



FPV Spark FS 2407 Brushless DC Motor With Rotor Balance ≤ 5 Mg

Our Product Introduction

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Basic Information

- Place of Origin: Guangdong, China
- Brand Name: GS
- Model Number: Spark FS2407 1900KV-6S 2600KV - 4S
- Price: Negotiable
- Delivery Time: 6-8
- Payment Terms: T/T
- Supply Ability: 100



Product Specification

- Motor Model: Spark Fs2407 V1.0
- Motor Size: D:29 X 32.3 Mm
- Propeller Mounting Holes Shaft Diameter: M5 Nut
- Shaft Diameter: IN: 4 Mm
- Motor Number Of Slots: 12N14P
- Rotor Balance: ≤ 5 Mg
- Motor Balance: D:16 M3x4
- Cable Length: 150 Mm 20#Awg(Black) Silicone
- Highlight: FPV Spark Brushless DC Motor, 2407 FPV Spark Brushless DC Motor, 2407 Brushless DC Motor



More Images



Product Description

FPV Spark FS 2407 Brushless DC Motor

The FS series of MAD FPV brushless motors is designed for freestyle flying. The development process involved six months of rigorous testing, resulting in refined aesthetics and functionality.

The main difference between the FS and BSC series is the superior quality of the materials used.

1. titanium shaft;
2. 0.15mm silicon steel sheet;
3. High temperature magnets;
4. Secondary anodizing.

Propeller selection: Select a propeller that complements the kilovolt rating and intended use of the motor to maximize efficiency and performance.

Battery and ESC compatibility: Ensure that the selected battery and ESC meet the voltage and current requirements of the motor to prevent damage and optimize performance.

Regular maintenance: check and clean the motor regularly to prevent debris accumulation and ensure smooth operation of the motor.

Cooling and airflow: Maintain proper airflow around the motor to prevent overheating during prolonged or high power use.

SPARK FS2407

ENERGY EFFICIENT 1900KV
ENTHUSIASTS EXTREME EDITION

34.5g

OPTIMIZED
WEIGHT

1952gf



MAXIMUM
THRUST

MAXIMUM THRUST MAY DEPEND ON
BATTERY LEVEL, PROPELLER TYPE,
AIR PRESSURE AND OTHER CONDITIONS.

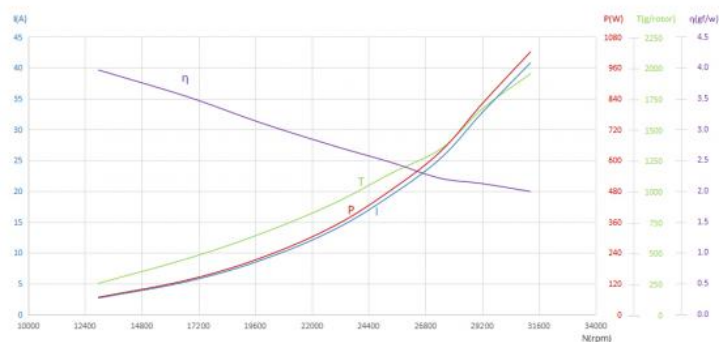


MAD Spark FS2407 1900KV 51466

6S

Analytical Graph of Motor Operation

I - Current, P - Input Power, η - Electrical Efficiency, T - Thrust, N - Rotational Speed
The data above was measured with an input voltage of 24 V, at a temperature of 25°C and sea level. The rotational speed was adjusted by the throttle.

