

## P65V 动力套装技术参数

### 动力套参数 All-in-one thrust system specification

|                                                               |                |                                                    |                                                                           |
|---------------------------------------------------------------|----------------|----------------------------------------------------|---------------------------------------------------------------------------|
| 产品型号<br>Model                                                 | P65V           | 最大拉力<br>Max Thrust                                 | 114 kg                                                                    |
| 单轴推荐拉力(5分钟内)<br>Recommended takeoff weight per axis(5min max) | 65 kg          | 推荐拉力力效<br>Efficiency of recommended takeoff weight | 5.6 g/W                                                                   |
| 电压范围<br>Input voltage                                         | 315~450V       | 额定电压<br>Rated voltage                              | 355V                                                                      |
| 适配锂电池<br>Lithium compatible                                   | 96~107S (LiPo) | 定桨方式<br>Fixed propeller                            | 智能定桨<br>Intelligent fixed propeller                                       |
| 动力套重量 (含线、桨)<br>Weight (with cable and Props)                 | 6100 g         | 线材规格<br>Cable specification                        | 电源线: 10AWG*400mm 信号线: 800mm<br>Power cord: 10AWG*400mm Signal line: 800mm |
| 适用环境温度<br>Operating temperature                               | -35~55°C       | 防尘防水等级<br>Ingress protection                       | IP35                                                                      |

### 电调技术参数 ESC specification

|                                                                 |                                                    |                                |                                 |
|-----------------------------------------------------------------|----------------------------------------------------|--------------------------------|---------------------------------|
| 产品型号<br>Model                                                   | 100A-FOC                                           | 通讯方式<br>Communication protocol | UAVCAN / RS485                  |
| 电调尺寸<br>ESC size                                                | 225.6*98*60 mm (带插头)<br>225.6*98*60 mm (With plug) | 重量 (含线)<br>Weight (with cable) | 1200 g                          |
| 最大电流<br>Peak current (3 seconds)                                | 100A (3s)                                          | 持续电流<br>Continuous current     | 40A                             |
| 防尘防水等级<br>Ingress Protection                                    | IP67                                               | 双油门<br>Double throttle signal  | CAN+RS485 / CAN+PWM / RS485+PWM |
| PWM脉宽 (不支持校准)<br>Operating pulse width (No calibration support) | 1100~1940µs                                        | 黑匣子<br>Black box               | 2~48h 实时数据<br>2~48h log         |

