



UAV POWERTRAIN SOLUTION



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UAV Applications in Commercial Sector

TECO-Westinghouse'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-Westinghouse'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.



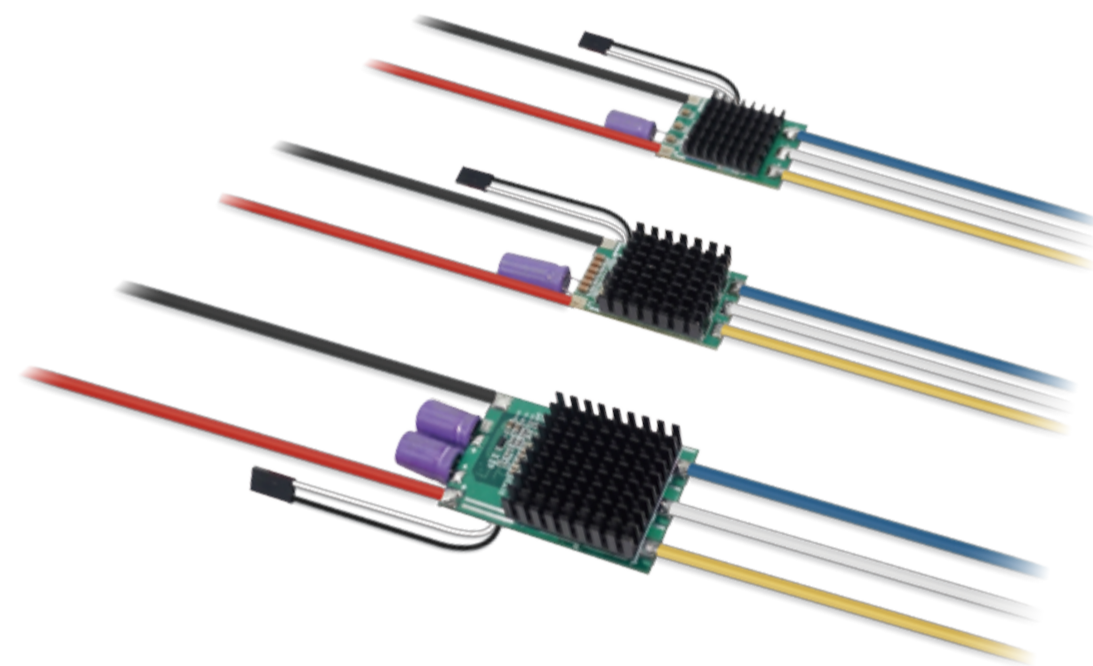
High Peak Current Capability

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

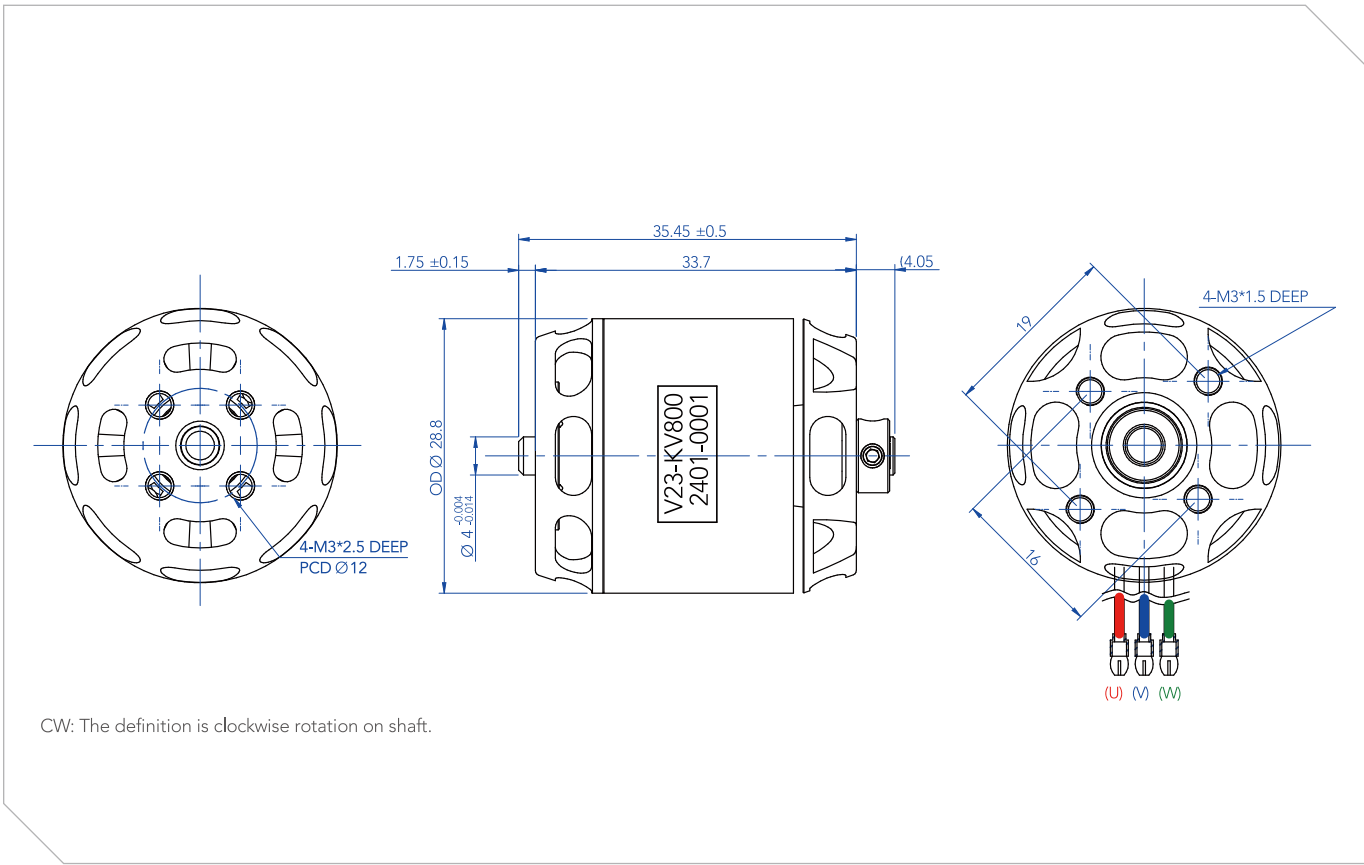
