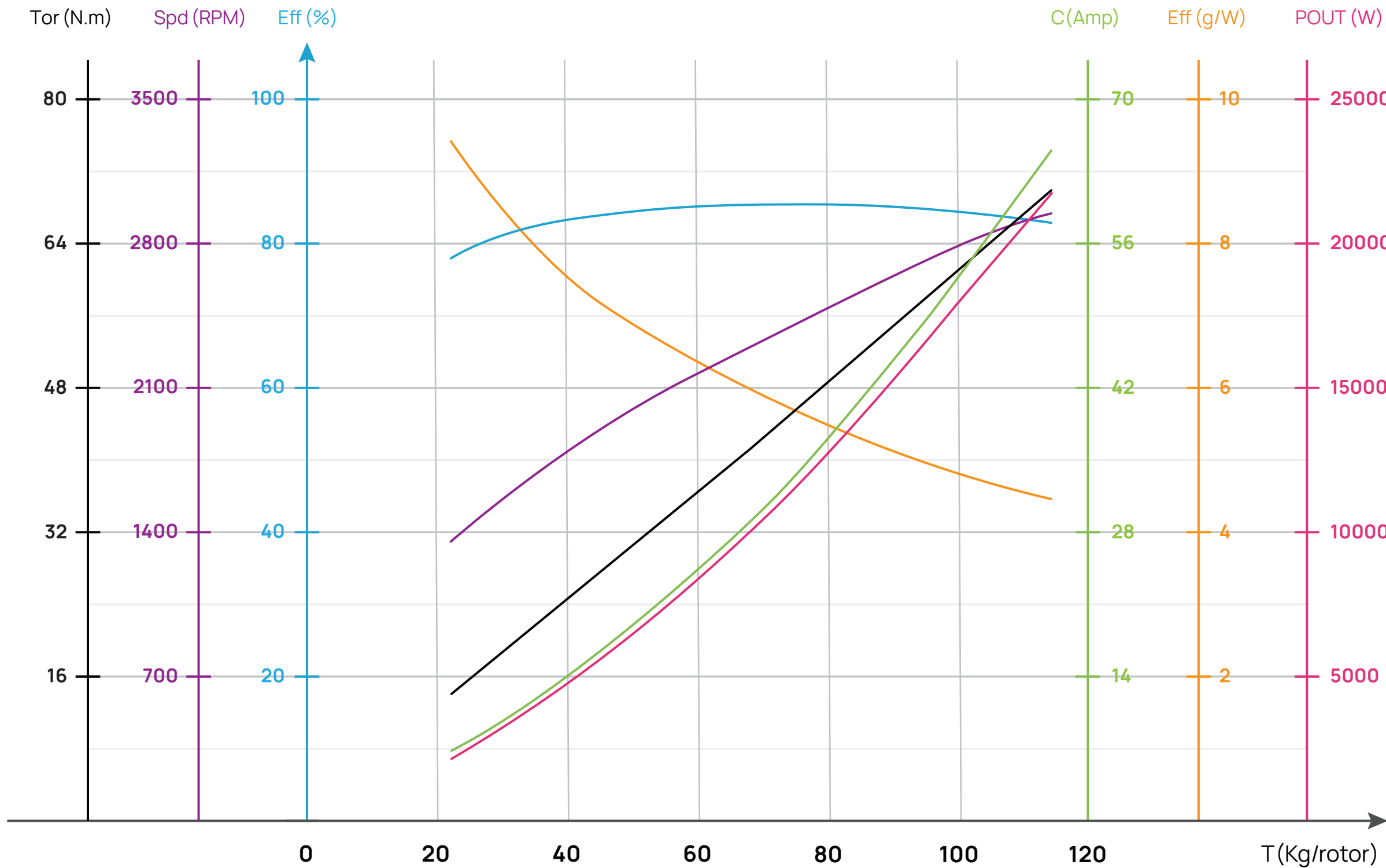
以下数据为好盈实验室于室温 25°C、海平面高度，变化油门输入调节测得，电机温度为推荐拉力下持续运行5分钟数据，仅供参考。  
The below data was measured by HOBBYWING Laboratory at room temperature 25°C, at sea level, with varying throttle input.  
