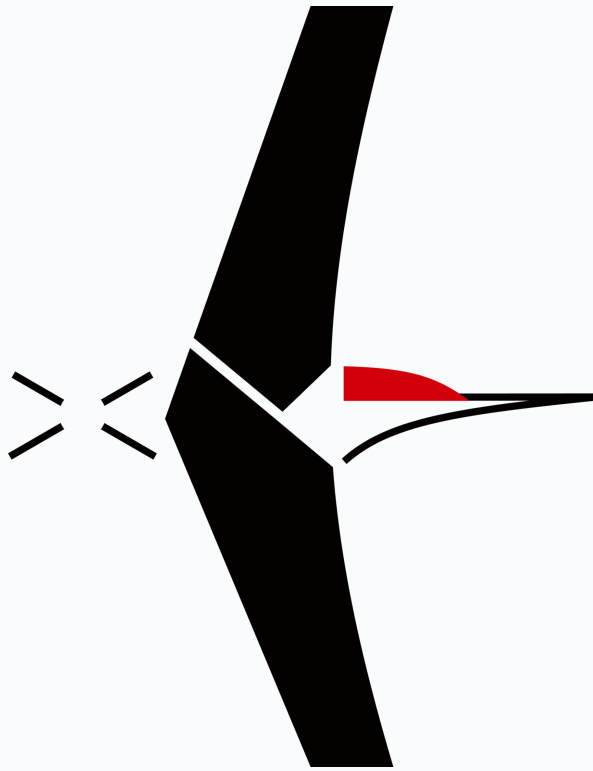




Flameback

Advanced Propulsion Systems

Electronic Speed Controller 45A 3-6S

Technical Specifications

FB-ESC-45A6S

Product Overview

Equipped with layers of advanced safety features including temperature protection and low RPM Power protection, Flameback Electronic Speed Controllers (ESCs) are the new gold standard in Brushless Motor Control for the global UAS / Drones Ecosystem.

These ESCs possess a highly dense power-to-size and power-to-weight ratios in their category, which dawns a new era of Brushless Speed Controllers. These are well-suited for multirotors as well as other BLDC applications.

Flameback's advanced systems have been tested by customers in very demanding environments. These systems are fully engineered and calibrated to the highest performance parameters to ensure maximum endurance and longevity.

These ESCs incorporate the latest and greatest MOSFET and PCB technology, and deploy processors which allows us to incorporate smarter features than other available ESCs.

It also has safety features to protect itself - high temperature and low RPM power protection. The ESC provides the smoothest and most efficient drive to the motor.

All components of the ESC are rated to operate up to 85°C and are fabricated with 3 oz copper thickness which ensures that the device performs reliably in challenging environmental conditions. These ESCs are designed, manufactured, assembled and tested completely by Flameback Tech Pvt Ltd.

All core parameters are clearly marked for smooth assembly and quality control procedures. Flameback ESCs are backed by a 1-year manufacturers warranty against defects in materials and workmanship.

What is special about Flameback ESCs?

Our ESCs are engineered to provide smooth and accurate throttle control, high efficiency, and are suitable for a wide range of UAV applications from hobbyist drones to professional aerial vehicles.

Smooth. Reliable. Dense.

Product Specifications

Parameter	Specification
ESC : Motor Configuration	1:1
Internal BEC	No
Voltage rating	3s - 6s LiPo (9.6 - 19.2V)
Current rating	Continuous: 45A Burst: 50A
Signal Frequency	50 Hz - 500 Hz
Product Dimensions (incl. Input capacitor & heat shrinkwrap, excl. Power & signal wires)	45 x 27.5 x 10.85 mm
Weight	19.55g, excl. input capacitor & input power wires
Ambient Temperature	-20 - 75°C
Supported protocols (control signal from flight controller to ESC)	PWM, Oneshot125, Oneshot42, Multishot, DSHOT150, DSHOT300, DSHOT600
Programming / firmware upgrade / change internal parameters	FC Passthrough via signal wires
Environmental Robustness	IP56 pending Resistant to water splashes and dust. Works in mild rain.
Compliance	RoHS pending Electrostatic discharge (ESD) sensitive device
Testing & QA	Visual inspection: IPC-A-600 class 2 Electrical test / flying probe test
Reports / documentation available	PCB inspection report RoHS compliance report Impedance control report

Programming Parameters

Parameters of Flameback ESCs can be changed via FC Passthrough (Configurator Software):

1. Startup Power
2. Temperature Protection
3. Low RPM Power Protection
4. Motor Direction
5. Demag Compensation
6. Motor Commutation Timing
7. Throttle Range Setting
8. Brake on Stop
9. Beep and Signal Volumes

Please contact Team Flameback at hello@flamebacktech.com to adjust these at the production level.

Contact

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