TECO



UAV POWERTRAIN SOLUTION

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UAV Applications in Commercial Sector

TECO's UAV motor solutions focus on the commercial market, covering areas such as land surveying, security monitoring, medical rescue, and industrial inspection. These applications place extremely high demands on thrust, stability, and endurance. TECO's high-performance drone motors are specifically designed to meet these requirements and offer the following advantages.



Key Features : Motor

High Flight Stability

Equipped with Japanese bearings and permeability self-adhesive electrical steel, supporting operation up to 200°C which ensures stable flight across diverse environments.

Excellent Endurance

Lightweight structural design extends flight time, while high-efficiency output reduces overall energy consumption.

Superior Load Capacity

Multiple motor specifications are available to support a wide range of payload requirements, ideal for applications such as medical delivery, inspection, surveying, monitoring, and agricultural spraying.

High Power Density Design

Optimized electromagnetic and structural design delivers strong thrust performance in a compact form factor.

Reliable Performance in Harsh Conditions

Designed for demanding environments with stable operation under high temperature and varying load conditions.

Application-Focused Design

Engineered for commercial UAV applications including surveying, security, rescue, and industrial inspection.



Key Features : ESC

High-Efficiency Design

Layered PCBA structure enhances heat dissipation, ensuring stable and reliable operation.

Advanced Protections

Includes startup failure protection, throttle signal loss protection, motor lock protection, and overload protection.

Over-Temperature Protection

When ESC temperature exceeds 110°C, output power is automatically reduced to protect the system while maintaining minimal thrust to prevent crashes. Full power is gradually restored once the temperature drops.

Intelligent Safety Function

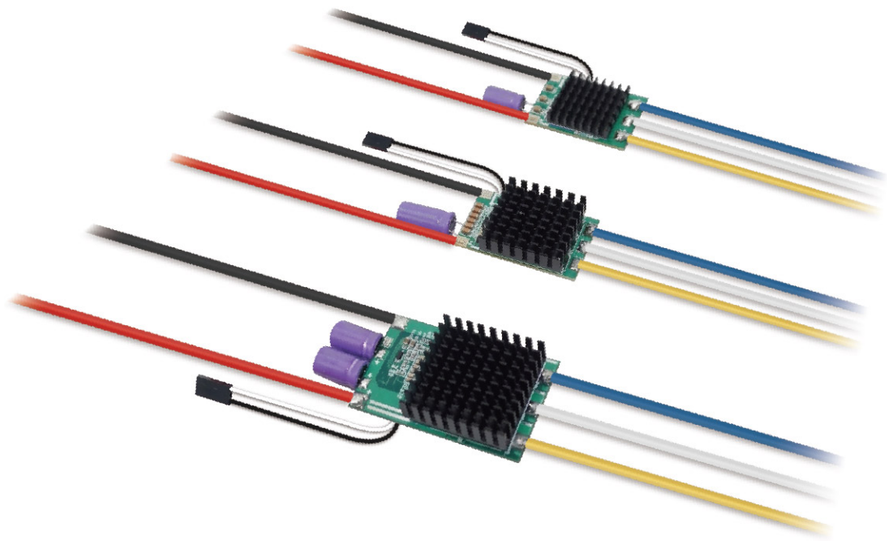
Automatically shuts down the motor if startup fails within 2 seconds, enabling quick troubleshooting.

High Peak Current Capability

Designed for multirotor UAV applications requiring high burst power.

Low-Voltage Descent Function

Configurable low-voltage protection allows controlled power reduction, enabling smooth descent and preventing sudden crashes.





Our Service

One-Stop Solution
Complete propulsion package including Motor, ESC, and Propeller, ensuring optimal compatibility and simplified procurement.

100% In-House Manufacturing
Fully designed and manufactured in-house, enabling high flexibility for customization and strict quality control.

Application-Driven Optimization
Propulsion systems optimized for specific applications such as inspection, agriculture, logistics, and delivery drones.

