



## FPV Thruster FS 2306 Brushless DC Motor For Industrial

### Our Product Introduction

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#### Basic Information

- Place of Origin: Guangdong, China
- Brand Name: GS
- Model Number: Thruster FS2306 1750KV-6S 1960KV-6S 2550KV-4S
- Price: Negotiable
- Delivery Time: 6-8
- Payment Terms: T/T
- Supply Ability: 100



#### Product Specification

- Motor Model: Thruster Fs2306 V1.0
- Motor Size: D:28.2 X32.2 Mm
- Propeller Mounting Holes M5 Nut  
Shaft Diameter:
- Shaft Diameter: IN: 4 Mm
- Motor Number Of Slots: 12N14P
- Rotor Balance:  $\leq 5$  Mg
- Motor Balance: D:16 M3x4
- Cable Length: 150 Mm 20#Awg(Black) Silicone
- Highlight: **2306 Brushless DC Motor,**  
**2306 FPV Thruster Motor,**  
**FPV Thruster Brushless DC Motor**



#### More Images



## Product Description

### FPV Thruster FS 2306 Brushless DC Motor

Recommended accessories:

1.Motors: 2205/2206/2207/2305/2306

ESC: 30A-50A Propeller: 5 inch Battery: 4S 1500mAh 6s 11 50mAh

2.Motors: 2207 /2207.5/2305/2306/2407

ESC: 35A-60A Propeller: 6 inch Battery: 4S 1500mAh 6s 1300mAh

3.Motors: 2305/2306/2407/2408/2507

ESC: 40A-60A Propeller: 7 inch Battery: 4S 1800mAh 6s 2200mAh

**Optimal propeller matching:** Pair the motor with a propeller suitable for its KV rating and intended use to achieve the best balance of speed and control.

**Battery and ESC compatibility:** Ensure that the battery and ESC match the voltage and current requirements of the motor for optimal performance and to prevent potential damage.

**Regular maintenance:** Check the motor regularly for debris, wear and tear, and clean it if necessary to maintain the best performance.

**Cooling considerations:** Adequate airflow around the motor is essential to prevent overheating, especially during prolonged high-throttle use.

# THRUSTER FS2306

ENERGY EFFICIENT 1750KV  
ENTHUSIASTS EXTREME EDITION

600~800 gf  
RECOMMENDED  
HOVER THRUST  
OPTIMIZED  
WEIGHT 32g

1.62 kgf  
MAXIMUM  
THRUST

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



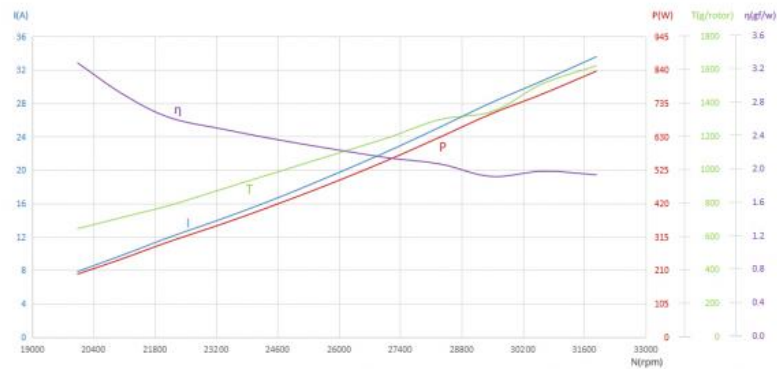
MAD Thruster FS2306 1750KV 51433

6S MAX  
87°C

## Analytical Graph of Motor Operation

I - Current, P - Input Power,  $\eta$  - 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.