UAV Motor



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



3024 KV790

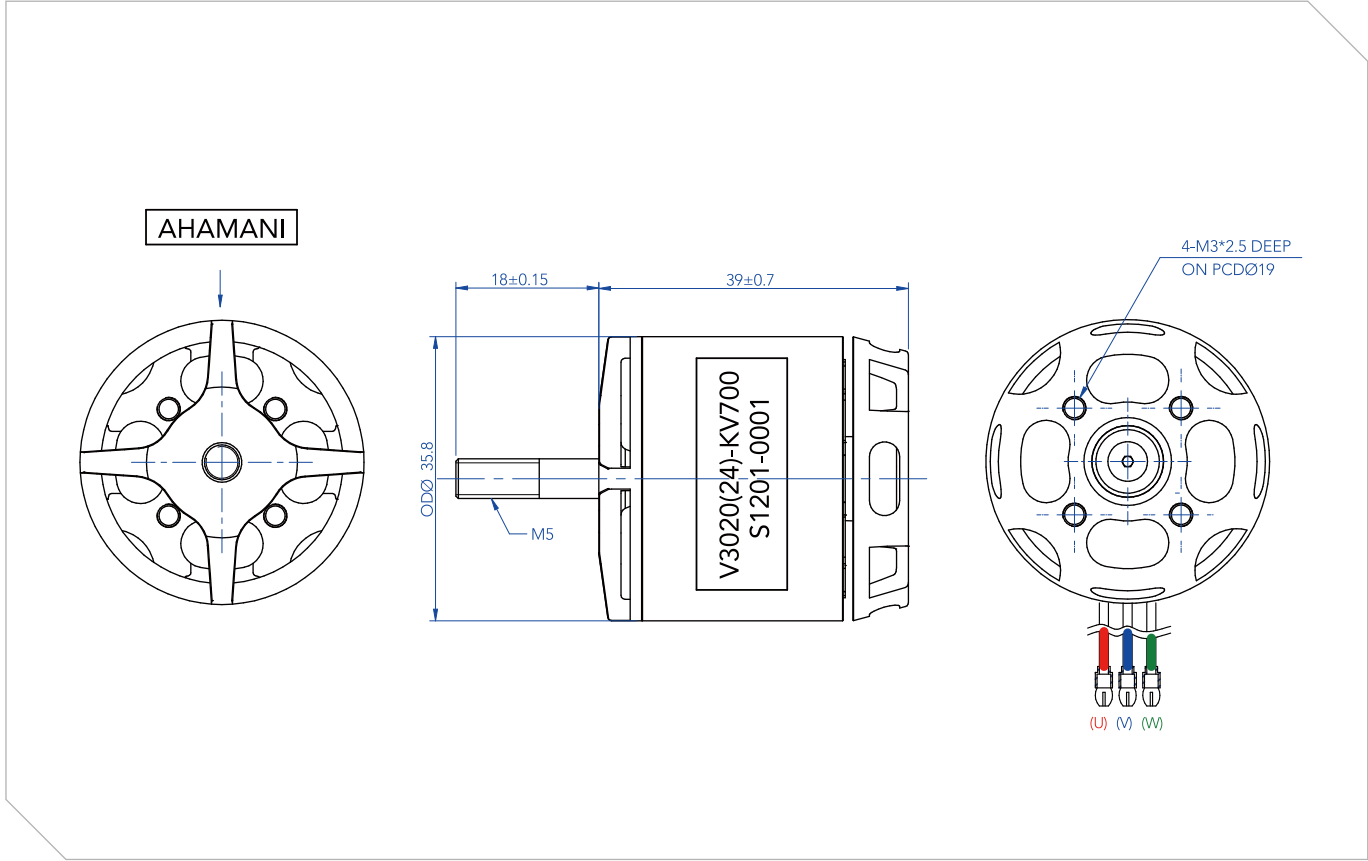
UAV Motor



Specification

- Cells in Series : 8S
- Voltage Range (Vdc) : 33.6
- Slots/Poles Count : 12S/14P
- Max Power (W) : 2300
- Rated Power (W) : 900
- Rated Current (A) : 27
- Max Current (A) : 78
- Max Speed (rpm) : 16000
- Thrust per Watt (g/W) : 5.9 max
- Weight (g) : 145