Engineering Support & Customization
Professional engineering team providing system integration support, performance optimization, and customized design services.

Made in Taiwan
Manufactured in Taiwan with stable supply chain, reliable quality, and global delivery capability.

2317 KV800

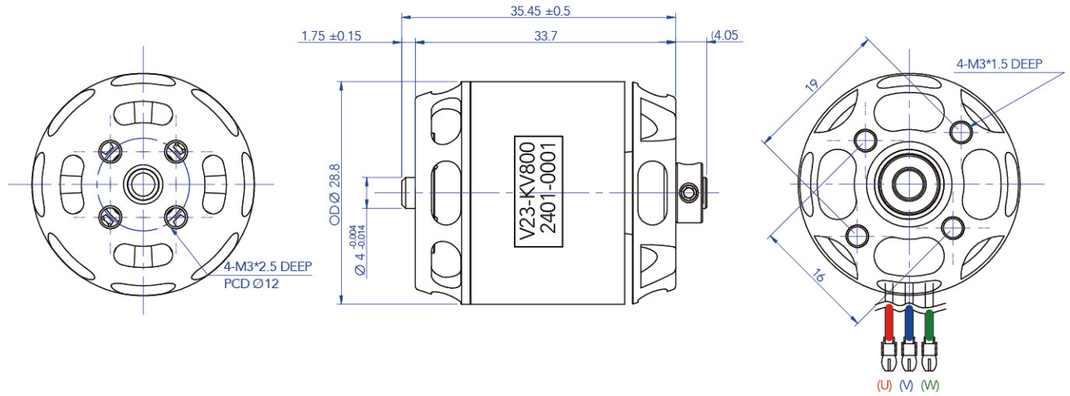
UAV Motor



Specification

- Cells in Series：2~4S
- Voltage Range (Vdc) ：8.4-16.8
- Slots/Poles Count：12S/14P
- Max Power (W)：330
- Rated Power (W)：110
- Rated Current (A)：6.5
- Max Current (A)：19.5
- Max Speed (rpm)：8700
- Thrust per Watt (g/W)：9.5 max
- Weight (g)：81.5

Dimensions



CW: The definition is clockwise rotation on shaft.

3115 KV900

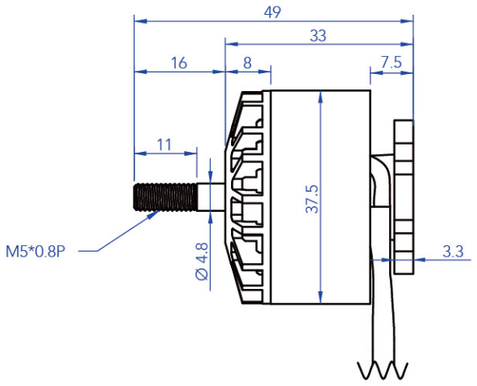
UAV Motor

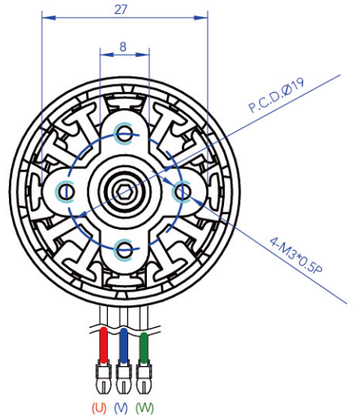


Specification

- Cells in Series：6S
- Voltage Range (Vdc) ：23.8-25.2
- Slots/Poles Count：12S/14P
- Max Power (W)：1600
- Rated Power (W)：600
- Rated Current (A)：12.9
- Max Current (A)：50
- Max Speed (rpm)：15000
- Thrust per Watt (g/W)：5.8 max
- Weight (g)：126