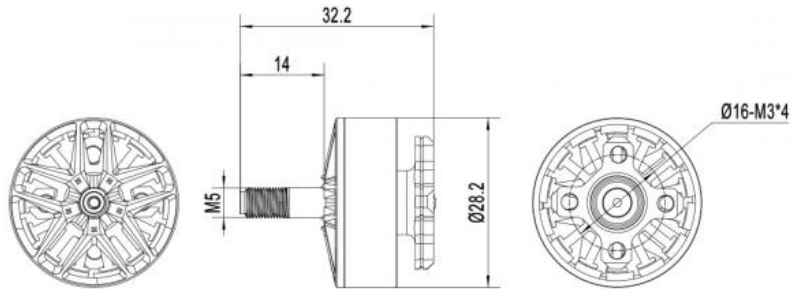


## Motor Data

Motor Model	Thruster FS2306 V1.0	Number of pole pairs	7
Stator	Anticorrosive	Varnished wire Degree	180°C
Motor Size	D:28.2 ×32.2 mm	Magnet Degree	150°C
Degree of Protection	Rain protection	Cable Length	150 mm 20# Awg(Black) silicone
Centrifugal Heat Dissipation	Independent	Rotor Balance	≤5 mg
Propeller Mounting Holes	M5 Nut	Motor Balance	≤10 mg
Shaft Diameter	IN: 4 mm	Motor Mounting Holes	D:16 M3×4
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		

## Specifications

RPM/V	1750 KV	Nominal Voltage	6S
No Load Current	1.37A / 10V	Internal resistance	72mΩ
Motor Weight	32 g	Product Boxed Weight	-
Maximum Current	35.2 A	Maximum Power	873 W
Maximum thrust	1.62 kg	Recommended Propellers	49433 51433
UAV take-off weight	Quadcopter:2.4-3.2kg X8Quadcopter:3.6-4.8kg	Single rotor take-off weight	600g ~ 800g



MAD Thruster FS2306 1750KV 51433

6S

Throttle [%]	Voltage [V]	Current [A]	Input Power [W]	RPM	Thrust [gf]	Efficiency [g/f/W]	MAX
50	25.2	7.84	197.6	20041	649	3.3	87°C
55	25.1	9.85	247.2	21087	718	2.9	
60	25.1	11.94	299.7	22133	788	2.6	
65	25.1	14.25	357.7	23386	889	2.5	
70	25.1	16.73	419.9	24637	991	2.4	
75	25	19.45	486.3	25889	1093	2.2	
80	25	22.30	557.5	27144	1196	2.1	
85	25	25.15	628.8	28313	1302	2.1	
90	25	28.07	701.8	29482	1350	1.9	
95	24.9	30.70	764.4	30651	1517	2.0	
100	24.9	33.57	835.9	31875	1625	1.9	

MAD Thruster FS2306 1750KV 51466

6S

Throttle [%]	Voltage [V]	Current [A]	Input Power [W]	RPM	Thrust [gf]	Efficiency [g/f/W]	MAX
50	25.1	7.87	197.5	19750	637	3.2	92°C
55	25.1	9.62	241.5	20814	706	2.9	
60	25.1	11.97	300.4	21882	776	2.6	
65	25.1	14.40	361.4	23151	884	2.4	
70	25.1	17.03	427.5	24420	993	2.3	
75	25	19.75	493.8	25689	1101	2.2	
80	25	22.44	561.0	26960	1213	2.2	
85	25	25.27	631.8	28042	1313	2.1	
90	24.9	28.53	710.4	29125	1415	2.0	
95	24.9	31.90	794.3	30207	1516	1.9	
100	24.8	35.20	873.0	31291	1609	1.8	