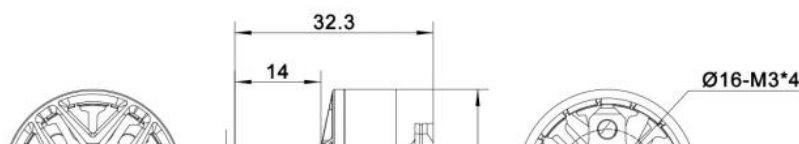


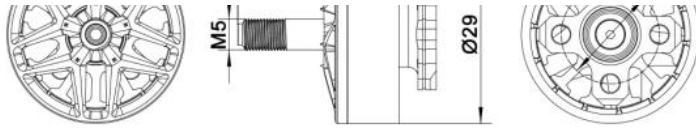
Motor Data

| | | | |
|--------------------------|--|-----------------------|--------------------------------|
| Motor Model | MAD Spark FS2407 V1.0 | Number of pole pairs | 7 |
| Stator | Anticorrosive | Varnished wire Degree | 220°C |
| Motor Size | D:29 x 32.3 mm | Magnet Degree | 150°C |
| Propeller Mounting Holes | M5 Nut | Cable Length | 150 mm 20# Awg(Black) silicone |
| Shaft Diameter | IN: 5 mm | Motor Mounting Holes | D:16 M3x4 |
| Bearing | 6842Z *2 | Disruptive test | 500 V |
| Additional Accessories | M5 Nut *1, M3*5mm *1 Pan head Screws, M3*5mm *4 Cuphead Screw, O-ring *1, Shim *1, MAD Sticker*6 | | |

Specifications

| | | | |
|-----------------|------------|----------------------|-----------------------|
| RPM/V | 1900 KV | Nominal Voltage | 6S |
| No Load Current | 1.4A / 10V | Internal resistance | 40mΩ |
| Motor Weight | 34.5g | Product Boxed Weight | 48g (50 x 50 x 40 mm) |
| Maximum Current | 40.8 A | Maximum Power | 979W |
| Maximum thrust | 1952 g | Maximum Torque | |





| MAD Spark FS2407 1900KV 51466 | | | | | | | 6S |
|-------------------------------|-------------|-------------|-----------------|-------|-------------|-------------------|-----|
| Throttle [%] | Voltage [V] | Current [A] | Input Power [W] | RPM | Thrust [gf] | Efficiency [gf/W] | MAX |
| 30 | 24.00 | 2.65 | 63.6 | 12981 | 252 | 4.0 | |
| 40 | 24.00 | 5.37 | 128.9 | 16774 | 454 | 3.5 | |
| 50 | 24.00 | 8.78 | 210.7 | 19849 | 655 | 3.1 | |
| 60 | 24.00 | 13.73 | 329.5 | 22935 | 901 | 2.7 | |
| 70 | 24.00 | 19.48 | 467.5 | 25410 | 1149 | 2.5 | |
| 80 | 24.00 | 25.41 | 609.8 | 27468 | 1344 | 2.2 | |
| 90 | 24.00 | 32.67 | 784.1 | 29186 | 1664 | 2.1 | |
| 100 | 24.00 | 40.80 | 979.2 | 31241 | 1952 | 2.0 | |
| MAD Spark FS2407 1900KV 4937 | | | | | | | 6S |
| Throttle [%] | Voltage [V] | Current [A] | Input Power [W] | RPM | Thrust [gf] | Efficiency [gf/W] | MAX |
| 30 | 24.00 | 2.82 | 67.7 | 12382 | 262 | 3.9 | |
| 40 | 24.00 | 5.22 | 125.3 | 16040 | 432 | 3.4 | |
| 50 | 24.00 | 8.46 | 203.0 | 19010 | 624 | 3.1 | |
| 60 | 24.00 | 12.81 | 307.4 | 21829 | 848 | 2.8 | |
| 70 | 24.00 | 18.43 | 442.3 | 24525 | 1089 | 2.5 | |
| 80 | 24.00 | 24.27 | 582.5 | 26772 | 1304 | 2.2 | |
| 90 | 24.00 | 32.45 | 778.8 | 29430 | 1635 | 2.1 | |
| 100 | 24.00 | 39.87 | 956.9 | 31120 | 1908 | 2.0 | |