Dimensions



3115 KV900

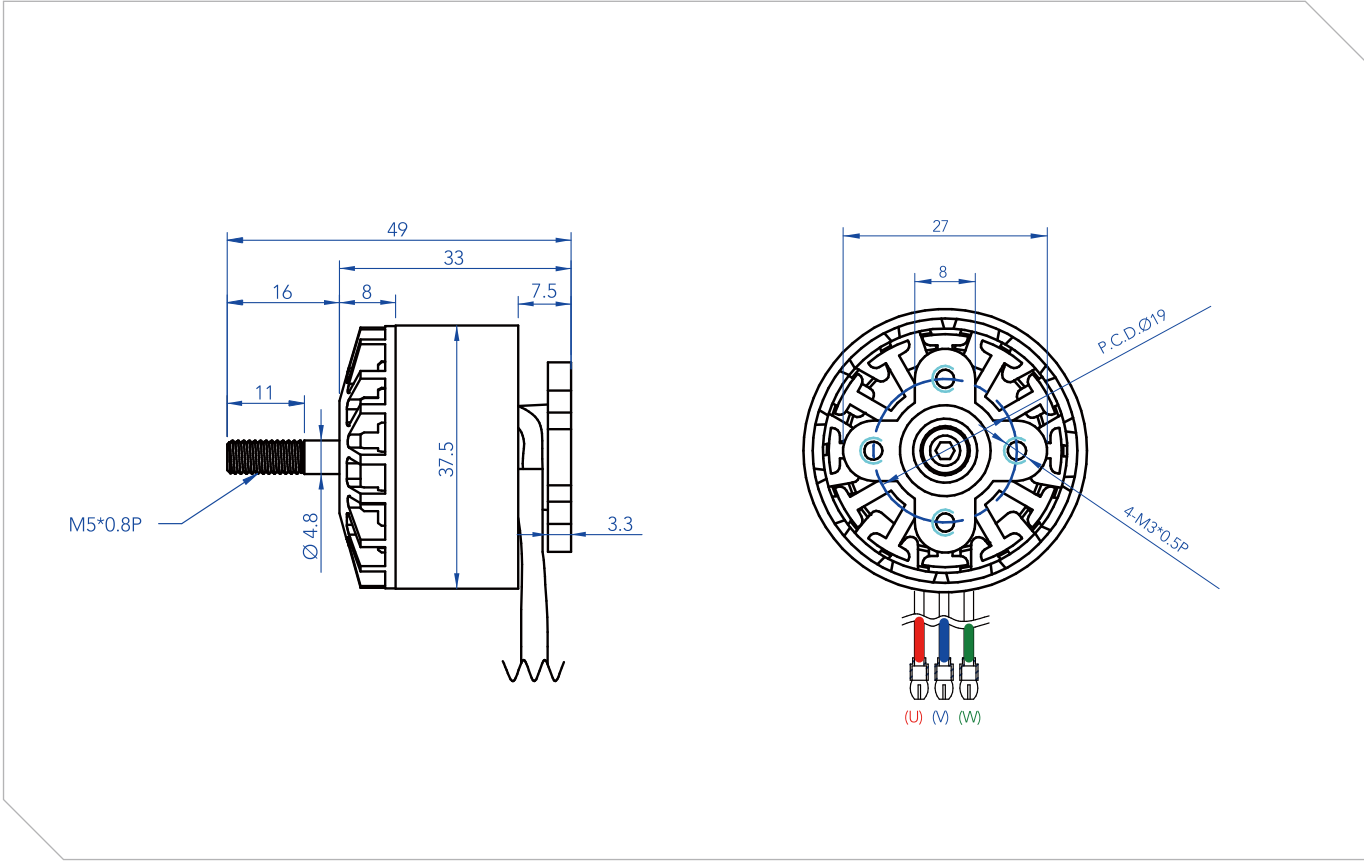
UAV Motor



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

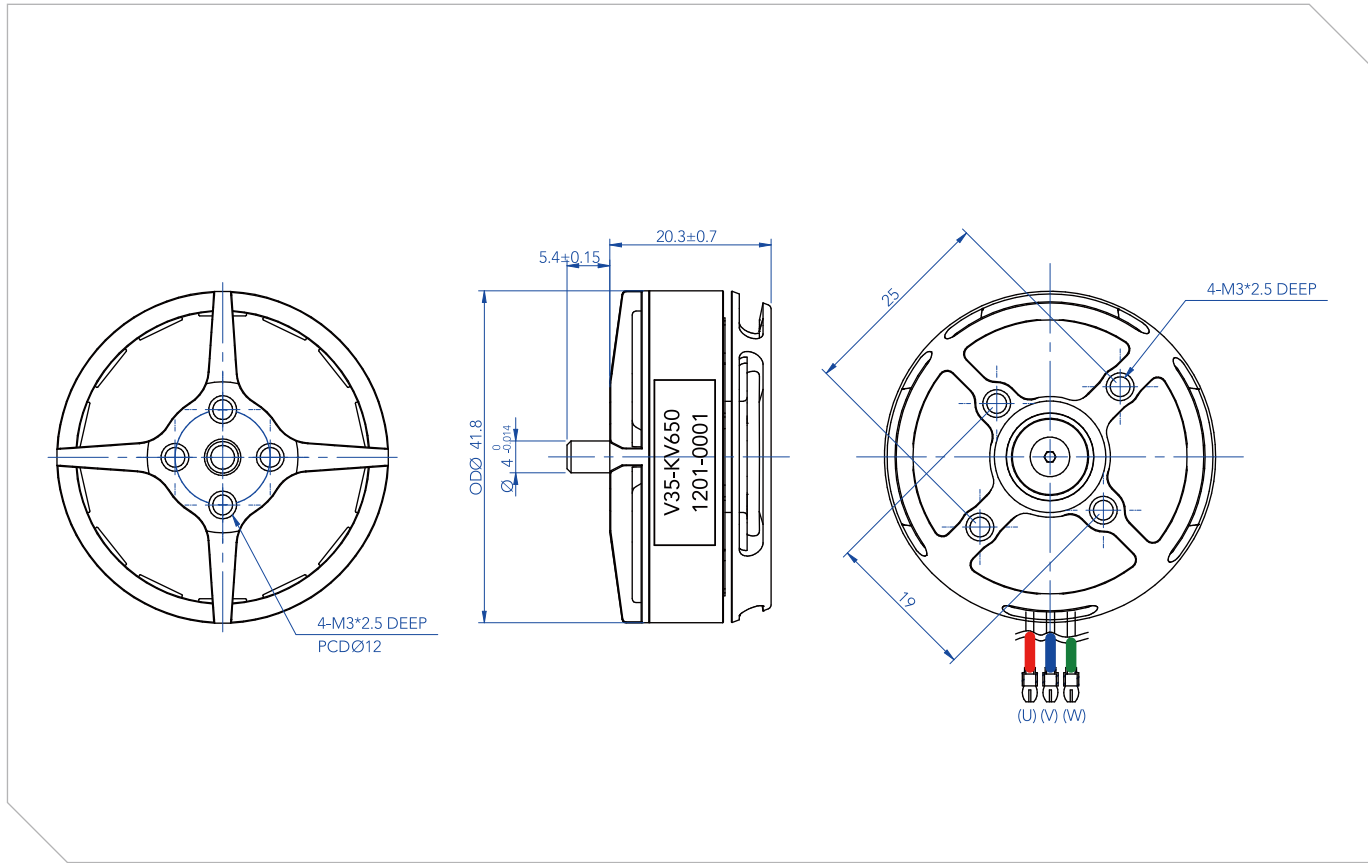
UAV Motor



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

