# AMPX ESC 200A(12-24S Electronic Speed Controler

Guangzhou Gesai Intelligent Electronic Technology Co.,

# **Basic Information**

uav-vtoldrone.com

- Place of Origin:
- Brand Name:
- Model Number:
- Price:
- Guangdong, China
- GS ESC 200A(12-24S
- Negotiable

# AMPX 200A HV ESC 3.3V/5V (compatible)

- PWM Input Signal Voltage: 3.3V/5V (compatible)
- Power Wire / Wire Length: 8AWG/190mm
- Supported Lithium Cell Count:

**Product Specification** 

- Dimensions (L\*W\*H):
- Operating Environment
  Temperature:
- Current Limit:
- Highlight:

• Model:

# 161.0\*72.2\*46.8mm

t (-20-65°C)

12~24S

### 200A

Tethered Drone Power Supply Light Weight, high efficiency Tethered Drone Power Supply



# More Images



## AMPX ESC 200A(12-24S)Electronic Speed Controler

Supports dual throttle (CAN digital throttle+PWM analog throttle) control, with priority given to CAN digital throttle control.

Quick response. it will take only 0.60 seconds from starting motor to full speed running.

Good compatibility and stability with special control algorithm for disc motors.

Synchronous freewheeling technolgy can bring better throtle linearity, driving eficiency and automatic energy recovery when lowering motor

speed.

Have output interfaces of RPM and error signal

With CAN communication interface, can be realtime communication with fight control. (Note: This function should be matched with flight control)

Convenient installation screw holes without considering Esc part front and back sides.

The control signal interface is completely isolated from the main power supply, making it safer and more reliable.

### **Protection Function**

### Short Circuit Protection

When the Esc checks to triger the shor-circuit protection, the Esc shuts down the output. 100ms later the Esc automatically restores to restart. Stall Protection

If the Esc detects a motor stall.triggering stall protection, the throttle must be returned to zero and then advanced again to restore normal operation Voltage Protection

Upon power-up, if the Esc detects battery voltage below 40V or above 105v, it will emit an alarm sound and not start the motor. This protection is disabled during flight.

### Temperature Protection

During fight if the temperature of the Esc is higher than 125'c, it wil generate a fault signal and start reducing the outout power to 50% of themaximum value. If the temperature continues to rise to 140'c, the Esc wil turn off the output, and the normal output will not be restored untilthe throtle setting is rese to zero. When the temperature drops to 80'c, the maximum output power of the esc starts to rise.

### Throttle Loss Protection

If the Esc detects a loss of throtle signal for more than 2 seconds, it wil cut power, Power wil be restored tothe previous level once the signal is regained Startup Protection

If the motor is not started within 10 seconds after increasing the throttle the Esc wil shut down the output. Normal operation can be restored by returning the throttle to zero and then advancing it again.

### Throttle calibratior setting

Connect the motor first, push the throttle to the maximum, then power up. After hearing two "bi bi" sounds, pull the throttle to the minimumWhen you hea "DO Mi sO" sound, it indicates that the throttle range setting is successful.





# CONTINUOUS 200A CURRENT 200A PROTECTION IPX4 SUPPORTED LITHIUM 12~24S

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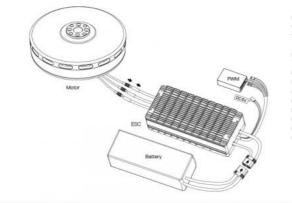
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### ESC Connection

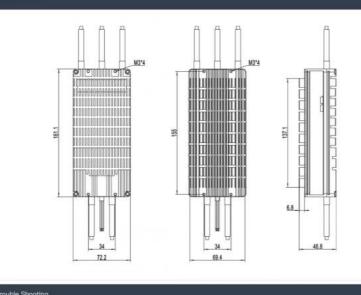


Black Wire: Ground Wire White Wire: Throttle Signal Wire Yellow Wire: Fault Signal Line (Normal High, Fault Low) Blue Wire: Speed Signal Line (RPM)