### 电机技术参数 Motor specification

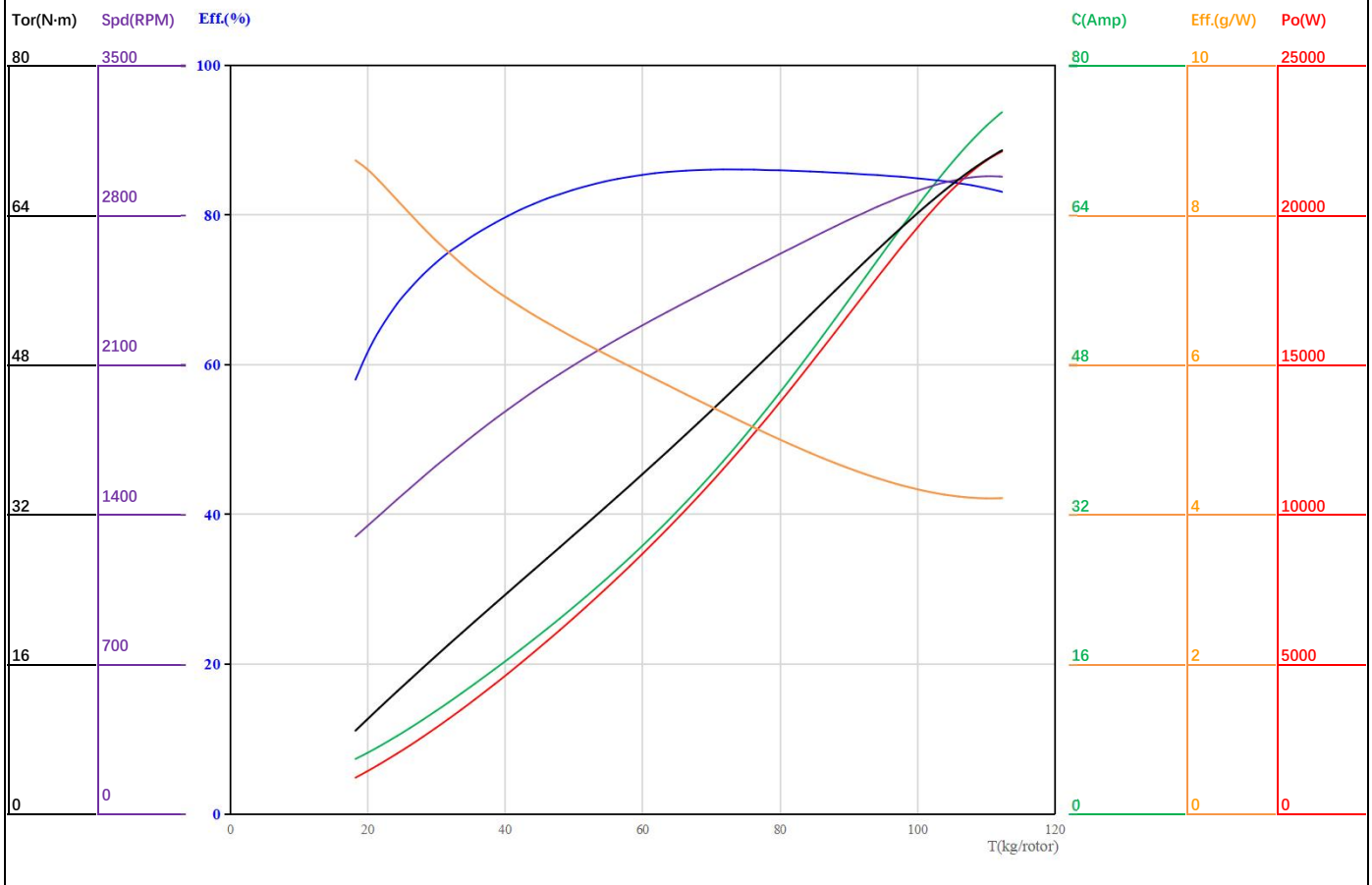
|                              |                 |                                |         |
|------------------------------|-----------------|--------------------------------|---------|
| 产品型号<br>Model                | 15635           | KV值<br>KV                      | 11 KV   |
| 电机外直径<br>Motor diameter      | Φ167.1*H100.5mm | 槽极数<br>Slot& Pole              | 36N 42P |
| 防尘防水等级<br>Ingress Protection | IPX5            | 电机重量(含线)<br>Weight (with wire) | 4250 g  |

### 桨叶参数 Propeller specification

|                           |                                 |                             |                                                |
|---------------------------|---------------------------------|-----------------------------|------------------------------------------------|
| 产品型号<br>Model             | 60*20" / 54*23"                 | 单支重量<br>Weight              | 620 g / 707 g                                  |
| 主要材质<br>Material of Props | 碳纤维直桨<br>Carbon unfolding Props | 安装尺寸<br>Mounting dimensions | D60-6*M6, 中心孔 D20<br>D60-6*M6, centre hole D20 |