SPARK FS2407

ENERGY EFFICIENT 2600KV
ENTHUSIASTS EXTREME EDITION

33g

OPTIMIZED
WEIGHT

1474gf



MAXIMUM
THRUST

MAXIMUM THRUST MAY DEPEND ON
BATTERY LEVEL, PROPELLER TYPE,
AIR PRESSURE AND OTHER CONDITIONS



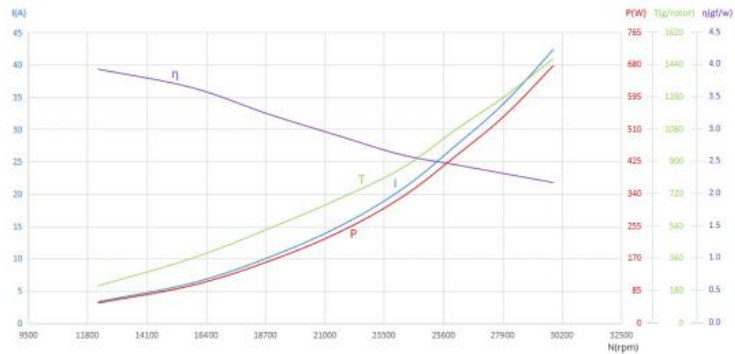
MAD Spark FS2407 2600KV 4937

4S

Analytical Graph of Motor Operation

I – Current, P – Input Power, η – Electrical Efficiency, T – Thrust, N – Rotational Speed

The data above was measured with an input voltage of 16 V, at a temperature of 25°C and sea level. The rotational speed was adjusted by the throttle.

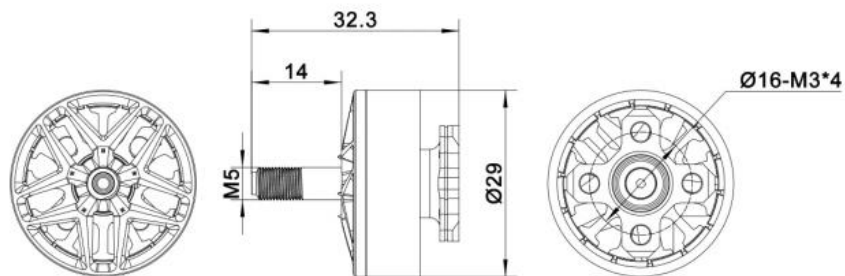


Motor Data

| | | | |
|--------------------------|--|-----------------------|--------------------------------|
| Motor Model | MAD Spark FS2407 V1.0 | Number of pole pairs | 7 |
| Stator | Anticorrosive | Varnished wire Degree | 220°C |
| Motor Size | D:29 x 32.3 mm | Magnet Degree | 150°C |
| Propeller Mounting Holes | M5 Nut | Cable Length | 150 mm 20# Awg(Black) silicone |
| Shaft Diameter | IN: 5 mm | Motor Mounting Holes | D:16 M3x4 |
| Bearing | 684ZZ *2 | Disruptive test | 500 V |
| Additional Accessories | M5 Nut *1, M3*5mm *1 Pan head Screws, M3*5mm *4 Cuphead Screw, O-ring *1, Shim *1, MAD Sticker*6 | | |

Specifications

| | | | |
|-----------------|------------|----------------------|-------------------------|
| RPM/V | 2600 KV | Nominal Voltage | 4S |
| No Load Current | 2.5A / 10V | Internal resistance | 25.5mΩ |
| Motor Weight | 33 g | Product Boxed Weight | 46.5g (50 x 50 x 40 mm) |
| Maximum Current | 42.4 A | Maximum Power | 678W |
| Maximum thrust | 1474 g | Maximum Torque | |



MAD Spark FS2407 2600KV 4937

4S

| Throttle (%) | Voltage [V] | Current [A] | Input Power [W] | RPM | Thrust [g] | Efficiency [g/W] | MAX |
|--------------|-------------|-------------|-----------------|-------|------------|------------------|-----|
| 30 | 16.00 | 3.29 | 52.6 | 12225 | 207 | 3.9 | |
| 40 | 16.00 | 6.19 | 99.0 | 15862 | 361 | 3.6 | |
| 50 | 16.00 | 10.19 | 163.0 | 18853 | 527 | 3.2 | |
| 60 | 16.00 | 15.11 | 241.8 | 21643 | 698 | 2.9 | |
| 70 | 16.00 | 20.87 | 333.9 | 24053 | 868 | 2.6 | |
| 80 | 16.00 | 27.35 | 437.6 | 26045 | 1074 | 2.5 | |
| 90 | 16.00 | 34.05 | 544.8 | 27958 | 1261 | 2.3 | |
| 100 | 16.00 | 42.35 | 677.5 | 29868 | 1474 | 2.2 | |

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