

# SPECIFICATION

|             |                                                 |
|-------------|-------------------------------------------------|
| PART NO.    | T10Plus                                         |
| VER         | V1.1                                            |
| DESCRIPTION | Model 10020-15 Integrated Power System for UAVs |
| DATE        | 2026/07/31                                      |
| Prepared By |                                                 |
| Checked By  |                                                 |
| Approved By |                                                 |

| Version | Date       | Version Update Record              | Revised By |
|---------|------------|------------------------------------|------------|
| V1.0    | 2026/01/14 | Basic information of specification | Huang Chen |
| V1.1    | 2026/07/31 | Modify parameters                  | Huang Chen |
|         |            |                                    |            |
|         |            |                                    |            |
|         |            |                                    |            |
|         |            |                                    |            |
|         |            |                                    |            |

Customer acknowledged by

## 1.Scope of application

This specification applies to the T10Plus UAV Power System

## 2.Terms of Use

| Project             | Specifications                                  |           | Conditions/Notes |
|---------------------|-------------------------------------------------|-----------|------------------|
| Rated Voltage       | 14S                                             | 18S       |                  |
| Voltage Range       | 50V ~ 63V                                       | 64V ~ 81V |                  |
| KV price            | 90KV                                            | 71KV      |                  |
| Working Pulse Width | 1050 ~ 1950                                     |           |                  |
| Service Environment | Temperature : -20 ~ 40°C<br>Humidity: 10-90% RH |           |                  |
| Storage Environment | Temperature : -40 ~ 80°C<br>Humidity: 5-95%RH   |           |                  |

## 3.Testing Conditions

| Project                                                                                                                                                                                                              | Specifications                             |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|
| Temperature                                                                                                                                                                                                          | 25±2°C                                     |
| Humidity                                                                                                                                                                                                             | 65±20%                                     |
| Motor state                                                                                                                                                                                                          | Output shaft placed parallel to the ground |
| All data were tested under the following conditions:<br>Test at 25°C with 65% RH. If any inconsistency occurs, testing may also be performed under the following conditions: temperature 5-35°C; humidity 45-85% RH. |                                            |

## 4. Mechanical Requirements

| Project            | Specifications                                     |                 |                   | Conditions/Notes                                                           |
|--------------------|----------------------------------------------------|-----------------|-------------------|----------------------------------------------------------------------------|
| Structure          | According to the motor's structural specifications |                 |                   | Subject to the assembly drawing                                            |
| Weight             | 36120 propeller                                    | 40132 propeller | 43-inch propeller | With wires and propeller                                                   |
|                    | 1876±50g                                           | 2025±50g        | 1976±50g          |                                                                            |
| Appearance         | No mechanical damage/No adverse corrosion          |                 |                   | Visual inspection (Acceptable range and limits are subject to the sample.) |
| Shaft Clearance    | 0.03mm                                             |                 |                   | Dial gauge                                                                 |
| Angle of Rotation  | 360°                                               |                 |                   |                                                                            |
| Rotation Direction | CW/CCW                                             |                 |                   |                                                                            |

## 5. Performance Characteristics

| Item                       | Specifications                                 |                 |                   | Conditions/Notes                                                                                                                               |
|----------------------------|------------------------------------------------|-----------------|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Rated Current              | 45A                                            |                 |                   | Good heat dissipation conditions                                                                                                               |
| Peak current               | 150A                                           |                 |                   | ≤ 10 seconds under good heat dissipation conditions                                                                                            |
| PWM Input Signal level     | 3.3V/5V                                        |                 |                   |                                                                                                                                                |
| PWM Input Signal Frequency | 50Hz-500Hz                                     |                 |                   |                                                                                                                                                |
| Communication Method       | CAN                                            |                 |                   |                                                                                                                                                |
| No-Load Speed              | 14S                                            | 18S             |                   | 25V Comprehensive Motor Tester                                                                                                                 |
|                            | 2050 ~ 2270                                    | 1520 ~ 1680     |                   |                                                                                                                                                |
| No-Load Current            | 2.15±0.3A                                      | 1.4±0.3A        |                   |                                                                                                                                                |
| Resistance                 | 38.5mΩ±5%                                      | 54.5mΩ±5%       |                   | Resistance varies with ambient temperature. If batch resistance exceeds the standard range due to environmental changes, re-sign the standard. |
| Inductor                   | 46.35μH±10%                                    | 70μH±10%        |                   |                                                                                                                                                |
| Wire length and Terminals  | Exposure: 1500mm –10# ultra-soft silicone wire |                 |                   |                                                                                                                                                |
| Rated Thrust               | 36120 propeller                                | 40132 propeller | 43-inch propeller | Excellent Heat Dissipation                                                                                                                     |
|                            | 13kg                                           | 14kg            |                   |                                                                                                                                                |
| Maximum Thrust             | 28kg                                           | 30kg            |                   | Good heat dissipation conditions, short-term operation                                                                                         |
| Levels of Protection       | IPX5 rating for the entire device              |                 |                   |                                                                                                                                                |

## 6. Reliability Test

| Item                                                  | Test Standards Conditions                                                                       | Determination Characteristic                                  |
|-------------------------------------------------------|-------------------------------------------------------------------------------------------------|---------------------------------------------------------------|
| Life Test                                             | Voltage/DC: 54<br>Load: 36120 inches (well-cooled)<br>Operating condition: Rated condition 200h | Meet the requirements specified in the "Acceptance Criteria." |
| High Temperature Storage Experiment                   | Temperature : 80°C<br>Time: 48 hours                                                            |                                                               |
| Low Temperature Storage Experiment                    | Temperature : -20°C<br>Time: 48 hours                                                           |                                                               |
| High Temperature Operation Test                       | Temperature : 70±2°C<br>Time: 24 hours                                                          |                                                               |
| Low Temperature Operation Test                        | Temperature : -20±5°C<br>Time: 24 hours                                                         |                                                               |
| High Temperature and High Humidity Storage Experiment | Humidity: 90%RH<br>Time: 48 hours<br>dry condensation                                           |                                                               |