- RPM Cor M RPM=E FRE\*60/P M\_ RPM: Motor Speed
- E\_ FRE: Motor Electrical Frequency(RPM signal frequency) P: Number of Magnets (Poles) on the Motor Red: CANH Green: CANL

Model	AMPX 200A HV ESC	Supported Lithium Cell Count	12~245
BEC	5V/200MA output	Throttle Pulse Width	Default 1050us-1940us, supports throttle calibratio
PWM Input Signal Voltage	3.3V/5V (compatible)	Dimensions (L*W*H)	161.0*72.2*46.8mm
Online Update	Supported	Protection Level	IPX4
Throttle Loss Protection	Supported	Phase Short Circuit Protection	Supported
Error Signal Output	Supported	CAN communication	Supported
Voltage Protection	Supported	Weight (excluding wires)	Approximately 580g
Motor stall protection	Supported	Operating Environment Temperature	(-20~65°C)
RPM Signal Output	Supported	Continuous Current	200A (Requires good heat dissipation conditions)
Temperature Detection	Not Supported	Current Limit	200A
Power Wire / Wire Length	8AWG / 190mm	Motor Wire / Wire Length	8AWG / 170 mm Signal Wire Length 420 mm

### ESC Dimension



Problem	Alarm	Cause	Solution
Motor can't start after powering on.	Quick noise of beep beep beep	Throttle is not made zero.	Adjust throttle stroke to bottom
Motor can't start after powering on.	Beep. beep. beep every 1 second.	Receiver has not throttle output signal.	Check sender and receiver co-work condition, check throttle control lines
Voltage is less than 40V.	Beep beep, beep beep every 1 second.	Battery voltage is too low.	Change full power battery.
Voltage is more than 105V.	Beep beep, beep beep every 1 second.	Battery voltage is too high	Change proper full power battery.
Temperature is higher than 125 centigrade degree.	Beep beep beep, beep beep beep every 1 second.	ESC temperature is too high.	Please cool down the ESC in a ventilated place
The power-on current or short-circuit protection is abnormal	Beep beep beep beep,beep beep beep beepevery 1 second.	Overload	Replace the propeller with appropriate one

### Disclaimer

Thank you for choosing this product. Please carefully read this manual before using this product. Using this product will indicate you're agreed with the all items in this manual. Please strictly follow these items during usage. We'll not commit any responsibility including but not limited to indirect loss or joint responsibility caused by improper usage, private modification and other faults. The maximum compensation will be not more than the cost of product itself.

Please follow local laws and regulations to legally use this product in flight, and be sure to stay away from people, high-tension lines, and

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# **Our Services**

1. We provide 1 Year Warranty. Buy with confidence.

2. If you are not satisfied when you receive your item, please return it within 14 days for a replacement or money back. Please contact me before you return it.

3. If item is defective in 3 months, We will send you a replacement without extra charger, or offer refund after we receive the defective item.

4. If item is defective after 3 months, you can still send it back to us. We will send you a new one after receiving the defective item. But you have to pay the extra shipping fee.



# FAQ

Q1: Do you support OEM/ODM?

A1: Yes. We can print your logo on the product.

Q2: About samples.

 A2: Under normal circumstances, samples will be ready within 7 days, and 10-20 days for OEM/ODM orders. Sample fee and shipping will be charged. Q3: What is the delivery time?
 A3: For regular orders, we can ship within 15 days, for OEM/ODM, we can ship within 25-45 days (depending on the quantity). In the event of delays, we will notify you in advance of the status and resolution. Q4: What is the minimum order quantity? A4: There is no MOQ for wholesale (1 piece accepted), including OEM/ODM.

4. There is no wood for wholesale (1 piece accepted), including OEW/O Q5: What are your payment terms?

A5: L/C.TT100%.

Q6: Can you reduce the shipping cost?

A6: When calculating the shipping cost for you, we always choose the cheapest and safest express. Although we have partnerships with shipping companies, we can't keep costs down because it's not us who get paid. If you think it's expensive for you. You can always make your own choice.

Q7: Return policy.

A7: If you want to replace the received item, you must contact us within 7 days after receiving the item. Returned items should be in their original condition and you should pay for additional shipping.

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