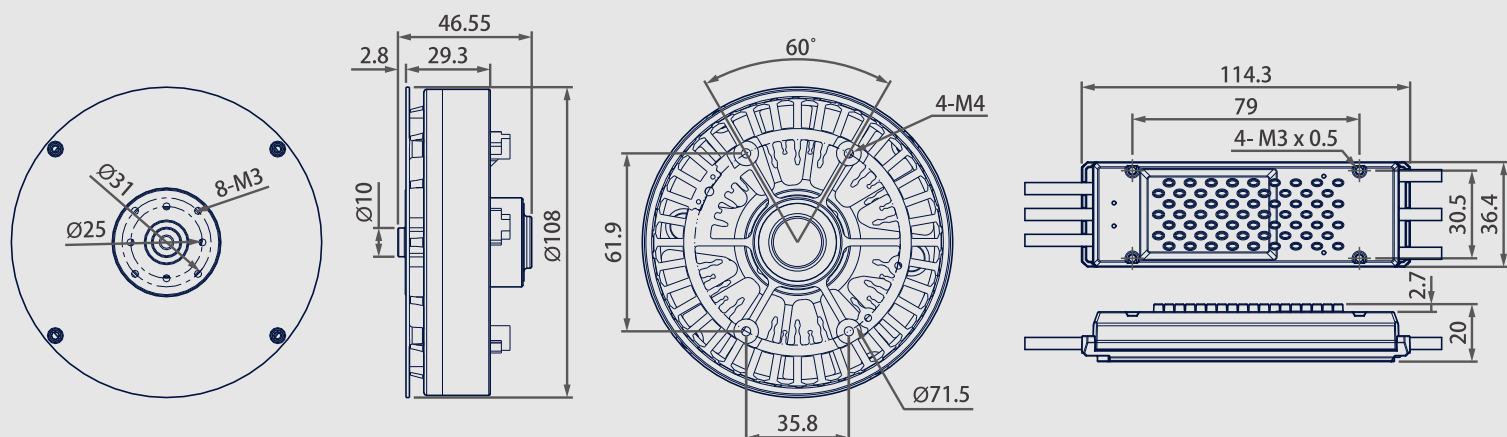


## Technical Drawing



## Specifications

|                          |                |                             |                    |
|--------------------------|----------------|-----------------------------|--------------------|
| <b>Motor</b>             | <b>10012</b>   | <b>ESC</b>                  | <b>100A</b>        |
| <b>KV Rating (rpm/V)</b> | <b>120KV</b>   | <b>Input Voltage</b>        | <b>10-14 S</b>     |
| <b>Max Thrust</b>        | <b>16.8 kg</b> | <b>Continuous Current</b>   | <b>80 A</b>        |
| Input Voltage            | 10-14 S        | Peak Current                | 100 A (10 Seconds) |
| Max. Current             | 80 A           | PWM Frequency               | 50~400 Hz          |
| Max. Input Power         | 3500 W         | PWM Pulse Width Range       | 1100 - 1940 µs     |
| Configuration            | 36N42P         | Operating Temperature Range | -20 °C~80 °C       |
| Recommended Propeller    | 30*11"         | Dimensions                  | 114.3*36.4*20 mm   |
| Dimensions               | 108*45.2 mm    | Weight (without wires)      | 123 g              |
| Weight                   | 590 g          |                             |                    |
| Winding/Magnet Grade     | 180°C/180°C    |                             |                    |

## 10012 – 100A Technical Parameters

| Voltage (V) | Propeller                    | Throttle (%) | Thrust (kg) | Current (A) | Power (W) | Speed (RPM) | EFF (g/W) |
|-------------|------------------------------|--------------|-------------|-------------|-----------|-------------|-----------|
| 46V         | 30*11"<br>Foldable Propeller | 10           | 0.10        | 0.24        | 11        | 168         | 9.1       |
|             |                              | 20           | 0.78        | 1.12        | 52        | 684         | 15.1      |
|             |                              | 30           | 2.21        | 3.43        | 157       | 1212        | 14.0      |
|             |                              | 40           | 3.92        | 7.70        | 353       | 1752        | 11.1      |
|             |                              | 50           | 6.13        | 14.34       | 655       | 2244        | 9.3       |
|             |                              | 60           | 8.39        | 23.34       | 1062      | 2724        | 7.8       |
|             |                              | 70           | 10.95       | 35.26       | 1597      | 3144        | 6.8       |
|             |                              | 80           | 13.24       | 49.01       | 2210      | 3528        | 5.9       |
|             |                              | 90           | 15.30       | 63.29       | 2835      | 3828        | 5.3       |
|             |                              | 100          | 16.97       | 79.00       | 3516      | 4068        | 4.7       |

The above data is measured by changing the throttle input to adjust the tension under the environment of 20°C and sea level.