Dimensions





3508 KV650

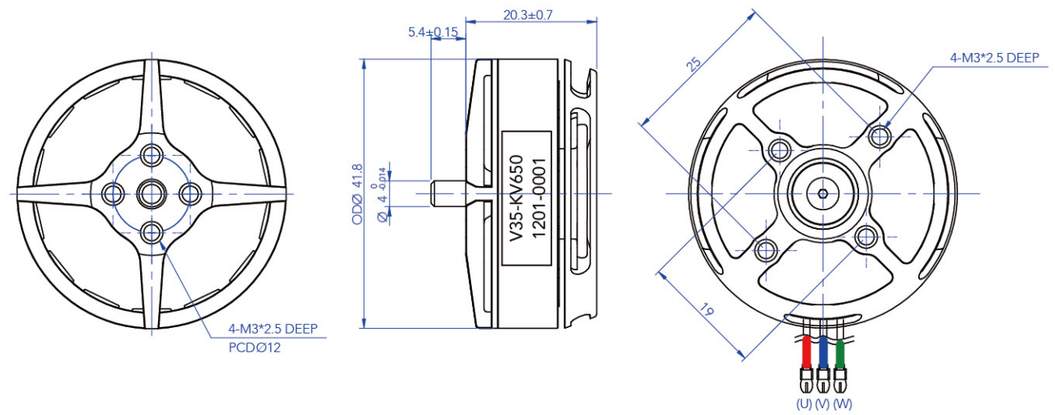
UAV Motor



Specification

- Cells in Series：2~4S
- Voltage Range (Vdc) ：8.4-16.8
- Slots/Poles Count：12S/14P
- Max Power (W)：350
- Rated Power (W)：125
- Rated Current (A)：7.8
- Max Current (A)：22.4
- Max Speed (rpm)：7200
- Thrust per Watt (g/W)：11 max
- Weight (g)：78.5