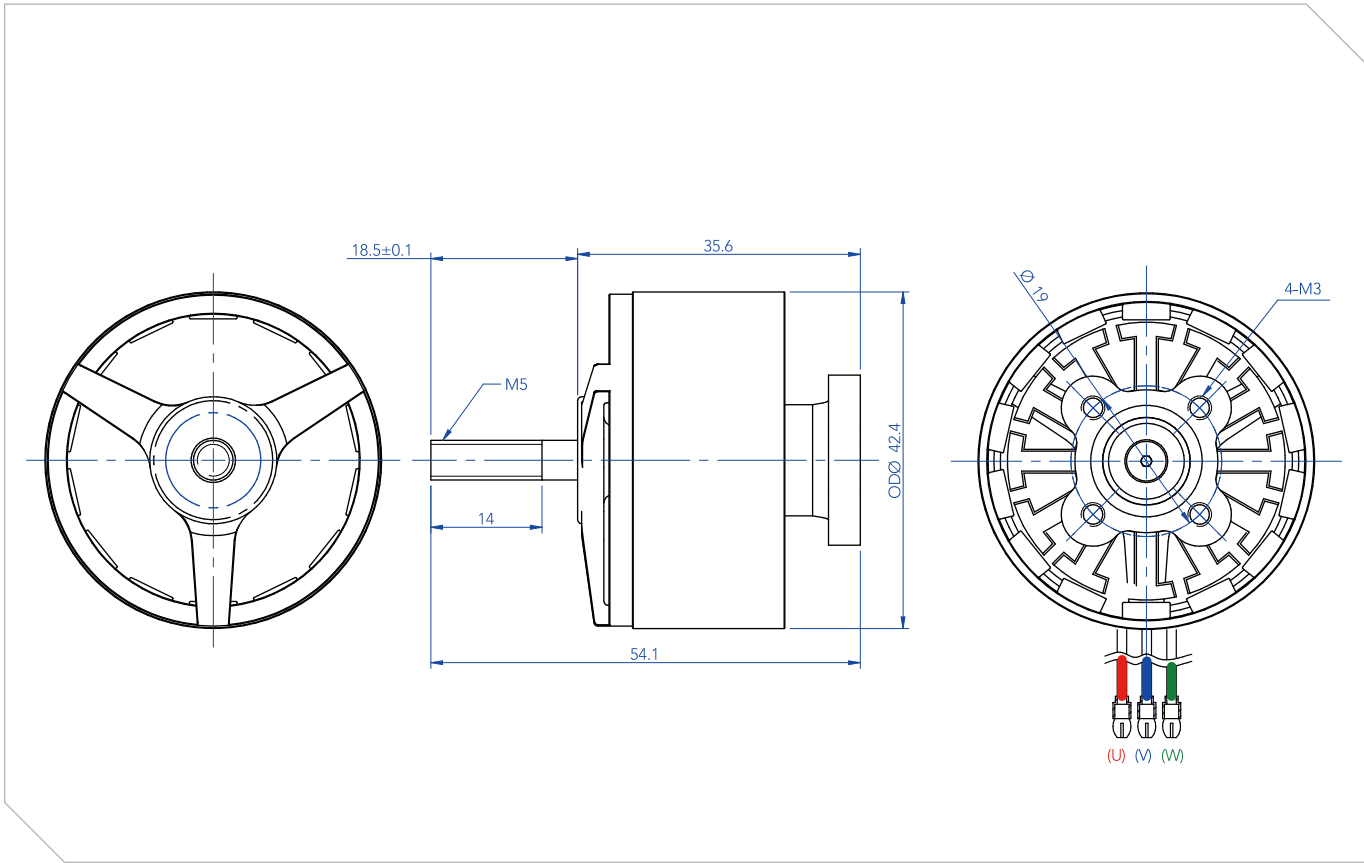
UAV Motor



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



5308 KV280

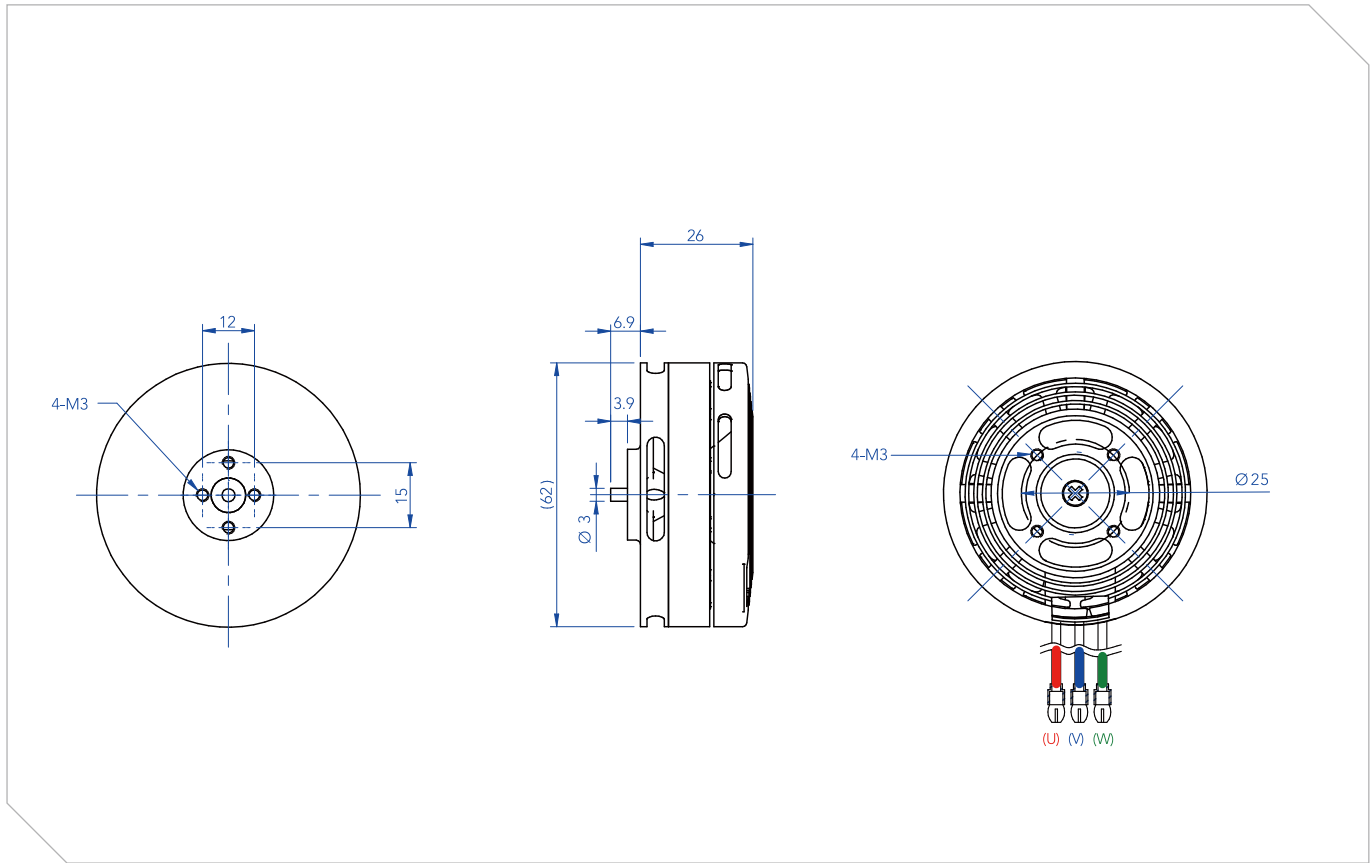
UAV Motor



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