## 60\*20"负载性能参数 Load performance parameters

### 曲线图 Graph



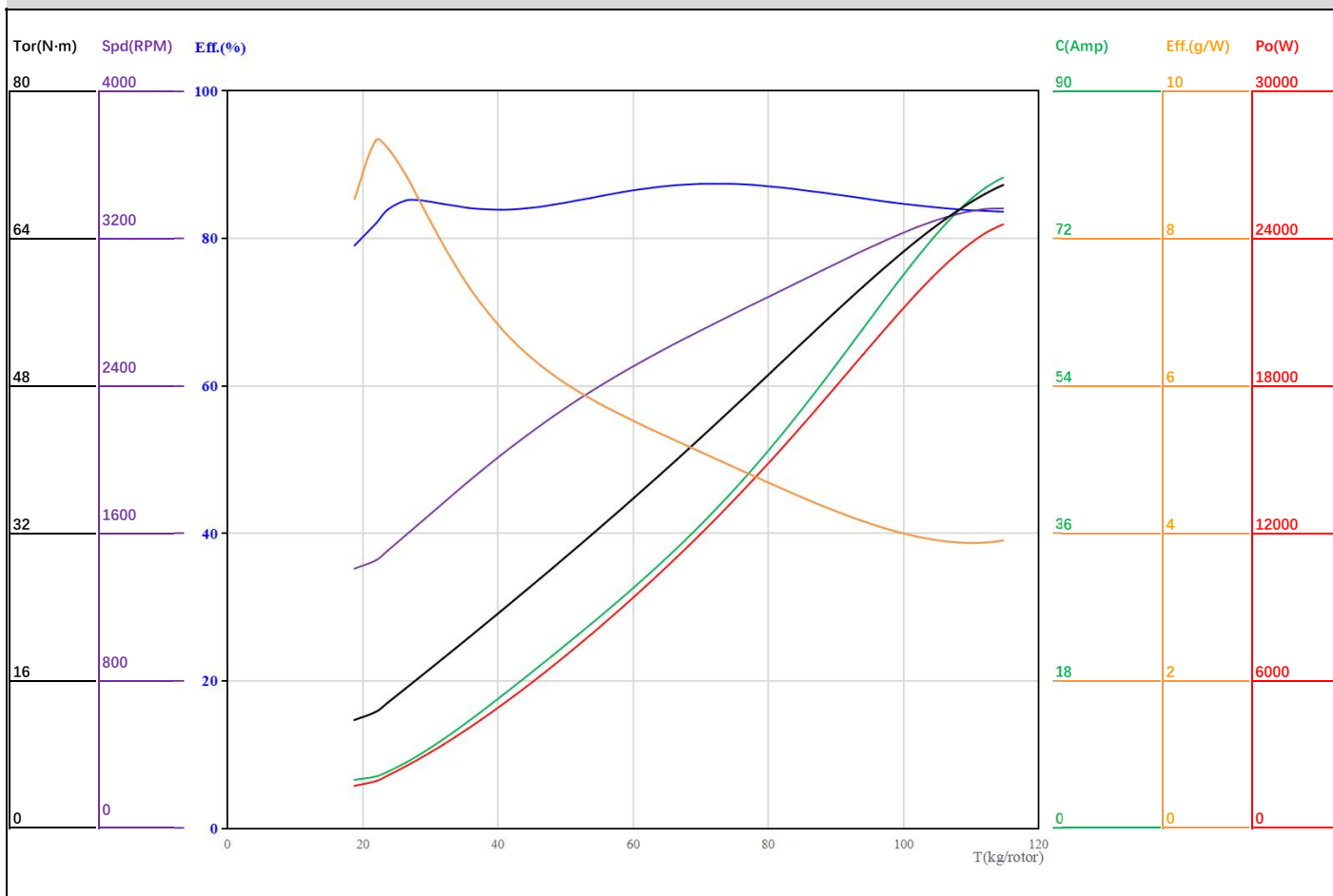
### 拉力数据表 Motor Propeller Pull Test Data