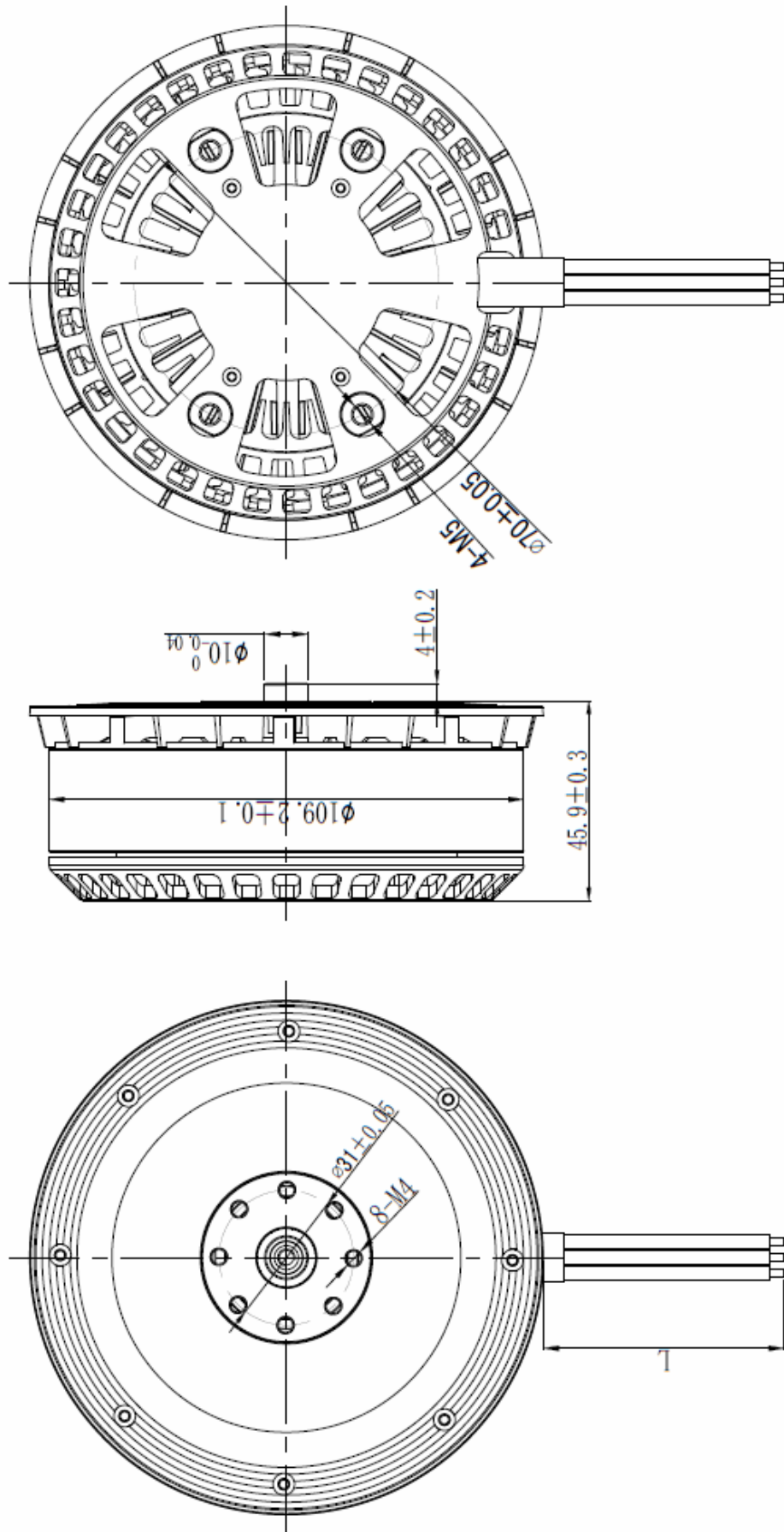
## 7. Determination characteristics

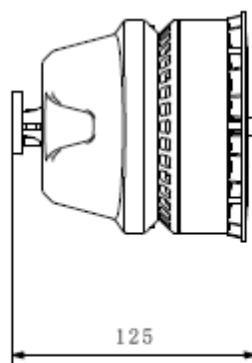
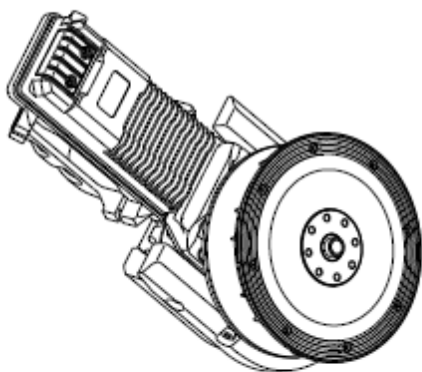
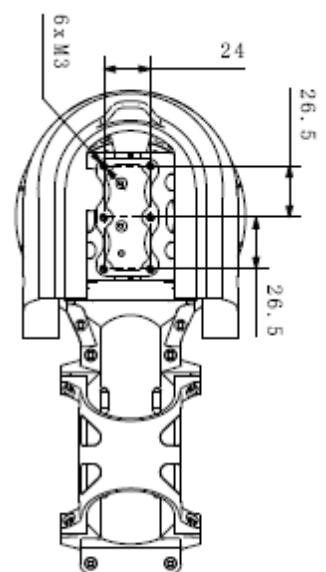
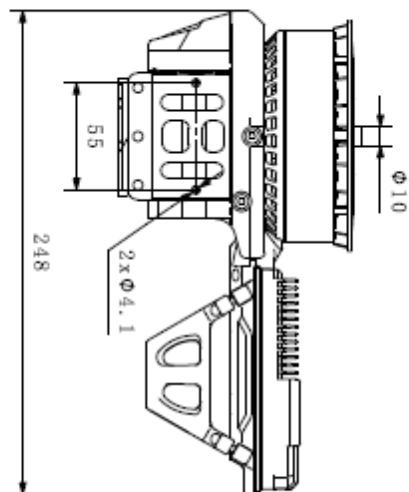
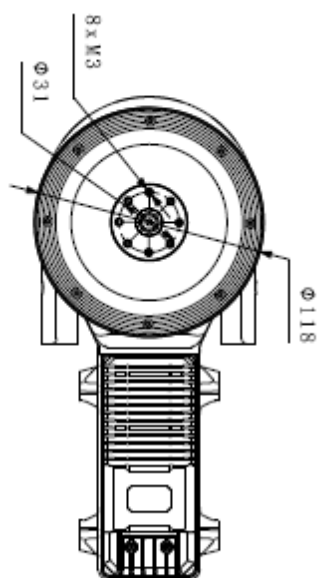
| Item    | Determination Characteristic                                                             |
|---------|------------------------------------------------------------------------------------------|
| Table A | 1. The load speed variation shall be within ±30% of the initial value.                   |
|         | 2. The load current variation shall be within ±30% of the initial value.                 |
|         | 3. The resistance variation between terminals shall be within ±30% of the initial value. |
|         | 4. Standard Test Conditions                                                              |