6013 KV210

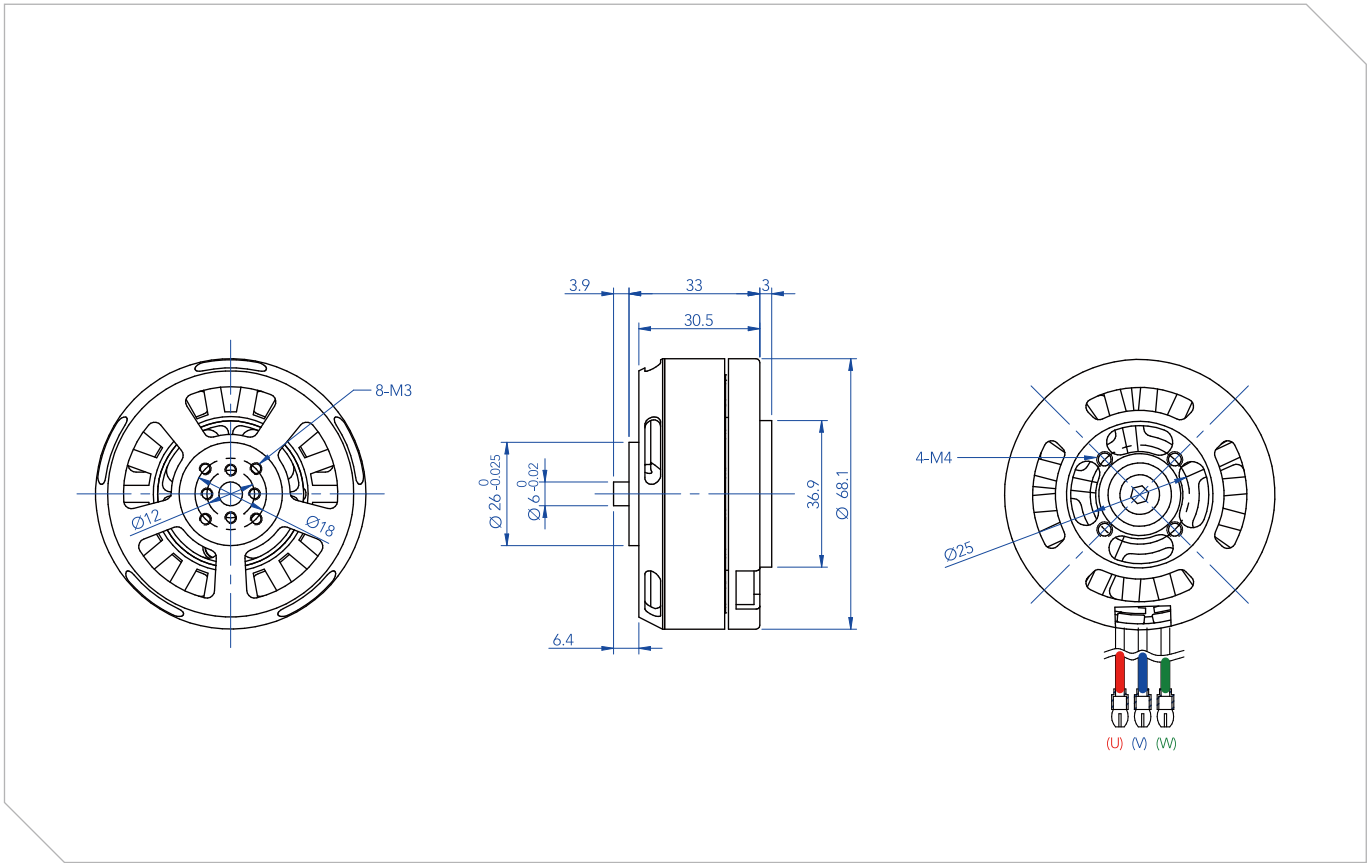
UAV Motor



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



6023 KV220

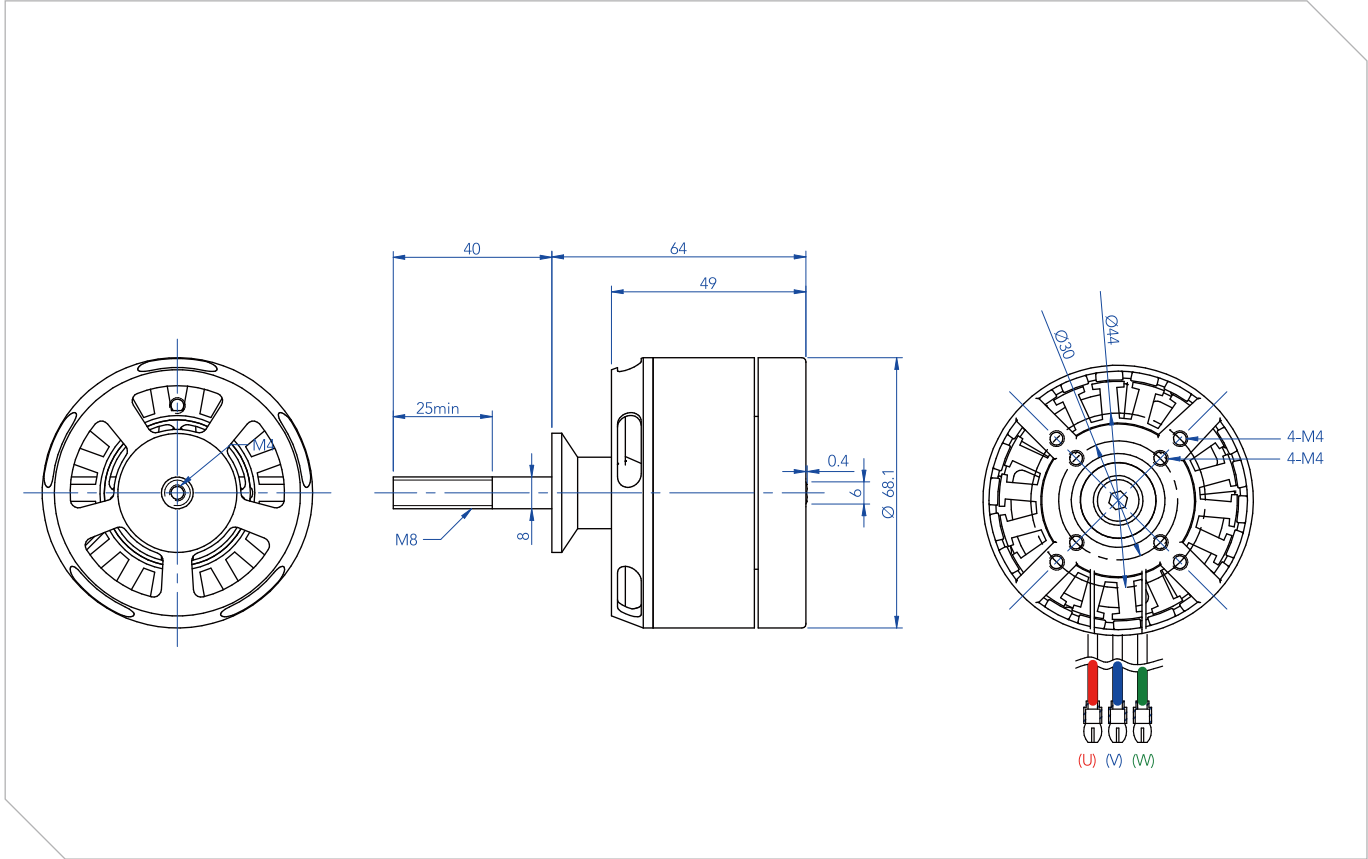
UAV Motor



Specification

- Cells in Series : 12S
- Voltage Range (Vdc) : 42-52
- Slots/Poles Count : 18S/22P
- Max Power (W) : 3400
- Rated Power (W) : 800
- Rated Current (A) : 18
- Max Current (A) : 75
- Max Speed (rpm) : 8000
- Thrust per Watt (g/W) : 7.3 max
- Weight (g) : 515