The motor temperature is measured after running for 5 minutes at rated thrust, for reference only.

# P65V-11KV & VSC 60x20



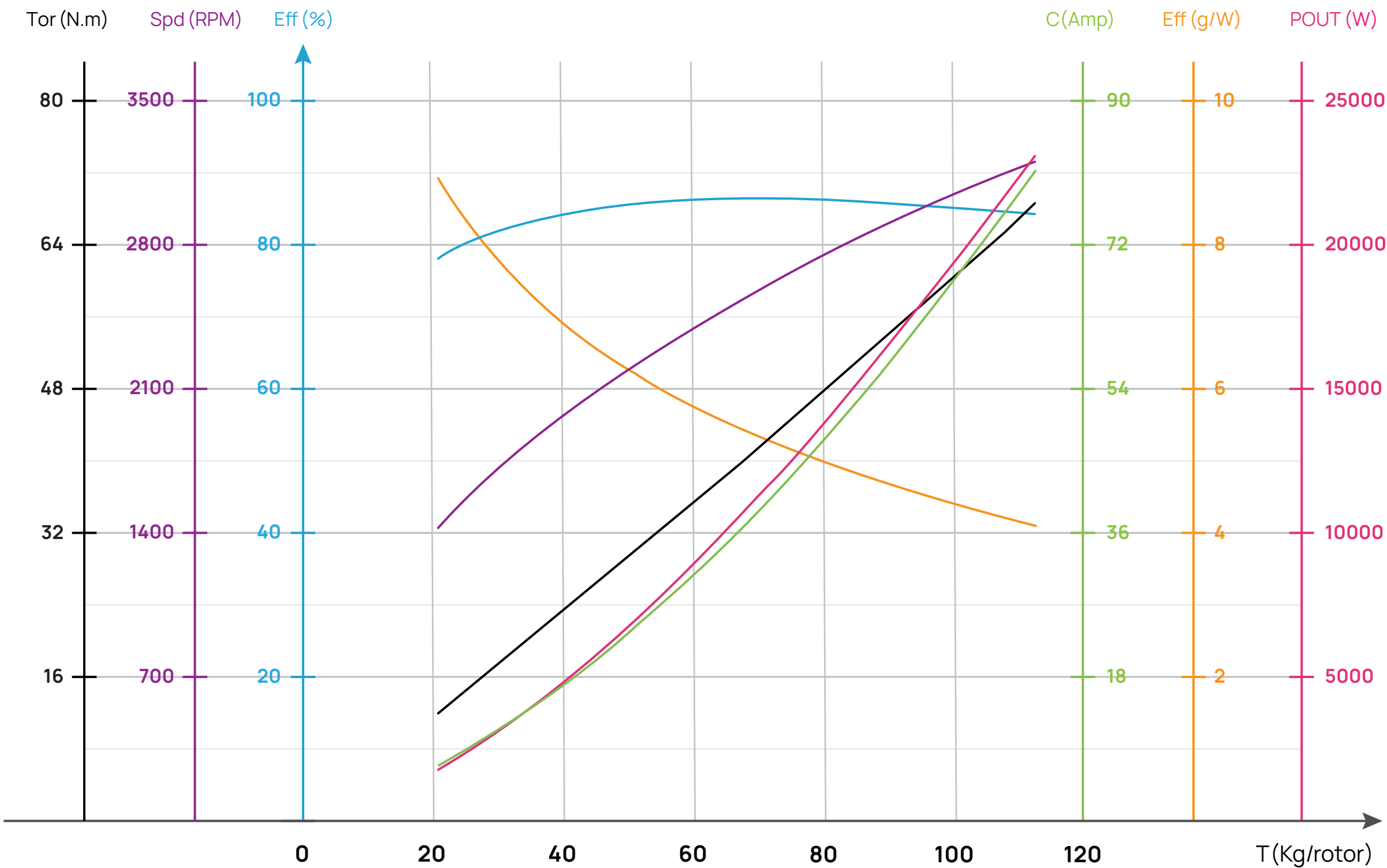
| Voltage(V)<br>工作电压 | Propeller<br>螺旋桨 | Throttle(%)<br>油门 | Thrust(g)<br>拉力 | Current(A)<br>电流 | Input Power(W)<br>输入功率 | Speed(RPM)<br>转速 | Efficiency(g/W)<br>力效 | Torque(N·m)<br>扭矩 | Output Power(W)<br>输出功率 | Temperature(°C)<br>电机机壳温度 |
|--------------------|------------------|-------------------|-----------------|------------------|------------------------|------------------|-----------------------|-------------------|-------------------------|---------------------------|
| 335V               | VSC 60x20        | 33%               | 24355           | 7.7              | 2590.5                 | 1386             | 9.4                   | 14.31             | 2076.8                  | 87°C                      |
|                    |                  | 35%               | 27794           | 9.3              | 3105.6                 | 1481             | 8.9                   | 16.33             | 2532.6                  |                           |
|                    |                  | 37%               | 31375           | 11.0             | 3675.3                 | 1574             | 8.5                   | 18.45             | 3040.5                  |                           |
|                    |                  | 39%               | 35078           | 12.8             | 4298.9                 | 1663             | 8.2                   | 20.65             | 3595.3                  |                           |
|                    |                  | 42%               | 40817           | 15.9             | 5331.5                 | 1792             | 7.7                   | 24.07             | 4517.4                  |                           |
|                    |                  | 45%               | 46718           | 19.3             | 6474.9                 | 1914             | 7.2                   | 27.62             | 5536.0                  |                           |
|                    |                  | 48%               | 52718           | 23.0             | 7720.3                 | 2030             | 6.8                   | 31.25             | 6643.3                  |                           |
|                    |                  | 51%               | 58756           | 27.0             | 9057.8                 | 2140             | 6.5                   | 34.93             | 7827.4                  |                           |
|                    |                  | 54%               | 64775           | 31.3             | 10475.5                | 2245             | 6.2                   | 38.62             | 9078.8                  |                           |
|                    |                  | 57%               | 70721           | 35.7             | 11960.0                | 2344             | 5.9                   | 42.29             | 10379.3                 |                           |
|                    |                  | 60%               | 76540           | 40.3             | 13496.2                | 2437             | 5.7                   | 45.90             | 11712.7                 |                           |
|                    |                  | 63%               | 82184           | 45.0             | 15066.5                | 2524             | 5.5                   | 49.42             | 13061.5                 |                           |
|                    |                  | 66%               | 87605           | 49.7             | 16651.2                | 2604             | 5.3                   | 52.82             | 14402.1                 |                           |