## 8. Precautions

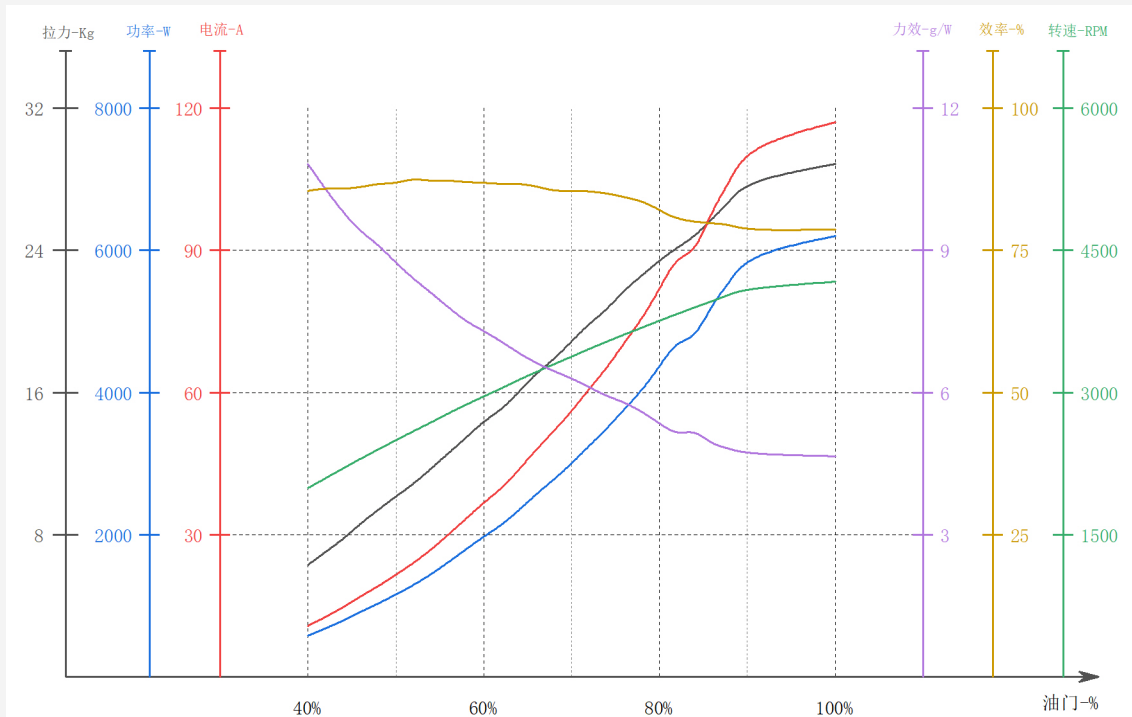
1. Handle the motor with care during transportation to prevent damage to its casing and performance from impacts or collisions.
2. The motor should be stored away from high temperatures, moisture, and chemical corrosion, with a storage period not exceeding 6 months.
3. Avoid frequently blocking the motor shaft after power connection.
4. The welding must be completed within 5 seconds to prevent damage to the terminals or wires.