Dimensions



10010 KV110

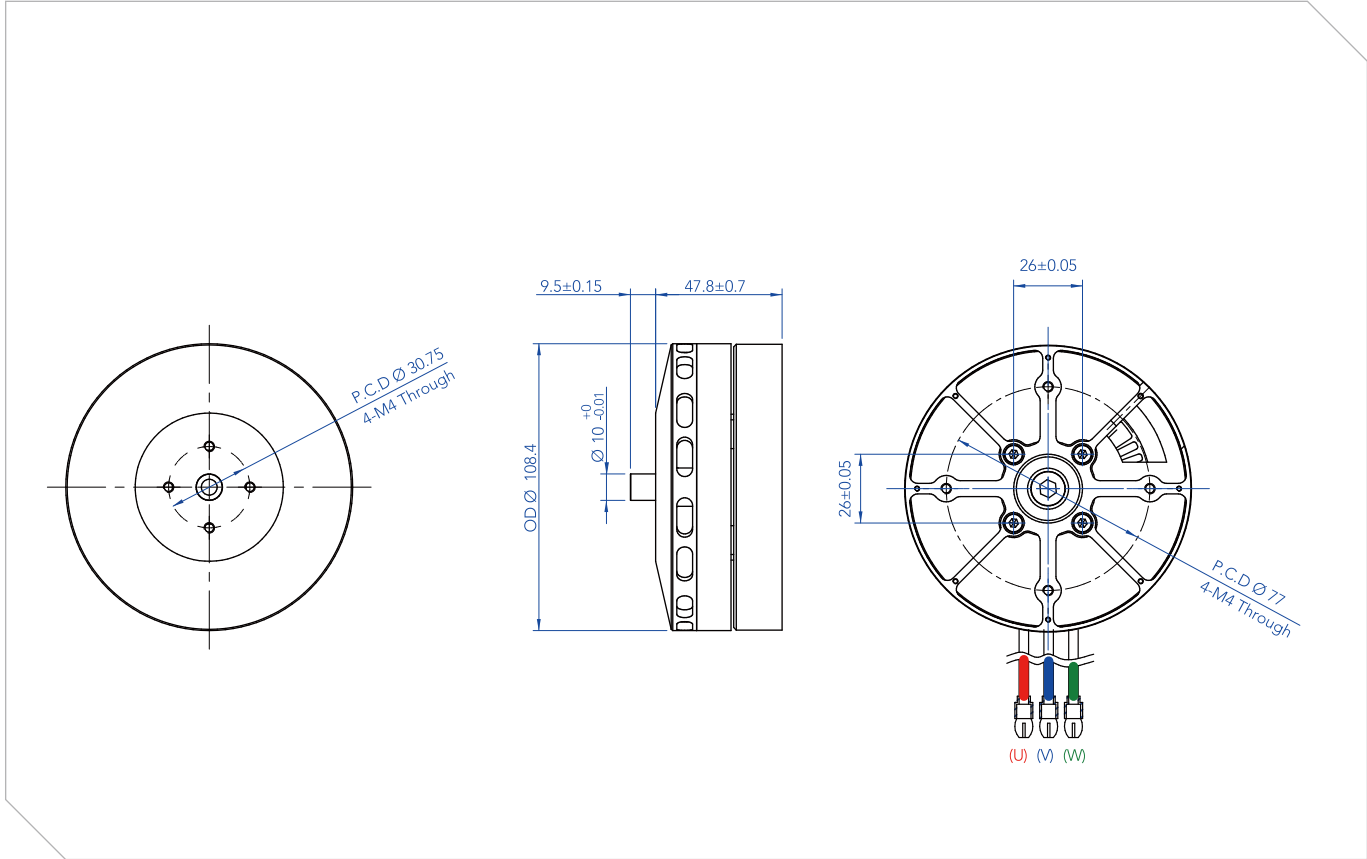
UAV Motor



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



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	60A	40A
Peak Current	30A(10s)	80A(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	3024 KV790 6013 KV210 6023 KV220 10010 KV110



UAV Application in Agriculture and Logistic

TECO's hairpin UAV motors set new benchmarks for agricultural and logistics drones. By combining flat-wire winding with a Halbach Array external-rotor architecture, TECO motors achieve outstanding power density and thermal performance—delivering up to 75 kg of thrust single motor to meet the demands of medium to high duty UAV operations.

TECO demonstrates innovation and manufacturing strength in heavy duty drone powertrain, empowering smart agriculture and the future of material handling.

HD14 46KV

UAV Motor

TE250 210A

Electronic Speed Controller



Specification

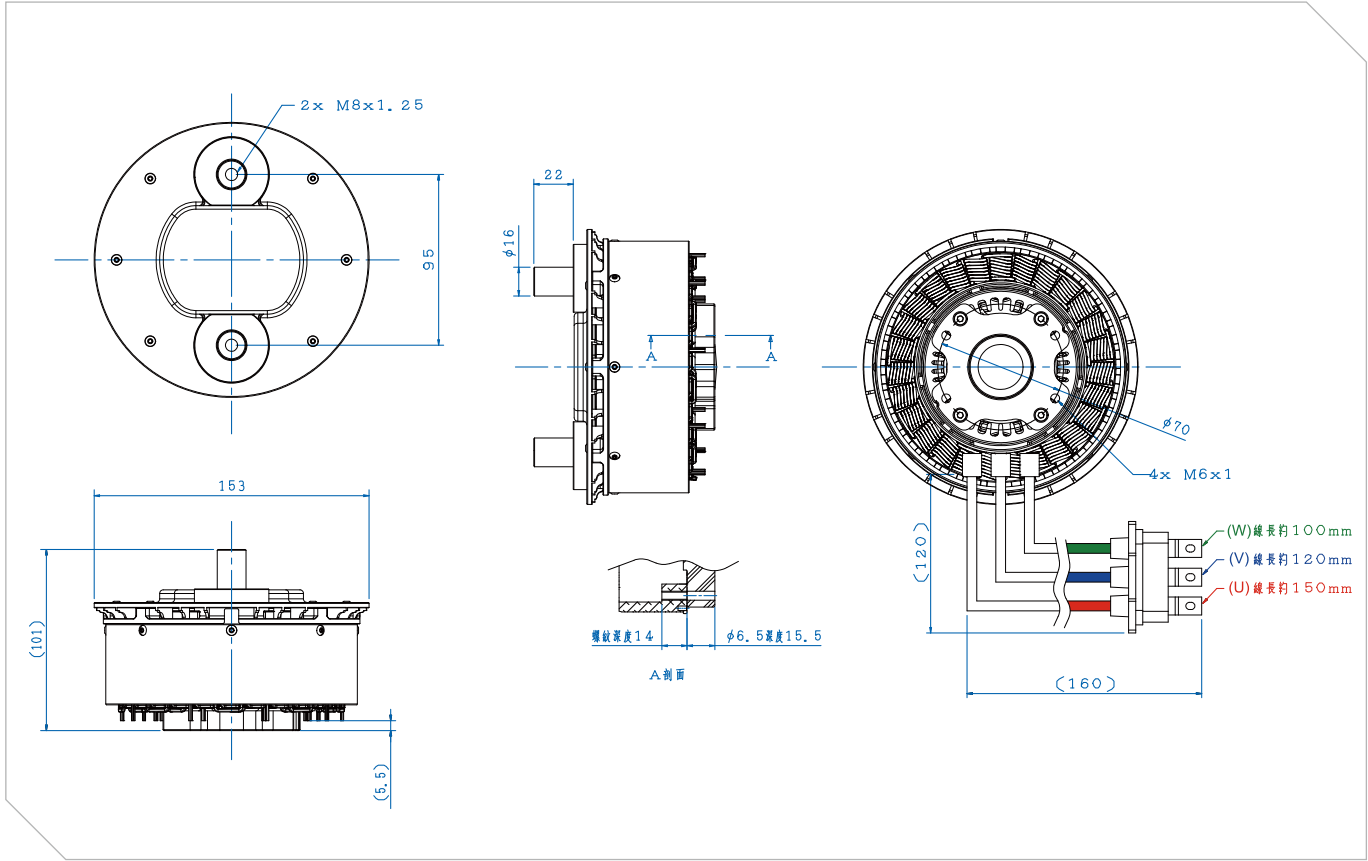
- Cells in Series : 18S
- Voltage Range (Vdc) : 60-74
- Slots/Poles Count : 27S/30P
- Max Power (kW) : 12.9
- Rated Power (kW) : 4.65
- Rated Current (A) : 92
- Max Current (A) : 210
- Max Speed (rpm) : 2500
- Maximum Thrust per motor (kg) : 75
- Weight (kg) : 3.5
- Recommended propeller size (inch) : 63x24



