

## AMPX ESC 120A (12-24S) HV Drone Electronic Speed Controler

## **Basic Information**

• Place of Origin: Guangdong, China

• Brand Name: GS

Model Number: AMPX ESC 120A (12-24S)

• Price: Negotiable



## **Product Specification**

Model: AMPX 120A HV ESC
 PWM Input Signal Voltage: 3.3V/5V (compatible)

• Power Wire / Wire Length: 8AWG/190mm

Supported Lithium Cell

Count:

117.5\*56.3\*42.8mm

Dimensions (L\*W\*H):Operating Environment

Temperature:

(-20~65°C)

12~24S

• Current Limit: 120A

• Highlight: Android System Drone Remote Control,

Android System Drone controller, Skydroid H12 Drone Remote Control



## More Images



## AMPX ESC 120A (12-24S) HV Drone Electronic Speed Controler

Support dual throttle (CAN digital throttle + PWM analog throttle) control, priority 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.

Have output interfaces of RPM and error signal.

With CAN communication interface, can be rea-time 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 and the main power supply are fully isolated, which is 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 automatically restores to restart.

## Stall Protection

If the Esc detects a motor stal, triggering stalprotection, the throtle must be returned to zero and then advanced again to restore normal operation.

### Voltage Protection

Upon power-up, ifthe Esc detects battery voltage below 40V or above 105v, it wil 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 wilgenerate a fault signal and start reducing the output power to 50% of themaximum value. Ifthe 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 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 ofthrotle signal for more than 2 seconds, it wil cut power, Power wil 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 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 a "DO Mi sO" sound, it indicates that the throttle range setting is successful.

# AMPX 120Av2 12~24SHV

MULTI PROTECTION=MORE SECURITY



CONTINUOUS 120A CURRENT 120A PROTECTION IPX4 SUPPORTED LITHIUM 12~24S

Support dual throttle (CAN digital throttle + PWM analog throttle) control, priority 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 better 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 real-time communication with flight 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 and the main power supply are fully isolated, which is safer and more reliable

Short Circuit Protection
When the ESC checks to trigger the short-circuit protection, the ESC shuts down the output. 100ms later the ESC automatically restores to restart.

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.

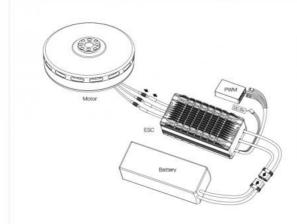
During flight, if the temperature of the ESC is higher than 125°C, it will generate a fault signal and start reducing the output power to 50% of the maximum value. If the temperature continues to rise to 140°C, the ESC will turn off the output, and the normal output will not be restored until the throttle setting is reset to zero. When the temperature drops to 80°C, the maximum output power of the esc starts to rise.

If the ESC detects a loss of throttle signal for more than 2 seconds, it will cut power. Power will be restored to the previous level once the signal is regained.

Startup Protection

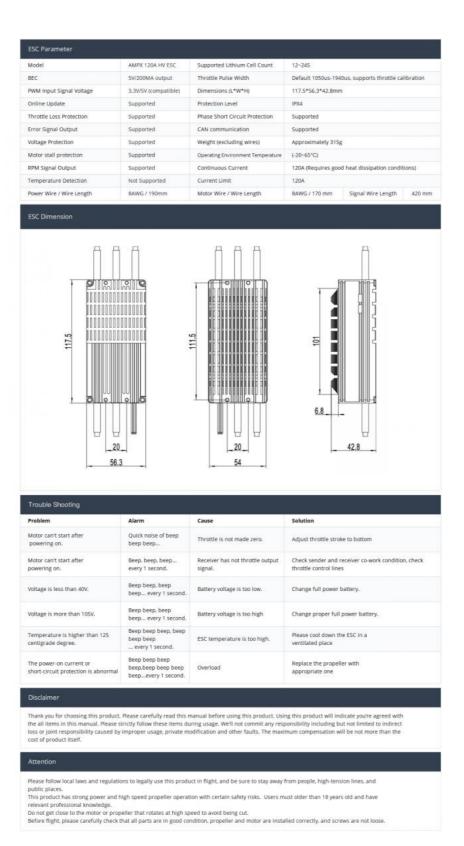
If the motor is not started within 10 seconds after increasing the throttle, the ESC will shut down the output. Normal operation can be restored by returning the throttle to zero and then advancing it again.

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 minimum. When you hear a "DO MI 50" sound. It indicates that the throttle range setting is successful.



White Wire: Throttle Signal Wire (Normal High, Fault Low)

M. RPM: Motor Speed 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.





Kellyyangjing2021@outlook.com



uav-vtoldrone.com

Fuli Yingtong Building, the Pearl River New Town, Tianhe District, Guangzhou, Guangdong, China