## Mechanical dimensions

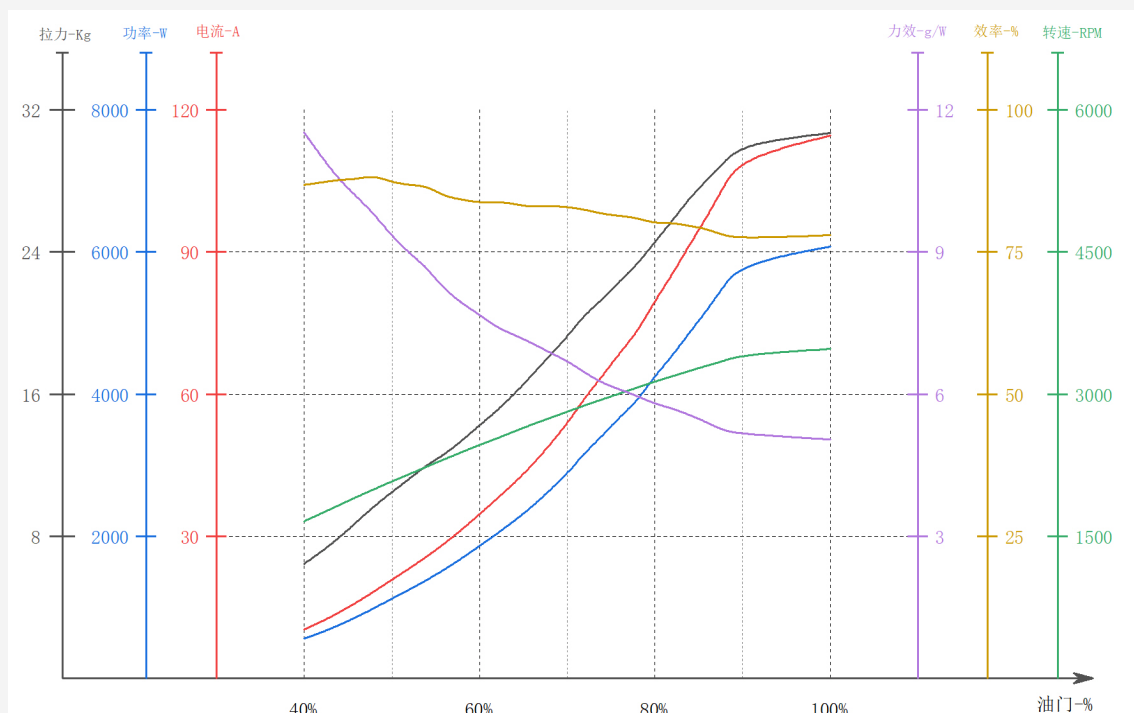




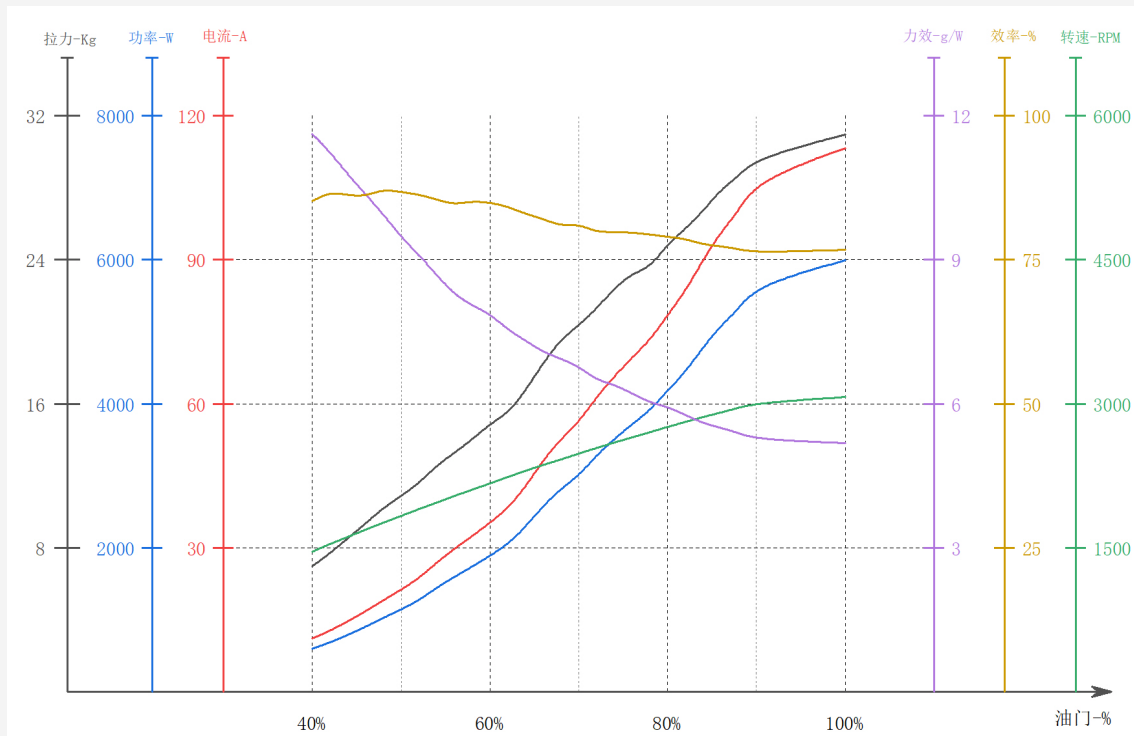
# Test Data



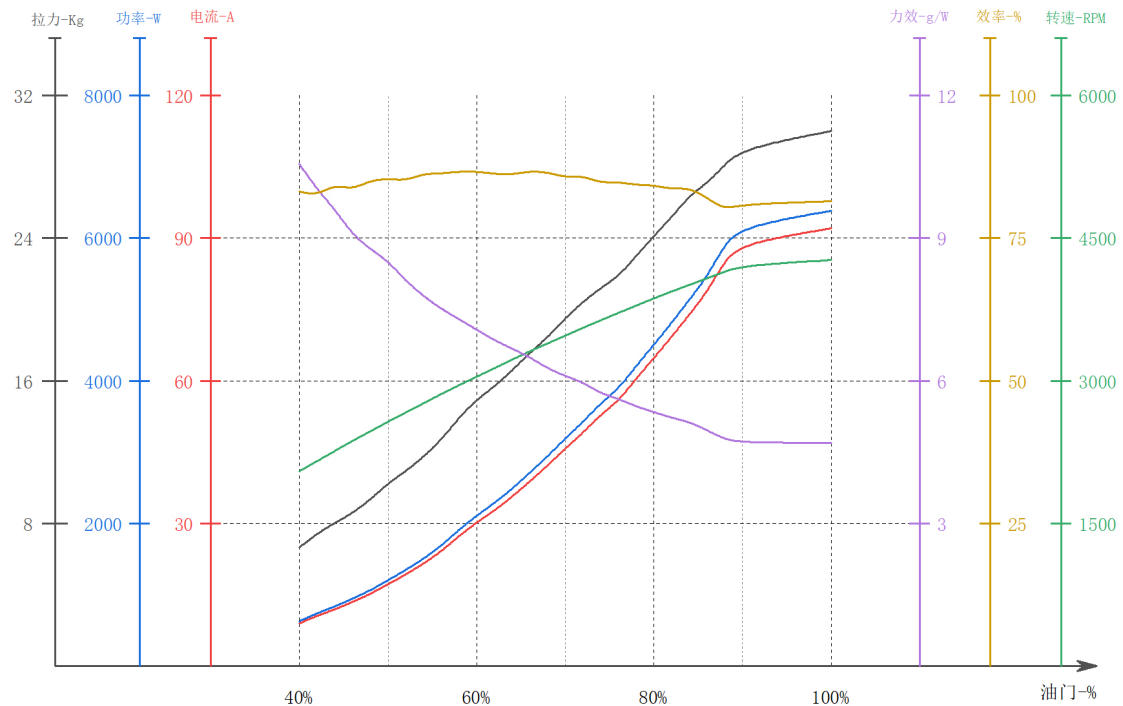
| voltage -V | Propeller | Throttle -% | Thrust-kg | Current -A | Power -W | Speed -RPM | Power-efficiency-g/W | Productive ness -% |
|------------|-----------|-------------|-----------|------------|----------|------------|----------------------|--------------------|
| 54         | 36120     | 40%         | 6.3       | 10.8       | 582.8    | 1993.0     | 10.8                 | 85.5               |
|            |           | 42%         | 7.0       | 12.6       | 682.3    | 2096.8     | 10.3                 | 85.9               |
|            |           | 44%         | 7.8       | 14.7       | 791.5    | 2199.8     | 9.8                  | 85.8               |
|            |           | 46%         | 8.6       | 17.0       | 916.1    | 2300.8     | 9.4                  | 86.1               |
|            |           | 48%         | 9.4       | 19.1       | 1028.7   | 2399.5     | 9.1                  | 86.8               |
|            |           | 50%         | 10.2      | 21.6       | 1160.1   | 2496.2     | 8.7                  | 86.7               |
|            |           | 52%         | 10.9      | 24.0       | 1292.7   | 2593.5     | 8.4                  | 87.7               |
|            |           | 54%         | 11.7      | 26.9       | 1447.1   | 2686.6     | 8.1                  | 87.1               |
|            |           | 56%         | 12.6      | 30.0       | 1615.0   | 2779.8     | 7.8                  | 87.3               |
|            |           | 58%         | 13.4      | 33.3       | 1794.0   | 2870.4     | 7.5                  | 87.0               |
|            |           | 60%         | 14.4      | 36.8       | 1976.5   | 2958.6     | 7.3                  | 86.9               |
|            |           | 62%         | 15.0      | 39.7       | 2134.2   | 3046.3     | 7.1                  | 86.7               |
|            |           | 64%         | 16.0      | 43.6       | 2341.7   | 3132.8     | 6.8                  | 86.8               |
|            |           | 66%         | 17.1      | 48.0       | 2573.2   | 3216.4     | 6.6                  | 86.3               |
|            |           | 68%         | 17.9      | 51.8       | 2776.1   | 3297.8     | 6.5                  | 85.4               |
|            |           | 70%         | 18.9      | 56.1       | 3003.2   | 3379.4     | 6.3                  | 85.5               |
|            |           | 72%         | 19.9      | 60.7       | 3248.7   | 3458.2     | 6.1                  | 85.4               |
|            |           | 74%         | 20.6      | 65.1       | 3478.5   | 3535.0     | 5.9                  | 85.1               |
|            |           | 76%         | 21.8      | 70.5       | 3770.8   | 3611.2     | 5.8                  | 84.4               |
|            |           | 78%         | 22.6      | 75.6       | 4031.0   | 3684.5     | 5.6                  | 83.7               |
|            |           | 80%         | 23.4      | 81.7       | 4358.4   | 3755.8     | 5.4                  | 82.2               |
| 54         | 36120     | 82%         | 24.1      | 88.8       | 4728.7   | 3826.9     | 5.1                  | 80.4               |
|            |           | 84%         | 24.8      | 89.2       | 4744.7   | 3896.8     | 5.2                  | 83.6               |
|            |           | 86%         | 25.8      | 98.8       | 5255.0   | 3965.6     | 4.9                  | 79.7               |
|            |           | 88%         | 26.7      | 104.3      | 5537.8   | 4033.4     | 4.8                  | 79.6               |
|            |           | 90%         | 27.9      | 112.0      | 5939.2   | 4099.5     | 4.7                  | 78.4               |
|            |           | 100%        | 28.9      | 117.0      | 6200.5   | 4169.4     | 4.7                  | 78.7               |