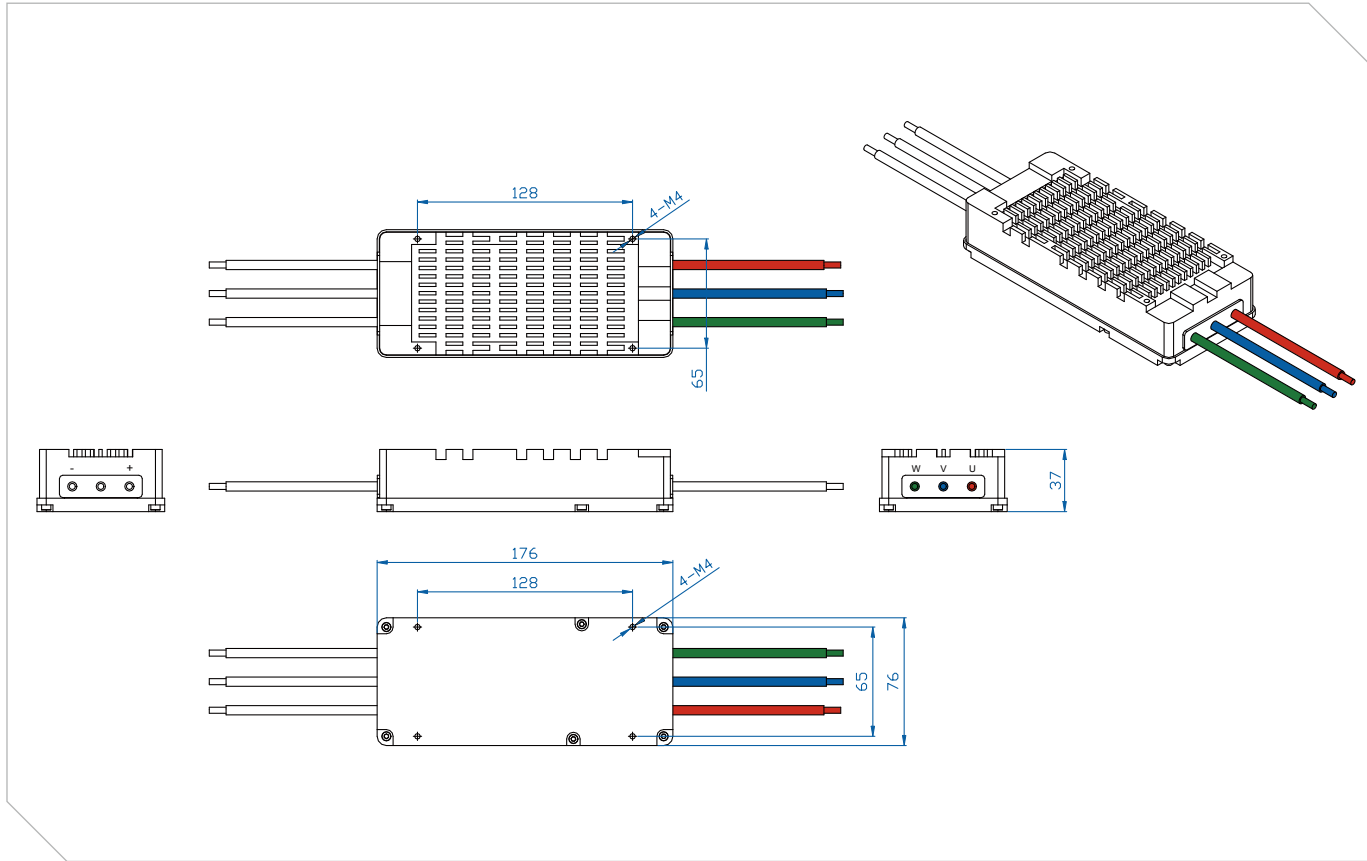
Specification

- Input (Vdc) : 60-74
- Rated Current (Arms) : 92
- Peak Current (Arms) : 230
- Communication : PWM+CAN
- Size (mm) : 176 x 76 x 37
- Weight excluding wiring (g) : 800
- Recommended motor matching : HD14, MD14

Dimensions



Dimensions



Note

Note



TECO   **Westinghouse**
together, we empower the **Future** 



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