Dimensions



3517 KV760

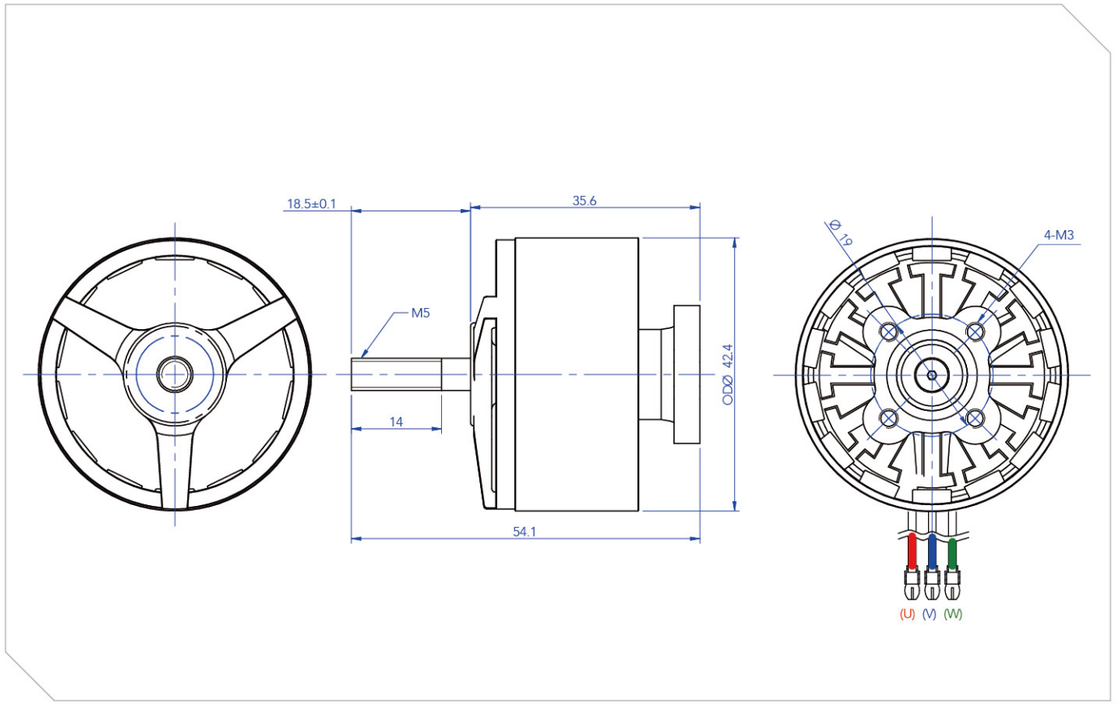
UAV Motor



Specification

- Cells in Series：6S
- Voltage Range (Vdc) ：23.8-25.2
- Slots/Poles Count：12S/14P
- Max Power (W)：1450
- Rated Power (W)：450
- Rated Current (A)：20
- Max Current (A)：66
- Max Speed (rpm)：12000
- Thrust per Watt (g/W)：9 max
- Weight (g)：181

Dimensions



3522 KV550

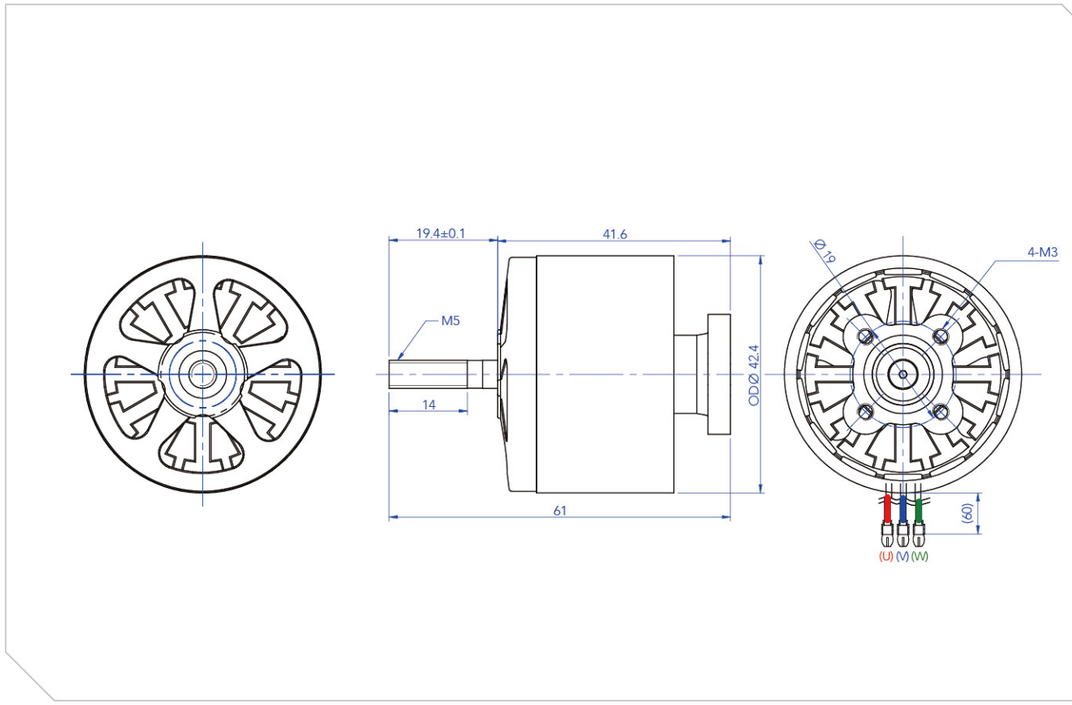
UAV Motor



Specification

- Cells in Series：6S
- Voltage Range (Vdc) ：23.8-25.2
- Slots/Poles Count：12S/14P
- Max Power (W)：1100
- Rated Power (W)：450
- Rated Current (A)：20
- Max Current (A)：50
- Max Speed (rpm)：13860
- Thrust per Watt (g/W)：8.4 max
- Weight (g)：218