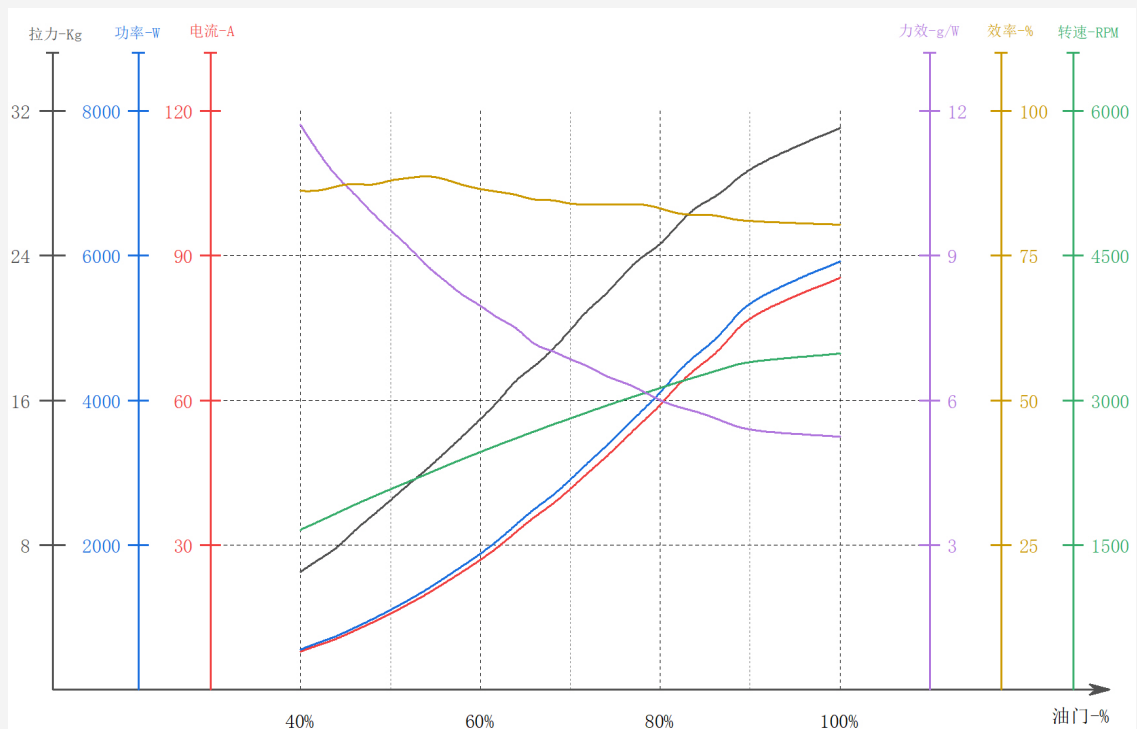
| voltage -V | Propeller | Throttle -% | Thrust-kg | Current -A | Power -W | Speed -RPM | Power-efficiency-g/W | Productiveness -% |
|------------|-----------|-------------|-----------|------------|----------|------------|----------------------|-------------------|
| 54         | 40132     | 40%         | 6.4       | 10.4       | 559.5    | 1657.4     | 11.5                 | 86.8              |
|            |           | 42%         | 7.1       | 12.0       | 648.9    | 1744.5     | 11.0                 | 87.2              |
|            |           | 44%         | 7.9       | 13.9       | 752.3    | 1830.6     | 10.5                 | 87.7              |
|            |           | 46%         | 8.8       | 16.0       | 862.7    | 1914.2     | 10.2                 | 87.8              |
|            |           | 48%         | 9.7       | 18.3       | 989.0    | 1997.3     | 9.8                  | 88.5              |
|            |           | 50%         | 10.5      | 20.8       | 1122.3   | 2077.8     | 9.3                  | 87.3              |
|            |           | 52%         | 11.2      | 23.2       | 1250.9   | 2157.8     | 9.0                  | 86.8              |
|            |           | 54%         | 12.0      | 25.8       | 1388.5   | 2236.8     | 8.7                  | 86.6              |
|            |           | 56%         | 12.6      | 28.4       | 1531.1   | 2312.8     | 8.2                  | 84.8              |
|            |           | 58%         | 13.4      | 31.4       | 1690.4   | 2388.2     | 7.9                  | 84.2              |
|            |           | 60%         | 14.2      | 34.6       | 1863.0   | 2463.5     | 7.7                  | 83.7              |
|            |           | 62%         | 15.1      | 38.0       | 2040.4   | 2535.6     | 7.4                  | 83.9              |
|            |           | 64%         | 16.0      | 41.3       | 2216.2   | 2606.8     | 7.3                  | 83.5              |
|            |           | 66%         | 17.1      | 44.9       | 2412.9   | 2678.2     | 7.1                  | 82.9              |
|            |           | 68%         | 18.2      | 49.3       | 2643.3   | 2747.0     | 6.9                  | 83.2              |
|            |           | 70%         | 19.2      | 53.8       | 2883.6   | 2815.3     | 6.7                  | 82.9              |
|            |           | 72%         | 20.5      | 59.2       | 3168.4   | 2880.1     | 6.5                  | 82.5              |
|            |           | 74%         | 21.3      | 63.7       | 3409.0   | 2943.8     | 6.2                  | 81.7              |
|            |           | 76%         | 22.3      | 68.7       | 3674.1   | 3006.3     | 6.1                  | 81.4              |
|            |           | 78%         | 23.3      | 73.2       | 3910.5   | 3069.0     | 6.0                  | 81.0              |
|            |           | 80%         | 24.5      | 79.6       | 4249.6   | 3130.0     | 5.8                  | 80.0              |
|            |           | 82%         | 25.7      | 85.2       | 4533.4   | 3188.5     | 5.7                  | 80.2              |
|            |           | 84%         | 27.0      | 91.7       | 4874.2   | 3246.0     | 5.6                  | 79.6              |
|            |           | 86%         | 28.1      | 97.6       | 5190.3   | 3303.0     | 5.4                  | 79.0              |
|            |           | 88%         | 29.0      | 104.3      | 5543.1   | 3353.0     | 5.2                  | 77.9              |
|            |           | 90%         | 30.1      | 109.8      | 5834.1   | 3415.6     | 5.2                  | 77.4              |
|            |           | 100%        | 30.7      | 114.6      | 6076.9   | 3478.6     | 5.0                  | 77.9              |