|                    |                  | 69%               | 92757           | 54.4             | 18228.5                | 2677             | 5.1                   | 56.06             | 15714.7                 |                           |
|                    |                  | 72%               | 97598           | 59.0             | 19774.6                | 2744             | 4.9                   | 59.11             | 16985.4                 |                           |
|                    |                  | 75%               | 102087          | 63.5             | 21264.1                | 2804             | 4.8                   | 61.95             | 18189.1                 |                           |
|                    |                  | 78%               | 106183          | 67.7             | 22670.8                | 2858             | 4.7                   | 64.54             | 19313.5                 |                           |
| 81%                | 109849           | 71.5              | 23968.0         | 2905             | 4.6                    | 66.85            | 20334.3               |                   |                         |                           |
| 84%                | 113049           | 75.0              | 25129.8         | 2946             | 4.5                    | 68.86            | 21242.4               |                   |                         |                           |
| 87%                | 115749           | 78.0              | 26130.9         | 2981             | 4.4                    | 70.55            | 22023.2               |                   |                         |                           |
| 100%               | 116531           | 78.9              | 26424.7         | 2991             | 4.4                    | 71.04            | 22250.4               |                   |                         |                           |

# P65V-11KV & VSC 60x20



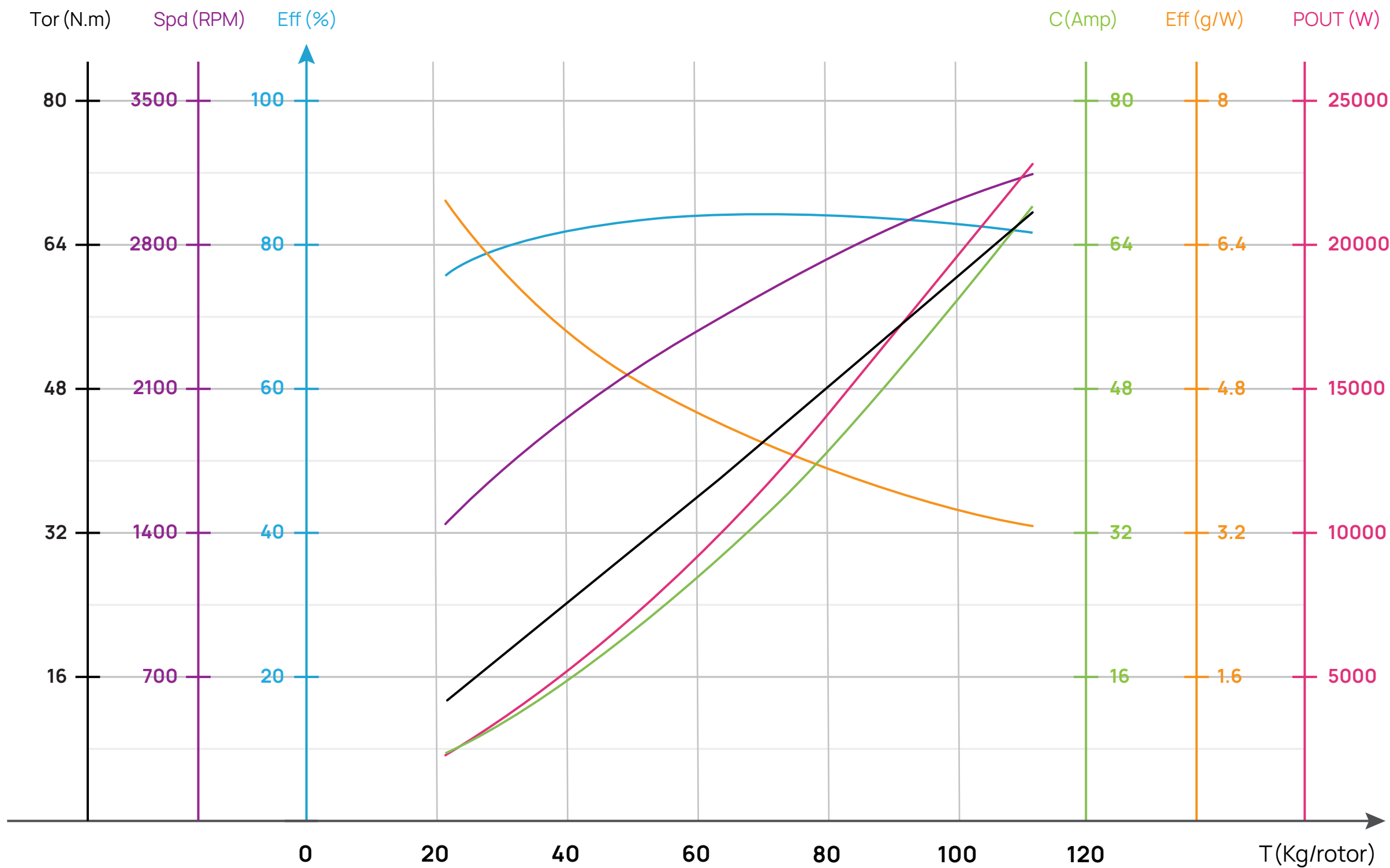
| Voltage(V)<br>工作电压 | Propeller<br>螺旋桨 | Throttle(%)<br>油门 | Thrust(g)<br>拉力 | Current(A)<br>电流 | Input Power(W)<br>输入功率 | Speed(RPM)<br>转速 | Efficiency(g/W)<br>力效 | Torque(N·m)<br>扭矩 | Output Power(W)<br>输出功率 | Temperature(°C)<br>电机机壳温度 |
|--------------------|------------------|-------------------|-----------------|------------------|------------------------|------------------|-----------------------|-------------------|-------------------------|---------------------------|
| 400V               | VSC 60x20        | 33%               | 24252           | 6.5              | 2613.6                 | 1387             | 9.3                   | 14.29             | 2074.9                  | 89°C                      |
|                    |                  | 35%               | 27683           | 7.8              | 3128.6                 | 1480             | 8.8                   | 16.33             | 2530.4                  |                           |
|                    |                  | 37%               | 31272           | 9.3              | 3705.1                 | 1572             | 8.4                   | 18.46             | 3038.0                  |                           |
|                    |                  | 39%               | 34997           | 10.8             | 4339.1                 | 1662             | 8.1                   | 20.66             | 3595.6                  |                           |
|                    |                  | 42%               | 40798           | 13.5             | 5388.5                 | 1793             | 7.6                   | 24.09             | 4523.1                  |                           |