Dimensions



5308 KV280

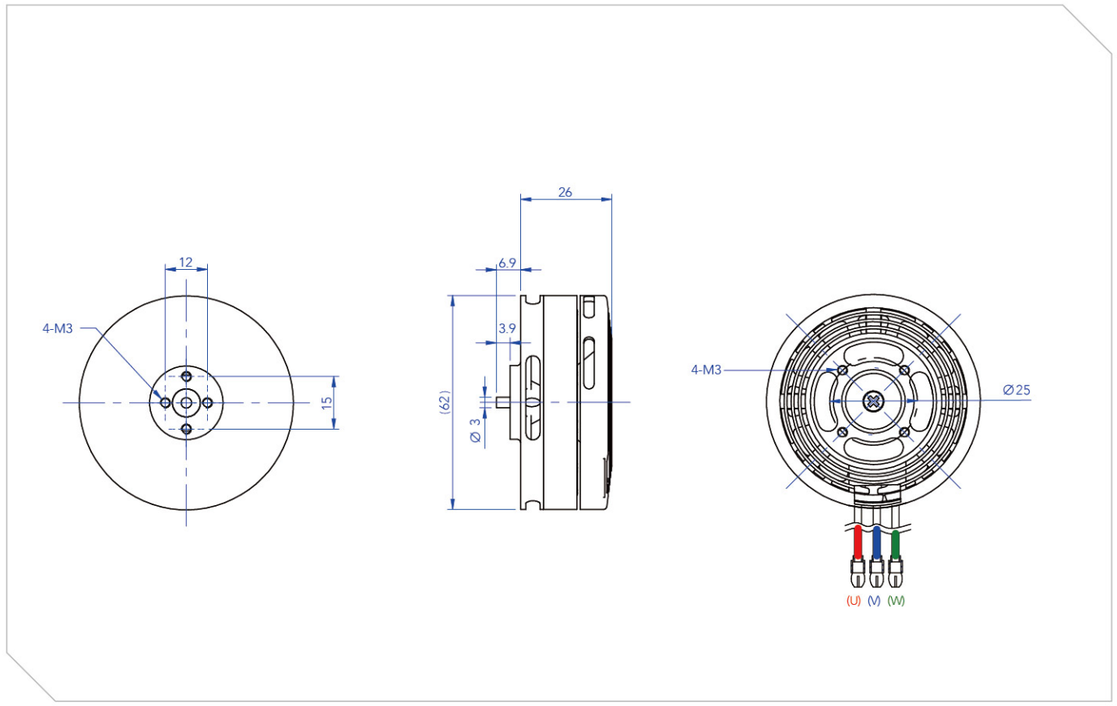
UAV Motor



Specification

- Cells in Series：6S
- Voltage Range (Vdc) ：23.8-25.2
- Slots/Poles Count：12S/14P
- Max Power (W)：700
- Rated Power (W)：180
- Rated Current (A)：5.6
- Max Current (A)：17.5
- Max Speed (rpm)：6720
- Thrust per Watt (g/W)：15 max
- Weight (g)：250