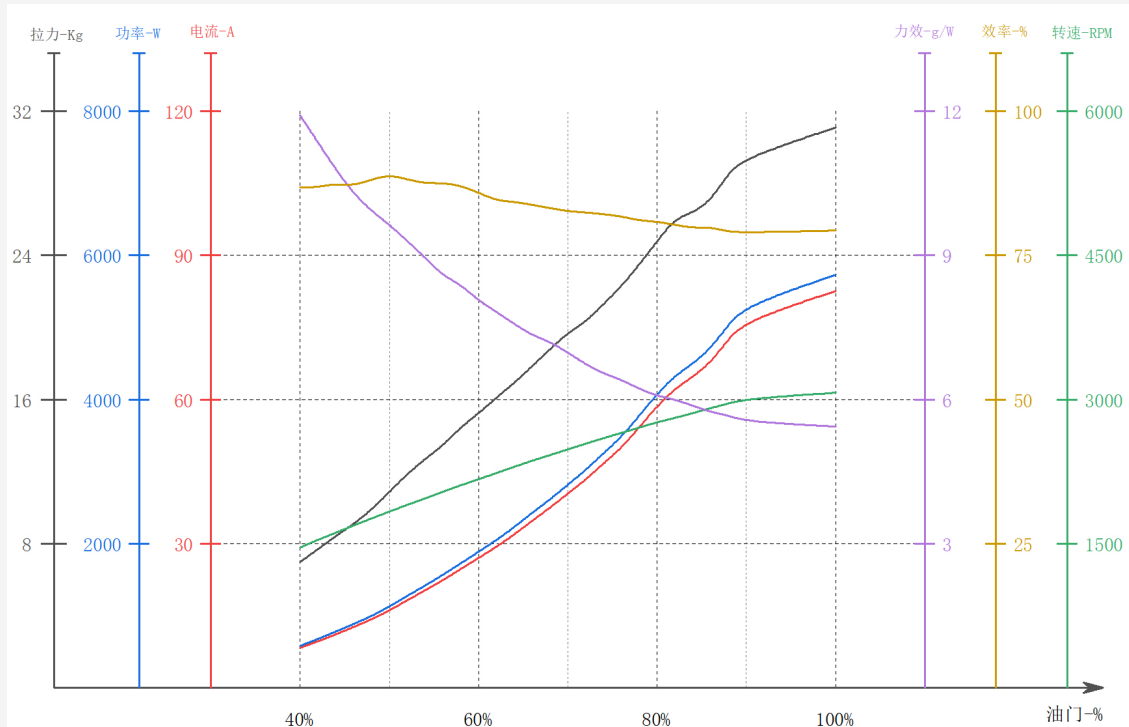
| voltage -V | Propeller | Throttle -% | Thrust-kg | Current -A | Power -W | Speed -RPM | Power-efficiency-g/W | Productiveness -% |
|------------|-----------|-------------|-----------|------------|----------|------------|----------------------|-------------------|
| 54         | 43 寸      | 40%         | 7.0       | 11.1       | 599.6    | 1462.5     | 11.6                 | 85.2              |
|            |           | 42%         | 7.7       | 12.7       | 685.8    | 1539.6     | 11.2                 | 86.8              |
|            |           | 44%         | 8.5       | 14.7       | 793.3    | 1615.0     | 10.8                 | 86.2              |
|            |           | 46%         | 9.3       | 16.7       | 900.1    | 1688.4     | 10.4                 | 86.0              |
|            |           | 48%         | 10.2      | 19.1       | 1027.1   | 1761.0     | 10.0                 | 87.3              |
|            |           | 50%         | 10.9      | 21.3       | 1145.8   | 1832.0     | 9.5                  | 86.7              |
|            |           | 52%         | 11.6      | 23.7       | 1272.5   | 1903.8     | 9.1                  | 86.4              |
|            |           | 54%         | 12.6      | 27.0       | 1452.8   | 1973.0     | 8.7                  | 85.4              |
|            |           | 56%         | 13.3      | 29.8       | 1597.4   | 2039.6     | 8.3                  | 84.6              |
|            |           | 58%         | 14.0      | 32.4       | 1738.7   | 2106.5     | 8.1                  | 85.2              |
|            |           | 60%         | 14.9      | 35.2       | 1889.8   | 2172.0     | 7.9                  | 85.0              |
|            |           | 62%         | 15.5      | 38.3       | 2054.2   | 2237.6     | 7.5                  | 84.2              |
|            |           | 64%         | 16.7      | 42.6       | 2283.7   | 2302.5     | 7.3                  | 83.0              |
|            |           | 66%         | 18.3      | 48.2       | 2581.1   | 2363.4     | 7.1                  | 82.1              |
|            |           | 68%         | 19.6      | 52.7       | 2819.8   | 2420.0     | 6.9                  | 80.8              |
|            |           | 70%         | 20.4      | 56.3       | 3007.4   | 2483.0     | 6.8                  | 81.2              |
|            |           | 72%         | 21.3      | 61.3       | 3275.9   | 2538.4     | 6.5                  | 79.8              |
|            |           | 74%         | 22.4      | 65.7       | 3508.0   | 2595.3     | 6.4                  | 79.9              |
|            |           | 76%         | 23.2      | 69.6       | 3715.1   | 2650.6     | 6.2                  | 79.7              |
|            |           | 78%         | 23.6      | 73.2       | 3909.6   | 2704.5     | 6.0                  | 79.4              |
|            |           | 80%         | 24.8      | 78.4       | 4173.5   | 2759.2     | 5.9                  | 79.0              |
|            |           | 82%         | 25.7      | 83.4       | 4435.7   | 2810.0     | 5.8                  | 78.7              |
|            |           | 84%         | 26.7      | 89.9       | 4780.6   | 2863.0     | 5.6                  | 77.7              |
|            |           | 86%         | 27.9      | 95.8       | 5088.9   | 2909.5     | 5.5                  | 77.3              |
|            |           | 88%         | 28.6      | 99.9       | 5303.6   | 2957.6     | 5.4                  | 76.9              |
|            |           | 90%         | 29.6      | 106.4      | 5640.6   | 3006.6     | 5.3                  | 76.2              |
|            |           | 100%        | 30.9      | 113.3      | 5992.5   | 3073.2     | 5.2                  | 76.8              |