|                    |                  | 45%               | 46790           | 16.4             | 6544.6                 | 1916             | 7.1                   | 27.64             | 5546.0                  |                           |
|                    |                  | 48%               | 52899           | 19.5             | 7796.8                 | 2033             | 6.8                   | 31.28             | 6659.6                  |                           |
|                    |                  | 51%               | 59049           | 22.8             | 9137.3                 | 2142             | 6.5                   | 34.98             | 7845.3                  |                           |
|                    |                  | 54%               | 65167           | 26.4             | 10559.2                | 2245             | 6.2                   | 38.69             | 9095.0                  |                           |
|                    |                  | 57%               | 71180           | 30.1             | 12053.0                | 2342             | 5.9                   | 42.38             | 10392.2                 |                           |
|                    |                  | 60%               | 77023           | 34.0             | 13604.3                | 2434             | 5.7                   | 46.00             | 11722.9                 |                           |
|                    |                  | 63%               | 82633           | 38.0             | 15191.9                | 2522             | 5.4                   | 49.50             | 13072.8                 |                           |
|                    |                  | 66%               | 87959           | 42.0             | 16788.6                | 2604             | 5.2                   | 52.85             | 14411.8                 |                           |
|                    |                  | 69%               | 92958           | 45.9             | 18362.6                | 2679             | 5.1                   | 56.01             | 15712.8                 |                           |
|                    |                  | 72%               | 97596           | 49.7             | 19881.7                | 2747             | 4.9                   | 58.95             | 16955.4                 |                           |
|                    |                  | 75%               | 101855          | 53.3             | 21317.1                | 2807             | 4.8                   | 61.63             | 18115.8                 |                           |
|                    |                  | 78%               | 105731          | 56.6             | 22646.8                | 2858             | 4.7                   | 64.07             | 19173.3                 |                           |
| 81%                | 109236           | 59.6              | 23858.5         | 2901             | 4.6                    | 66.25            | 20125.1               |                   |                         |                           |
| 84%                | 112399           | 62.4              | 24951.0         | 2935             | 4.5                    | 68.20            | 20961.0               |                   |                         |                           |
| 87%                | 115272           | 64.8              | 25934.1         | 2962             | 4.4                    | 69.96            | 21697.3               |                   |                         |                           |
| 100%               | 116176           | 65.6              | 26240.6         | 2970             | 4.4                    | 70.50            | 21926.1               |                   |                         |                           |

