

# AMPX ESC 300A(12-24S) Electronic Speed Controler

# **Basic Information**

• Place of Origin: Guangdong, China

GS • Brand Name:

• Model Number: AMPX ESC 300A(12-24S)

• Price: Negotiable



# **Product Specification**

Model: AMPX 300A HV ESC • RPM Signal Output: 3.3V/5V (compatible) • Power Wire / Wire Length: 7AWG/200mm 12~24S

Supported Lithium Cell

Count:

Dimensions (L\*W\*H): 176.0\*77.2\*51.0mm

Operating Environment

Temperature:

(-20-65°C)

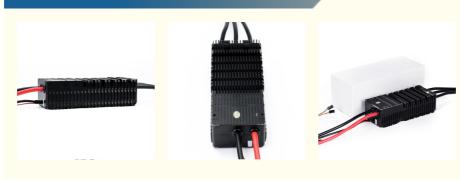
• Current Limi: 300A

• Highlight: 120M Tethered Power.

**Tethered Power System Cable Reel** 



# More Images



# AMPX ESC 300A(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 technology can bring beter throttle linearity, driving efficiency 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 fight 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 trigger the short-circuit protection, the Esc shuts down the output. 100ms later the Esc automaticaly restores to restart.

## Stall Protection

If the Esc detects a motor stall, riggering 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 disable during flight.

## Temperature Protection

During flight, if the temperature of the Esc is higher than 125°c, it wil generate a fault signal and start reducing the output 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 throttle setting is res 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 los of throtle signal for more than 2 seconds, it wil cut power. Power will be restored to the previous level once the signal is regained

## Startup Protection

if the motor is not started within 10 seconds after increasing the throttle, the Esc wilshut 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, pul the throtle to the minimum. When you hear a "DO Mi sO" sound, it indicates that the throttle range setting is successful.

# AMPX 300AV2 12~24SHV

MULTI PROTECTION=MORE SECURITY



CONTINUOUS 300A CURRENT 300A PROTECTION IPX4 SUPPORTED LITHIUM 12~24S

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Have output interfaces of RPM and error signal.

With CAN communication interface, can be real-time communication with flight control. (Note: This function should be matched with flight control)

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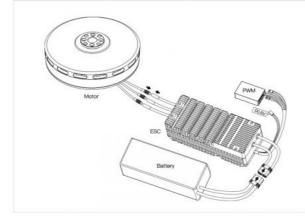
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Throttle Calibratior Setting

Connect the motor first, push the throttle to the maximum, then power up. After hearing two "bi bi" sounds, pull the throttle to the minimum. When you hear a "DO Mi SO" sound, it indicates that the throttle range setting is successful.

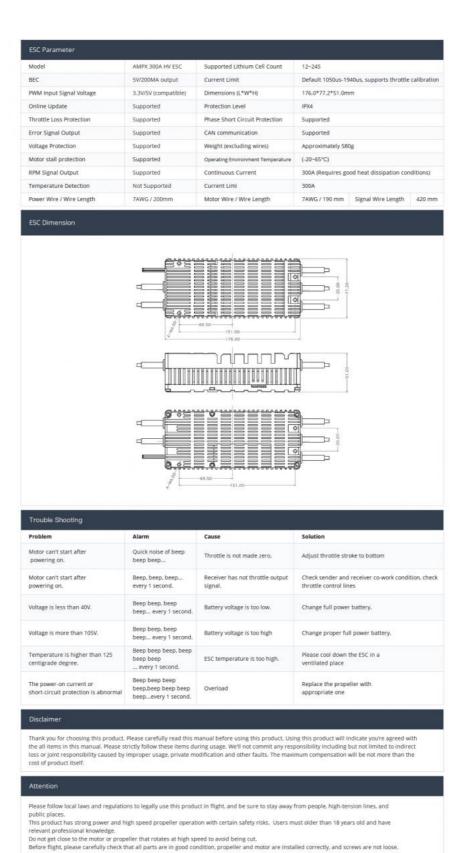
# ESC Connection



Black Wire: Ground Wire Yellow Wire: Fault Signal Line

Blue Wire: Speed Signal Line (RPM) RPM Conversion Formula 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



# **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.

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.



## Guangzhou Gesai Intelligent Electronic Technology Co., Ltd.





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