| voltage -V | Propeller | Throttle -% | Thrust-kg | Current -A | Power -W | Speed -RPM | Power-efficiency-g/W | Productiveness -% |
|------------|-----------|-------------|-----------|------------|----------|------------|----------------------|-------------------|
| 70         | 36120     | 40%         | 6.7       | 9.0        | 629.8    | 2050.4     | 10.6                 | 83.2              |
|            |           | 42%         | 7.4       | 10.6       | 744.5    | 2155.5     | 10.0                 | 82.5              |
|            |           | 44%         | 8.0       | 11.9       | 837.3    | 2262.6     | 9.6                  | 84.4              |
|            |           | 46%         | 8.6       | 13.4       | 941.7    | 2365.8     | 9.1                  | 83.5              |
|            |           | 48%         | 9.3       | 15.1       | 1060.4   | 2468.5     | 8.8                  | 85.1              |
|            |           | 50%         | 10.3      | 17.2       | 1205.4   | 2569.0     | 8.5                  | 85.4              |
|            |           | 52%         | 10.9      | 19.3       | 1349.8   | 2667.4     | 8.1                  | 85.0              |
|            |           | 54%         | 11.8      | 21.6       | 1508.2   | 2764.5     | 7.8                  | 86.4              |
|            |           | 56%         | 12.7      | 24.1       | 1683.9   | 2859.8     | 7.5                  | 86.3              |
|            |           | 58%         | 13.9      | 27.3       | 1908.9   | 2953.2     | 7.3                  | 86.7              |
|            |           | 60%         | 14.9      | 30.2       | 2112.5   | 3044.0     | 7.1                  | 86.7              |
|            |           | 62%         | 15.7      | 32.8       | 2288.9   | 3132.8     | 6.9                  | 86.3              |
|            |           | 64%         | 16.6      | 35.6       | 2482.8   | 3221.8     | 6.7                  | 86.1              |
|            |           | 66%         | 17.5      | 38.8       | 2708.4   | 3309.8     | 6.5                  | 86.8              |
|            |           | 68%         | 18.4      | 42.1       | 2939.7   | 3393.4     | 6.3                  | 86.6              |
|            |           | 70%         | 19.5      | 45.8       | 3195.2   | 3475.4     | 6.1                  | 85.6              |
|            |           | 72%         | 20.4      | 49.0       | 3414.9   | 3556.3     | 6.0                  | 86.0              |
|            |           | 74%         | 21.2      | 52.9       | 3682.7   | 3635.6     | 5.7                  | 84.7              |
|            |           | 76%         | 21.8      | 55.7       | 3881.1   | 3714.5     | 5.6                  | 84.9              |
|            |           | 78%         | 23.0      | 60.5       | 4213.9   | 3791.2     | 5.5                  | 84.3              |
|            |           | 80%         | 24.1      | 64.6       | 4495.8   | 3865.5     | 5.4                  | 84.3              |
|            |           | 82%         | 25.1      | 69.2       | 4807.0   | 3937.3     | 5.2                  | 83.6              |
|            |           | 84%         | 26.4      | 73.9       | 5132.3   | 4008.6     | 5.1                  | 83.8              |
|            |           | 86%         | 27.1      | 78.7       | 5463.3   | 4078.6     | 5.0                  | 82.1              |
|            |           | 88%         | 28.1      | 85.2       | 5907.0   | 4145.3     | 4.8                  | 80.0              |
|            |           | 90%         | 29.0      | 88.9       | 6163.1   | 4211.6     | 4.7                  | 81.0              |
|            |           | 100%        | 30.0      | 92.0       | 6383.6   | 4272.8     | 4.7                  | 81.4              |



| voltage -V | Propeller | Throttle -% | Thrust-kg | Current -A | Power-W | Speed -RPM | Power-efficiency-g/W | Productiveness -% |
|------------|-----------|-------------|-----------|------------|---------|------------|----------------------|-------------------|
| 70         | 40132     | 40%         | 6.5       | 7.9        | 556.1   | 1658.9     | 11.7                 | 86.2              |
|            |           | 42%         | 7.2       | 9.3        | 649.2   | 1744.0     | 11.1                 | 86.1              |
|            |           | 44%         | 7.8       | 10.5       | 736.5   | 1830.5     | 10.6                 | 87.0              |
|            |           | 46%         | 8.8       | 12.2       | 853.4   | 1915.0     | 10.3                 | 87.6              |
|            |           | 48%         | 9.6       | 13.9       | 973.4   | 1997.6     | 9.9                  | 87.0              |
|            |           | 50%         | 10.5      | 15.7       | 1101.3  | 2078.0     | 9.5                  | 88.1              |
|            |           | 52%         | 11.4      | 17.7       | 1237.3  | 2158.4     | 9.2                  | 88.4              |
|            |           | 54%         | 12.2      | 19.8       | 1385.3  | 2237.5     | 8.8                  | 88.9              |
|            |           | 56%         | 13.1      | 22.0       | 1540.9  | 2313.2     | 8.5                  | 88.3              |
|            |           | 58%         | 14.0      | 24.4       | 1706.6  | 2389.5     | 8.2                  | 87.2              |
|            |           | 60%         | 15.0      | 26.9       | 1877.4  | 2463.8     | 8.0                  | 86.5              |
|            |           | 62%         | 15.9      | 29.7       | 2070.0  | 2538.5     | 7.7                  | 86.0              |
|            |           | 64%         | 17.2      | 32.7       | 2282.9  | 2607.4     | 7.5                  | 85.6              |
|            |           | 66%         | 17.8      | 35.8       | 2499.8  | 2676.5     | 7.1                  | 84.5              |
|            |           | 68%         | 18.8      | 38.4       | 2674.5  | 2747.0     | 7.0                  | 84.8              |
|            |           | 70%         | 19.9      | 41.6       | 2903.4  | 2812.2     | 6.8                  | 83.9              |
|            |           | 72%         | 21.1      | 45.0       | 3138.7  | 2878.5     | 6.7                  | 83.9              |
|            |           | 74%         | 21.8      | 48.2       | 3357.3  | 2943.0     | 6.5                  | 83.8              |
|            |           | 76%         | 23.0      | 51.9       | 3614.2  | 3007.8     | 6.4                  | 83.8              |
|            |           | 78%         | 24.0      | 55.5       | 3862.9  | 3066.8     | 6.2                  | 84.0              |
|            |           | 80%         | 24.5      | 58.8       | 4090.5  | 3127.6     | 6.0                  | 83.2              |
|            |           | 82%         | 25.7      | 63.2       | 4396.4  | 3186.6     | 5.9                  | 82.2              |
|            |           | 84%         | 26.7      | 66.7       | 4630.3  | 3241.0     | 5.8                  | 82.0              |
|            |           | 86%         | 27.2      | 69.3       | 4816.5  | 3301.0     | 5.6                  | 82.1              |
|            |           | 88%         | 27.9      | 73.3       | 5084.4  | 3354.0     | 5.5                  | 81.3              |
|            |           | 90%         | 28.9      | 77.9       | 5402.0  | 3408.2     | 5.4                  | 80.9              |
|            |           | 100%        | 31.1      | 85.4       | 5922.4  | 3482.5     | 5.3                  | 80.4              |