| 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 | Power(W)<br>输入功率 | Speed(RPM)<br>转速 | Efficiency(g/W)<br>力效 | Torque(N-m)<br>扭矩 | Temperature(°C)<br>电机温度 |
|--------------------|------------------|-------------------|-----------------|------------------|------------------|------------------|-----------------------|-------------------|-------------------------|
| 355V               | 60*20"           | 35%               | 18193           | 5.9              | 2083.9           | 1297             | 8.7                   | 8.90              | 78°C                    |
|                    |                  | 37%               | 19851           | 6.5              | 2304.0           | 1344             | 8.6                   | 10.06             |                         |
|                    |                  | 39%               | 24248           | 8.3              | 2957.2           | 1470             | 8.2                   | 13.09             |                         |
|                    |                  | 42%               | 29829           | 11.0             | 3890.8           | 1625             | 7.7                   | 16.82             |                         |
|                    |                  | 45%               | 35559           | 13.9             | 4938.1           | 1774             | 7.2                   | 20.57             |                         |
|                    |                  | 48%               | 40353           | 16.5             | 5861.1           | 1890             | 6.9                   | 23.65             |                         |
|                    |                  | 51%               | 46059           | 19.8             | 7018.4           | 2018             | 6.6                   | 27.30             |                         |
|                    |                  | 54%               | 51680           | 23.2             | 8228.9           | 2132             | 6.3                   | 30.90             |                         |
|                    |                  | 57%               | 58127           | 27.4             | 9723.5           | 2252             | 6.0                   | 35.09             |                         |
|                    |                  | 60%               | 63580           | 31.3             | 11097.3          | 2347             | 5.7                   | 38.72             |                         |
|                    |                  | 63%               | 68096           | 34.7             | 12329.2          | 2423             | 5.5                   | 41.79             |                         |
|                    |                  | 66%               | 74409           | 40.0             | 14200.0          | 2527             | 5.2                   | 46.19             |                         |
|                    |                  | 69%               | 79832           | 44.9             | 15946.6          | 2616             | 5.0                   | 50.05             |                         |
|                    |                  | 72%               | 84354           | 49.3             | 17487.3          | 2689             | 4.8                   | 53.30             |                         |
|                    |                  | 75%               | 89749           | 54.7             | 19404.3          | 2774             | 4.6                   | 57.17             |                         |
|                    |                  | 78%               | 95892           | 60.9             | 21619.5          | 2862             | 4.4                   | 61.47             |                         |
|                    |                  | 81%               | 100062          | 65.0             | 23085.7          | 2914             | 4.3                   | 64.23             |                         |
|                    |                  | 84%               | 106012          | 70.4             | 25006.2          | 2966             | 4.2                   | 67.82             |                         |
|                    |                  | 86%               | 107895          | 72.0             | 25545.8          | 2976             | 4.2                   | 68.84             |                         |
|                    |                  | 89%               | 109992          | 73.5             | 26096.1          | 2981             | 4.2                   | 69.88             |                         |
|                    |                  | 91%               | 111976          | 74.8             | 26554.0          | 2980             | 4.2                   | 70.78             |                         |
|                    |                  | 100%              | 112303          | 75.0             | 26621.5          | 2979             | 4.2                   | 70.91             |                         |

以上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5min数据，仅供参考。  
The above data is based on the measurement made by Hobbywing Laboratory at room temperature 25°C, sea level altitude, varying throttle input regulation, and the temperature of the motor is recommend take off weight under continuous operation for 5 mins, which is for reference only.