Dimensions



5322 KV240

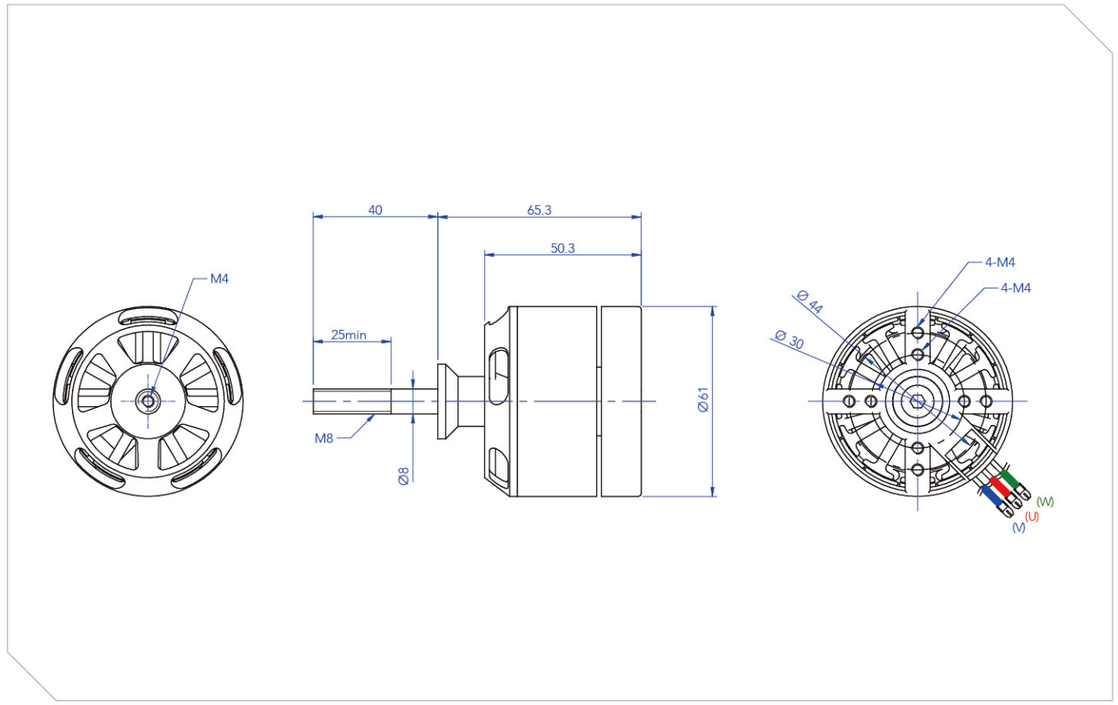
UAV Motor



Specification

- Cells in Series：12S
- Voltage Range (Vdc) ：42-52
- Slots/Poles Count：12S/14P
- Max Power (W)：3125
- Rated Power (W)：1500
- Rated Current (A)：35
- Max Current (A)：70
- Max Speed (rpm)：12000
- Thrust per Watt (g/W)：10 max
- Weight (g)：515

Dimensions



6013 KV210

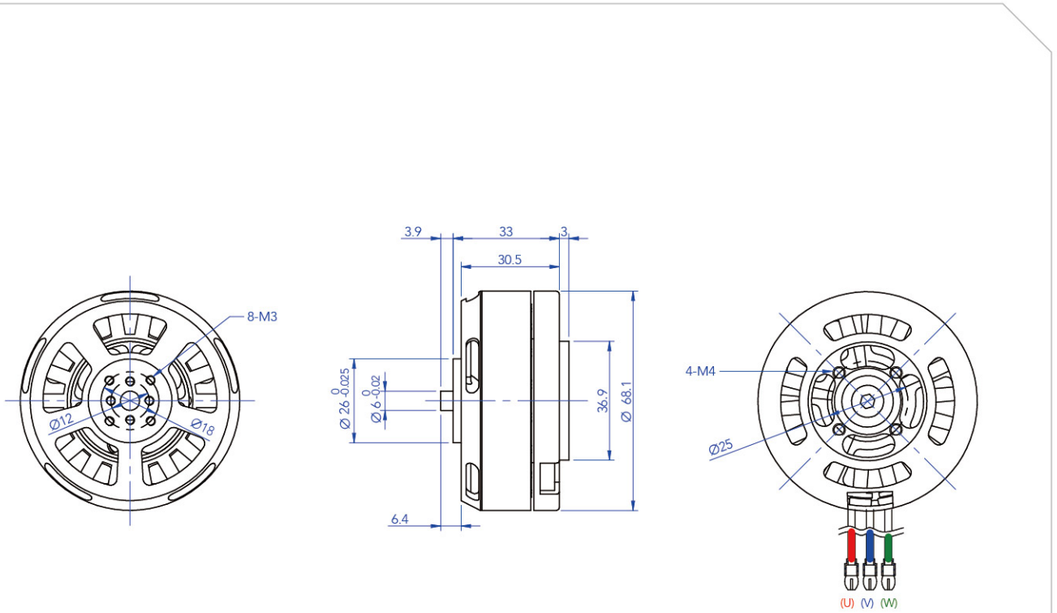
UAV Motor



Specification

- Cells in Series：12S
- Voltage Range (Vdc) ：42-52
- Slots/Poles Count：18S/22P
- Max Power (W)：2700
- Rated Power (W)：900
- Rated Current (A)：18
- Max Current (A)：70
- Max Speed (rpm)：6500
- Thrust per Watt (g/W)：17.2 max
- Weight (g)：385