# P65V-11KV & USC 54×23



| Voltage(V)<br>工作电压 | Propeller<br>螺旋桨 | Throttle(%)<br>油门 | Thrust(g)<br>拉力 | Current(A)<br>电流 | Input Power(W)<br>输入功率 | Speed(RPM)<br>转速 | Efficiency(g/W)<br>力效 | Torque(N·m)<br>扭矩 | Output Power(W)<br>输出功率 | Temperature(°C)<br>电机机壳温度 |
|--------------------|------------------|-------------------|-----------------|------------------|------------------------|------------------|-----------------------|-------------------|-------------------------|---------------------------|
| 335V               | USC 54×23        | 33%               | 22163           | 7.6              | 2532.7                 | 1487             | 8.8                   | 12.90             | 2009.3                  | 90°C                      |
|                    |                  | 35%               | 25389           | 9.1              | 3046.0                 | 1589             | 8.3                   | 14.79             | 2461.3                  |                           |
|                    |                  | 37%               | 28798           | 10.8             | 3625.0                 | 1691             | 7.9                   | 16.80             | 2974.5                  |                           |
|                    |                  | 39%               | 32358           | 12.7             | 4266.6                 | 1790             | 7.6                   | 18.90             | 3543.3                  |                           |
|                    |                  | 42%               | 37913           | 15.9             | 5337.2                 | 1934             | 7.1                   | 22.21             | 4498.1                  |                           |
|                    |                  | 45%               | 43650           | 19.5             | 6525.9                 | 2070             | 6.7                   | 25.65             | 5560.2                  |                           |
|                    |                  | 48%               | 49496           | 23.3             | 7819.8                 | 2198             | 6.3                   | 29.18             | 6716.2                  |                           |
|                    |                  | 51%               | 55388           | 27.5             | 9208.1                 | 2318             | 6.0                   | 32.76             | 7951.5                  |                           |
|                    |                  | 54%               | 61275           | 31.9             | 10680.7                | 2431             | 5.7                   | 36.36             | 9254.5                  |                           |
|                    |                  | 56%               | 65173           | 34.9             | 11704.4                | 2503             | 5.6                   | 38.75             | 10155.6                 |                           |
|                    |                  | 60%               | 72850           | 41.3             | 13838.0                | 2638             | 5.3                   | 43.48             | 12011.8                 |                           |
|                    |                  | 63%               | 78456           | 46.3             | 15497.4                | 2732             | 5.1                   | 46.97             | 13436.0                 |                           |
|                    |                  | 66%               | 83886           | 51.3             | 17187.6                | 2820             | 4.9                   | 50.36             | 14870.5                 |                           |