## 54\*23" 负载性能参数 Load performance parameters

曲线图 Graph



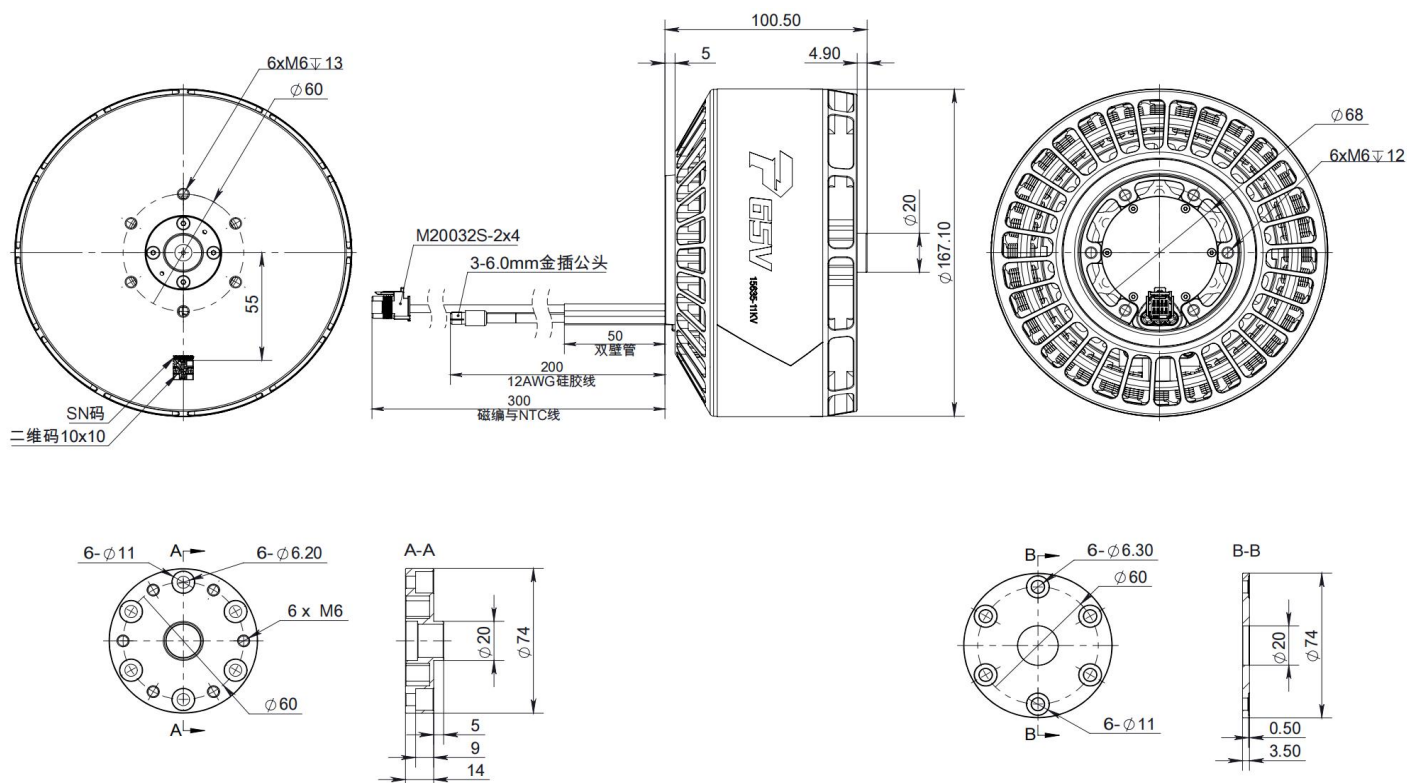
拉力数据表 Motor Propeller Pull Test Data

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|--------------------|------------------|-------------------|-----------------|------------------|------------------|------------------|-----------------------|-------------------|-------------------------|
| 370V               | 54*23"           | 35%               | 18756           | 5.9              | 2197.8           | 1409             | 9.3                   | 11.77             | 78°C                    |
|                    |                  | 37%               | 23684           | 6.9              | 2567.8           | 1507             | 9.2                   | 13.65             |                         |
|                    |                  | 39%               | 26310           | 8.0              | 2967.4           | 1589             | 8.9                   | 15.18             |                         |
|                    |                  | 42%               | 31835           | 10.9             | 4018.2           | 1763             | 7.9                   | 18.43             |                         |
|                    |                  | 45%               | 37555           | 14.3             | 5283.6           | 1940             | 7.1                   | 21.84             |                         |
|                    |                  | 48%               | 44281           | 18.6             | 6882.0           | 2132             | 6.4                   | 25.92             |                         |
|                    |                  | 51%               | 49985           | 22.4             | 8284.3           | 2280             | 6.0                   | 29.44             |                         |
|                    |                  | 54%               | 55584           | 26.2             | 9697.7           | 2411             | 5.7                   | 32.96             |                         |
|                    |                  | 57%               | 60157           | 29.5             | 10896.5          | 2509             | 5.5                   | 35.89             |                         |
|                    |                  | 60%               | 66428           | 34.2             | 12646.6          | 2634             | 5.3                   | 39.99             |                         |