Dimensions



10010 KV110

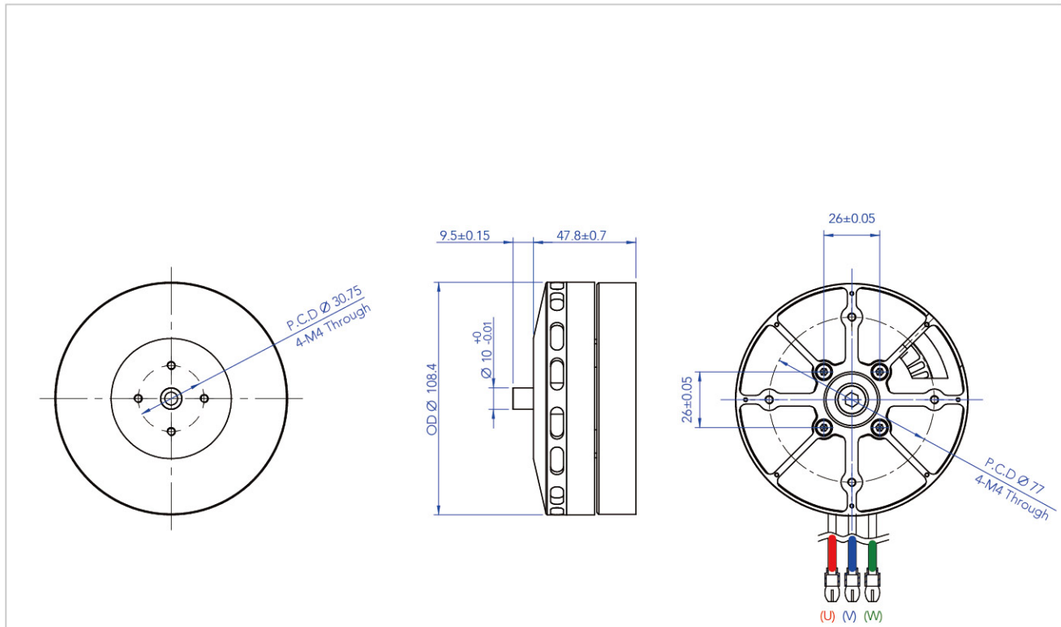
UAV Motor



Specification

- Cells in Series：12S
- Voltage Range (Vdc) ：42-52
- Slots/Poles Count：36S/40P
- Max Power (W)：3802
- Rated Power (W)：1000
- Rated Current (A)：22
- Max Current (A)：81.6
- Max Speed (rpm)：5280
- Thrust per Watt (g/W)：13.6 max
- Weight (g)：810

Dimensions



ESC

Electronic Speed Controller

Specification

Model	ES2602006	ES2606006	ES2604012
Input	4-6S LiPo (14.8V~25.2V)	4-6S LiPo (14.8V~25.2V)	8-12S LiPo (30V~52V)
Rated Current	20A	40A	40A
Peak Current	30A(10s)	70A(10s)	80A(10s)
Communication	PWM	PWM	PWM
Size	60(L)*28(W)*18(H) mm	69.5(L)* 28(W)*18(H) mm	83(L)*38(W)*18(H) mm
Weight (excluding wiring)	11g	13g	25g
Recommended motor matching	2317 KV800 3508 KV650 5308 KV280	3115 KV900 3517 KV760 3522 KV550	5322 KV240 6013 KV210 10010 KV110

Note



Distributor

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Specifications covered in this brochure may be subject to change without notice.

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