| voltage -V | Propeller | Throttle -% | Thrust-kg | Current -A | Power -W | Speed -RPM | Power-efficiency-g/W | Productiveness -% |
|------------|-----------|-------------|-----------|------------|----------|------------|----------------------|-------------------|
| 70         | 43 寸      | 40%         | 7.0       | 8.3        | 584.5    | 1462.4     | 11.9                 | 86.8              |
|            |           | 42%         | 7.7       | 9.7        | 678.8    | 1539.7     | 11.3                 | 86.8              |
|            |           | 44%         | 8.4       | 11.2       | 782.1    | 1614.8     | 10.8                 | 87.4              |
|            |           | 46%         | 9.1       | 12.6       | 883.4    | 1688.2     | 10.3                 | 87.1              |
|            |           | 48%         | 9.9       | 14.2       | 995.3    | 1761.5     | 9.9                  | 88.1              |
|            |           | 50%         | 10.9      | 16.1       | 1127.0   | 1833.8     | 9.6                  | 89.0              |
|            |           | 52%         | 11.9      | 18.2       | 1276.0   | 1903.8     | 9.3                  | 88.2              |
|            |           | 54%         | 12.7      | 20.3       | 1422.5   | 1973.0     | 9.0                  | 87.5              |
|            |           | 56%         | 13.4      | 22.4       | 1565.4   | 2040.2     | 8.6                  | 87.6              |
|            |           | 58%         | 14.5      | 24.7       | 1727.2   | 2108.0     | 8.4                  | 87.1              |
|            |           | 60%         | 15.2      | 27.0       | 1888.8   | 2171.6     | 8.1                  | 85.9              |
|            |           | 62%         | 16.1      | 29.4       | 2054.6   | 2237.4     | 7.8                  | 84.5              |
|            |           | 64%         | 16.9      | 31.9       | 2225.3   | 2300.0     | 7.6                  | 84.3              |
|            |           | 66%         | 17.8      | 34.8       | 2426.8   | 2362.4     | 7.3                  | 83.8              |
|            |           | 68%         | 18.8      | 37.4       | 2612.4   | 2422.4     | 7.2                  | 83.2              |
|            |           | 70%         | 19.7      | 40.5       | 2823.5   | 2481.8     | 7.0                  | 82.7              |
|            |           | 72%         | 20.3      | 43.2       | 3016.0   | 2538.6     | 6.7                  | 82.4              |
|            |           | 74%         | 21.3      | 46.7       | 3252.8   | 2597.2     | 6.5                  | 82.1              |
|            |           | 76%         | 22.3      | 49.9       | 3476.2   | 2652.4     | 6.4                  | 81.8              |
|            |           | 78%         | 23.5      | 54.3       | 3781.4   | 2707.8     | 6.2                  | 81.0              |
|            |           | 80%         | 24.7      | 58.5       | 4070.0   | 2762.2     | 6.1                  | 80.9              |
|            |           | 82%         | 26.0      | 62.2       | 4324.6   | 2808.0     | 6.0                  | 80.3              |
|            |           | 84%         | 26.4      | 64.7       | 4495.3   | 2858.6     | 5.9                  | 79.7              |
|            |           | 86%         | 27.0      | 67.7       | 4708.5   | 2912.2     | 5.7                  | 79.9              |
|            |           | 88%         | 28.6      | 72.5       | 5034.3   | 2958.0     | 5.7                  | 79.1              |
|            |           | 90%         | 29.4      | 76.4       | 5304.3   | 3006.6     | 5.5                  | 79.0              |
|            |           | 100%        | 31.1      | 82.6       | 5728.3   | 3073.2     | 5.4                  | 79.3              |

## Precautions and Quality Assurance Agreement



### Storage environment

The motor should be stored in a dry and well-ventilated warehouse at temperatures between -20°C and 60°C with standard humidity of 15% to 70%RH (non-condensing), for a minimum of 6 months without compromising its quality. The operating environment for the motor is 0°C to 40°C and 15% to 90%RH (non-condensing). The storage and usage altitude must not exceed 1500m (or 86-106Pa atmospheric pressure). The motor must be kept away from severe corrosive gases and media that may affect electrical insulation performance.



### quality standard

The buyer shall retain the sample motor for reference when quality issues need to be confirmed, in accordance with the supplier's sample specifications and the delivered prototype.



### Sampling inspection criteria

Perform a standard MIL-STD-105E inspection for sampling judgment: 1. Insulation withstand voltage: IL=S-I AQL=0 2. Motor electrical performance (noise, vibration): IL=II AQL=0.65 (standard according to sample) 3. Appearance: IL=II AQL=1.5

- 1、 The motor complies with EMC certification standards.
- 2、 The motor's performance and testing standards shall comply with the 'Sample Specification Document' and prototype motor approved by both parties. If the purchaser fails to sign and return the confirmation document on time or does not sign the prototype, it shall be deemed as acceptance of all requirements from the supplier.
- 3、 Minor variations in motor test performance due to differences in power supply and testing equipment are normal.
- 4、 If the motor is used beyond its rated specifications, or if abnormal conditions such as motor jamming or short circuits are caused by human error, the motor's service life will be terminated. The supplier shall not be held liable.
- 5、 The motor is covered by a 2-month free warranty for non-human factors, with paid repairs after 12 months. The supplier shall not be liable for quality issues caused by factors beyond the manufacturer's control.
- 6、 Other: Keep the motor away from iron filings and similar materials to ensure smooth operation. The motor's magnet is fragile and prone to jamming. During installation, avoid using excessively long screws, as they may damage internal components and cause short circuits that could burn out the motor.