|                    |                  | 63%               | 71706           | 38.5             | 14248.7          | 2732             | 5.0                   | 43.53             |                         |
|                    |                  | 66%               | 76053           | 42.4             | 15673.2          | 2812             | 4.9                   | 46.49             |                         |
|                    |                  | 69%               | 82086           | 48.2             | 17826.6          | 2920             | 4.6                   | 50.65             |                         |
|                    |                  | 72%               | 86362           | 52.6             | 19469.4          | 2997             | 4.4                   | 53.59             |                         |
|                    |                  | 75%               | 92276           | 59.1             | 21852.2          | 3103             | 4.2                   | 57.61             |                         |
|                    |                  | 78%               | 96408           | 63.7             | 23550.5          | 3173             | 4.1                   | 60.32             |                         |
|                    |                  | 81%               | 101944          | 69.6             | 25752.0          | 3260             | 4.0                   | 63.73             |                         |
|                    |                  | 87%               | 110051          | 76.8             | 28430.8          | 3348             | 3.9                   | 67.96             |                         |
|                    |                  | 89%               | 112087          | 78.2             | 28915.5          | 3359             | 3.9                   | 68.83             |                         |
|                    |                  | 95%               | 113933          | 79.1             | 29259.6          | 3362             | 3.9                   | 69.52             |                         |
|                    |                  | 100%              | 114743          | 79.4             | 29381.7          | 3362             | 3.9                   | 69.79             |                         |