|                    |                  | 69%               | 89094           | 56.4             | 18884.7                | 2901             | 4.7                   | 53.63             | 16292.4                 |                           |
|                    |                  | 72%               | 94030           | 61.4             | 20559.0                | 2975             | 4.6                   | 56.76             | 17681.0                 |                           |
|                    |                  | 75%               | 98634           | 66.2             | 22174.3                | 3041             | 4.4                   | 59.69             | 19007.4                 |                           |
|                    |                  | 78%               | 102836          | 70.7             | 23688.3                | 3098             | 4.3                   | 62.39             | 20238.0                 |                           |
| 81%                | 106549           | 74.8              | 25053.6         | 3145             | 4.3                    | 64.79            | 21335.0               |                   |                         |                           |
| 84%                | 109674           | 78.3              | 26218.3         | 3183             | 4.2                    | 66.82            | 22269.9               |                   |                         |                           |
| 87%                | 112092           | 81.0              | 27126.4         | 3211             | 4.1                    | 68.40            | 22997.1               |                   |                         |                           |
| 100%               | 112716           | 81.7              | 27361.9         | 3218             | 4.1                    | 68.81            | 23185.3               |                   |                         |                           |

# P65V-11KV & USC 54×23



| Voltage(V)<br>工作电压 | Propeller<br>螺旋桨 | Throttle(%)<br>油门 | Thrust(g)<br>拉力 | Current(A)<br>电流 | Input Power(W)<br>输入功率 | Speed(RPM)<br>转速 | Efficiency(g/W)<br>力效 | Torque(N·m)<br>扭矩 | Output Power(W)<br>输出功率 | Temperature(°C)<br>电机机壳温度 |
|--------------------|------------------|-------------------|-----------------|------------------|------------------------|------------------|-----------------------|-------------------|-------------------------|---------------------------|
| 400V               | USC 54×23        | 33%               | 22233           | 6.4              | 2577.3                 | 1487             | 8.6                   | 12.93             | 2013.1                  | 92°C                      |
|                    |                  | 35%               | 25510           | 7.7              | 3096.2                 | 1590             | 8.2                   | 14.84             | 2470.4                  |                           |
|                    |                  | 37%               | 28943           | 9.2              | 3684.7                 | 1691             | 7.9                   | 16.86             | 2986.1                  |                           |
|                    |                  | 39%               | 32504           | 10.8             | 4336.8                 | 1790             | 7.5                   | 18.99             | 3558.5                  |                           |
|                    |                  | 42%               | 38033           | 13.6             | 5420.3                 | 1933             | 7.0                   | 22.30             | 4513.3                  |                           |
