



SPARROW SERIES

PRODUCT BROCHURE



OVERVIEW OF SPARROW SERIES

Sparrow motors and controllers deliver compact, lightweight, and highly efficient motor solutions that ensure enhanced thrust efficiency, longer flight ranges, and reduced operational costs. Critically, ePropelled Sparrow Series elevates the performance of UAVs and drones where China-made commodity motors are being swapped out globally. Sparrow systems provide top-tier, USA-made propulsion solutions with unmatched efficiency and long life. ePropelled’s systems comply with rapidly shifting US trade requirements, such as the National Defense Authorization Act (NDAA).

SPECIFICATIONS FOR SPARROW MOTORS & CONTROLLERS



APM 3115-Kv900

The ePropelled APM 3115-Kv900 Sparrow Series motor is a high-performance, brushless electric motor built for powerful and compact applications.

Kv Rating	Voltage	Maximum Thrust	Motor Dimension	Weight	IP Rating
900Kv	4S – 6S	Up to 4.7 Kg	φ37.2 mm x 51.1 mm	113 g	IP25



APM 4006-Kv380

The ePropelled APM 4006-Kv380 Sparrow Series motor is designed to deliver high thrust efficiency in a compact form factor, featuring frameless stators and rotors, this motor excels in applications where performance and size constraints are critical.

Kv Rating	Voltage	Maximum Thrust	Motor Dimension	Weight	IP Rating
380Kv	4S – 6S	Up to 2.2 Kg	φ44.5 mm x 27 mm	68 g	IP25



APM 6007-Kv320

The ePropelled APM 6007-Kv320 Sparrow Series motor is a high-performance, brushless electric motor designed for demanding applications requiring both power and compactness.

Kv Rating	Voltage	Maximum Thrust	Motor Dimension	Weight	IP Rating
320Kv	4S – 6S	Up to 4.2 Kg	φ67.2 mm x 26 mm	159 g	IP25



APM 7005-Kv230

The ePropelled APM 7005-Kv230 Sparrow Series is a high-performance brushless motor that delivers substantial power in a compact design.

Kv Rating	Voltage	Maximum Thrust	Motor Dimension	Weight	IP Rating
230Kv	6S	Up to 5.3 Kg	φ79 mm x 21.5 mm	189 g	IP25



APM 5010-Kv360

The ePropelled APM 5010-Kv360 Sparrow series is a high-performance, waterproof and dust-resistant brushless motor for light- to medium-duty UAVs, ensuring long life and reliability with superior insulation.

Kv Rating	Voltage	Maximum Thrust	Motor Dimension	Weight	IP Rating
360Kv	6S	Up to 4.8 Kg	φ55.6 mm x 33.9 mm	175 g	IP45



APM 4130-Kv300

The ePropelled APM 4130-Kv300 Sparrow Series motor is a robust, brushless electric motor engineered for high-power applications with an emphasis on performance and reliability.

Kv Rating	Voltage	Maximum Thrust	Motor Dimension	Weight	IP Rating
300Kv	6S – 12S	Up to 10.6 Kg	φ50 mm x 79 mm	405 g	IP25



APM 2207.5-Kv1950

The APM 2207.5-Kv1950 brushless motor combines high thrust density, efficiency, and precision for advanced FPV drones.

Kv Rating	Voltage	Maximum Thrust	Motor Dimension	Weight	IP Rating
1950Kv	3S – 6S	Up to 1.9 Kg	φ26.8 mm x 32.1 mm	34 g	IP25



APM 1404-Kv2900

The APM 1404-Kv2900 motor adopts an active heat dissipation design, maximizing the performance envelope for varying flight conditions and applications.

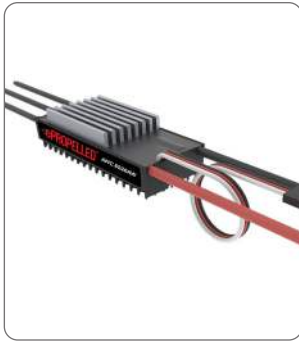
Kv Rating	Voltage	Maximum Thrust	Motor Dimension	Weight	IP Rating
2900Kv	3S – 6S	Up to 0.5 Kg	φ17.9 mm x 16.6 mm	10 g	IP25



AMC 6S20A

The ePropelled AMC 6S20A Sparrow Series is a high-performance ESC for lightweight aircraft propulsion. It efficiently converts DC input into 3-phase AC output, ensuring reliable control and optimal performance for electric motors.

Voltage	Peak Current	Continuous Current	Dimension	Weight	IP Rating
2S – 6S	30 A	20 A	68 mm x 29 mm x 12 mm	30 g	IP20



AMC 6S20AW

The ePropelled AMC 6S20AW Sparrow Series is designed to pair seamlessly with our lightweight propulsion motors, this ESC converts DC input voltage into 3-phase AC output, serving as the vital control unit for the electric motor.

Voltage	Peak Current	Continuous Current	Dimension	Weight	IP Rating
2S – 6S	30 A	20 A	73.4 mm x 30.8 mm x 19.3 mm	68 g	IP55



AMC 6S40A

The ePropelled AMC 6S40A Sparrow Series is designed to pair seamlessly with our lightweight propulsion motors, this ESC converts DC input voltage into 3-phase AC output, serving as the vital control unit for the electric motor.

Voltage	Peak Current	Continuous Current	Dimension	Weight	IP Rating
2S – 6S	60 A	40 A	78.5 mm x 29 mm x 17.5 mm	56 g	IP20



AMC 6S40AW

The ePropelled AMC 6S40AW Sparrow Series is designed to pair seamlessly with our lightweight propulsion motors, this ESC converts DC input voltage into 3-phase AC output, serving as the vital control unit for the electric motor.

Voltage	Peak Current	Continuous Current	Dimension	Weight	IP Rating
2S – 6S	60 A	40 A	73.4 mm x 30.8 mm x 19.3 mm	68 g	IP55

About ePropelled

ePropelled develops advanced propulsion and power systems for uncrewed platforms, built as a unified architecture (ePUA™) rather than standalone components. This reduces integration complexity, accelerates development, and improves operational confidence for OEMs and integrators.

Our solutions support UAVs, UGVs, USVs, robotics, and hybrid-electric platforms, delivering high power density, intelligent energy management, thermal efficiency, extended endurance, and improved mission readiness.

With a focus on performance, connectivity, and scalable electrification, ePropelled powers the next generation of autonomous and uncrewed mobility systems.

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