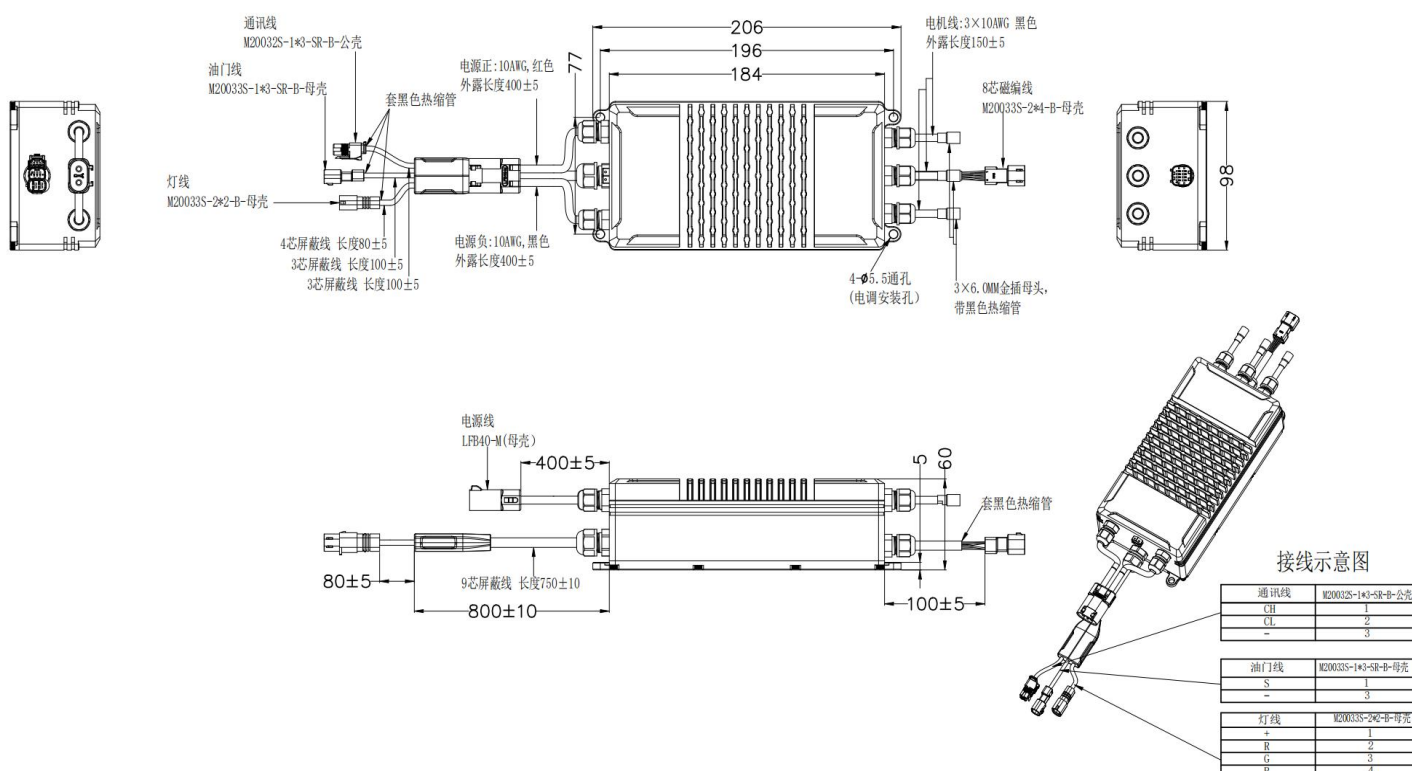
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# 尺寸图 Dimension figure