|                    |                  | 45%               | 43720           | 16.5             | 6613.4                 | 2069             | 6.6                   | 25.72             | 5571.5                  |                           |
|                    |                  | 48%               | 49499           | 19.8             | 7901.9                 | 2197             | 6.3                   | 29.20             | 6716.5                  |                           |
|                    |                  | 51%               | 55312           | 23.2             | 9276.3                 | 2318             | 6.0                   | 32.70             | 7937.8                  |                           |
|                    |                  | 54%               | 61107           | 26.8             | 10731.0                | 2431             | 5.7                   | 36.22             | 9219.9                  |                           |
|                    |                  | 56%               | 64937           | 29.4             | 11743.1                | 2503             | 5.5                   | 38.56             | 10106.8                 |                           |
|                    |                  | 60%               | 72465           | 34.6             | 13859.7                | 2638             | 5.2                   | 43.22             | 11938.9                 |                           |
|                    |                  | 63%               | 77950           | 38.8             | 15515.2                | 2732             | 5.0                   | 46.67             | 13351.7                 |                           |
|                    |                  | 66%               | 83258           | 43.0             | 17209.8                | 2820             | 4.8                   | 50.06             | 14782.0                 |                           |
|                    |                  | 69%               | 88357           | 47.3             | 18919.3                | 2901             | 4.7                   | 53.35             | 16205.9                 |                           |
|                    |                  | 72%               | 93213           | 51.5             | 20613.1                | 2974             | 4.5                   | 56.50             | 17594.8                 |                           |
|                    |                  | 75%               | 97792           | 55.6             | 22256.4                | 3040             | 4.4                   | 59.47             | 18929.3                 |                           |
|                    |                  | 78%               | 102057          | 59.5             | 23812.3                | 3097             | 4.3                   | 62.20             | 20170.6                 |                           |
|                    |                  | 81%               | 105970          | 63.1             | 25244.6                | 3145             | 4.2                   | 64.65             | 21292.0                 |                           |
| 84%                | 109488           | 66.3              | 26520.7         | 3185             | 4.1                    | 66.80            | 22276.8               |                   |                         |                           |
| 87%                | 112562           | 69.0              | 27614.1         | 3216             | 4.1                    | 68.59            | 23099.2               |                   |                         |                           |
| 100%               | 113479           | 69.8              | 27934.3         | 3224             | 4.1                    | 69.11            | 23332.2               |                   |                         |                           |