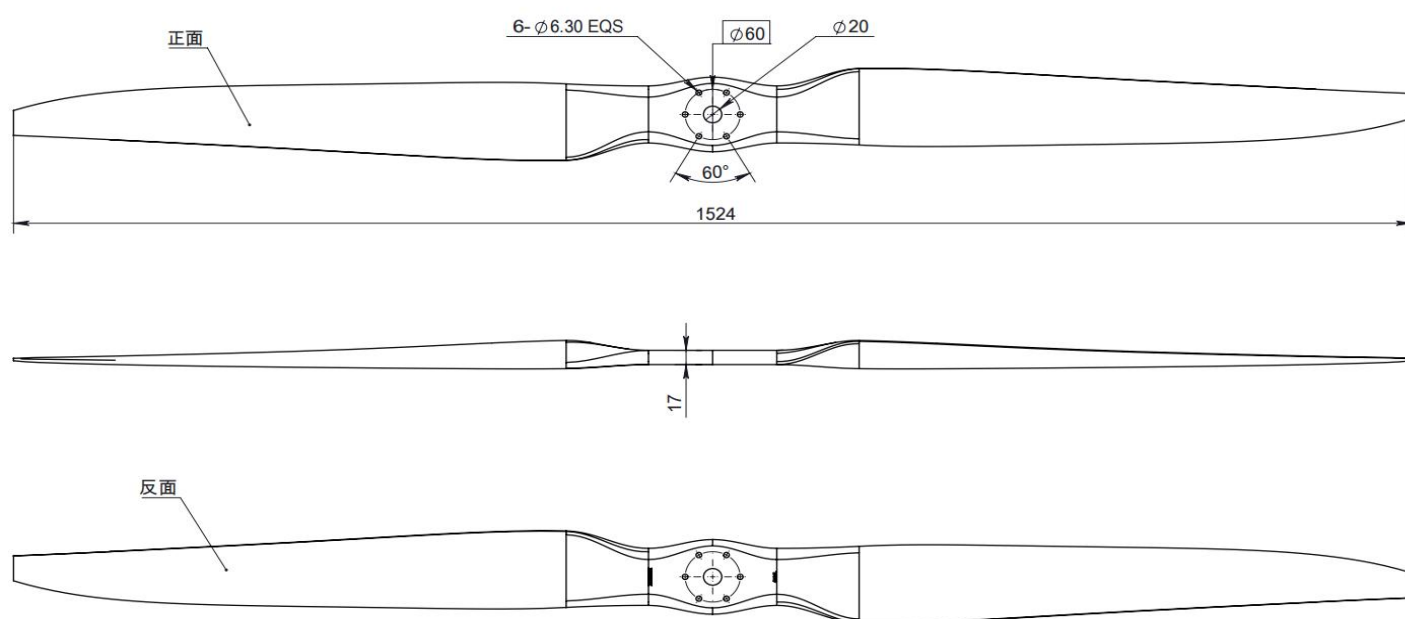
## 电机 Motor



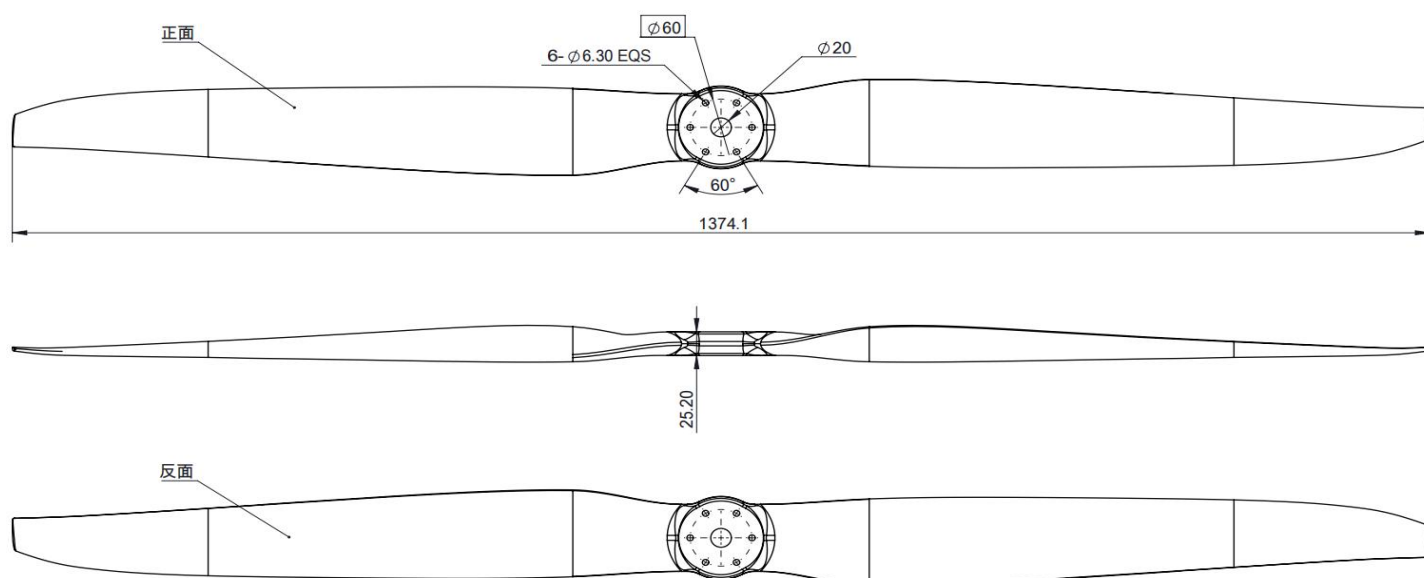
## 电调 ESC



## 桨叶 Propeller 60\*20"



## 桨叶 Propeller 54\*23"



# 航灯 Navigation light