# THRUSTER FS2306

ENERGY EFFICIENT 1960KV  
ENTHUSIASTS EXTREME EDITION

600~800 gf  
RECOMMENDED  
HOVER THRUST  
OPTIMIZED  
WEIGHT 32g

1.7 kgf  
MAXIMUM  
THRUST

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



MAD Thruster FS2306 1960KV 51477

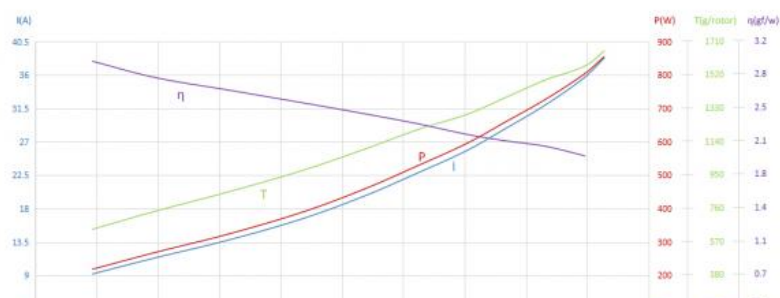
6S

MAX  
97°C

Analytical Graph of Motor Operation

I - Current, P - Input Power,  $\eta$  - 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.





Specifications			
RPM/V	1960 KV	Nominal Voltage	6S
No Load Current	1.37A / 10V	Internal resistance	63mΩ
Motor Weight	32 g	Product Boxed Weight	-
Maximum Current	38.3 A	Maximum Power	854.6 W
Maximum thrust	1.7 kg	Recommended Propellers	51433 51466 51477
UAV take-off weight	Quadcopter:2.4-3.2kg X8Quadcopter:3.6-4.8kg	Single rotor take-off weight	600g ~ 800g

MAD Thruster FS2306 1960KV 51433							6S
Throttle [%]	Voltage [V]	Current [A]	Input Power [W]	RPM	Thrust [gf]	Efficiency [gf/W]	MAX
50	23.81	7.97	189.8	18826	546	2.9	87℃
55	23.7	9.72	230.4	20148	628	2.7	
60	23.6	12.07	284.9	21764	733	2.6	
65	23.52	14.50	341.0	23131	837	2.5	
70	23.43	17.13	401.4	24572	932	2.3	
75	23.31	19.98	465.7	25618	1036	2.2	
80	23.19	22.67	525.7	26765	1124	2.1	
85	23.07	25.50	588.3	27935	1223	2.1	
90	22.92	28.76	659.2	28987	1319	2.0	
95	22.73	32.13	730.3	29717	1383	1.9	
100	22.56	35.10	791.9	30664	1500	1.9	

MAD Thruster FS2306 1960KV 51466							6S
Throttle [%]	Voltage [V]	Current [A]	Input Power [W]	RPM	Thrust [gf]	Efficiency [gf/W]	MAX
50	23.8	8.62	205.2	18300	633	3.1	92℃
55	23.72	10.71	254.0	19671	739	2.9	
60	23.6	13.12	309.6	21172	852	2.8	
65	23.47	15.86	372.2	22453	973	2.6	
70	23.36	18.89	441.3	23706	1090	2.5	
75	23.25	21.75	505.7	24837	1188	2.4	
80	23.12	24.82	573.8	25906	1278	2.2	
85	23.01	27.55	633.9	26695	1368	2.2	
90	22.82	31.10	709.7	27657	1470	2.1	
95	22.61	34.66	783.7	28364	1495	1.9	
100	22.42	37.10	831.8	29036	1604	1.9	

MAD Thruster FS2306 1960KV 51477							6S
Throttle [%]	Voltage [V]	Current [A]	Input Power [W]	RPM	Thrust [gf]	Efficiency [gf/W]	MAX
50	23.75	9.18	218.0	18122	642	2.9	97℃
55	23.66	11.36	268.8	19358	745	2.8	
60	23.53	13.73	323.1	20770	854	2.6	
65	23.41	16.61	388.8	22222	976	2.5	
70	23.29	19.67	458.1	23436	1097	2.4	
75	23.17	22.80	528.3	24485	1209	2.3	
80	23.05	25.88	596.5	25463	1298	2.2	
85	22.92	28.67	657.1	26174	1388	2.1	
90	22.74	31.98	727.2	26985	1492	2.1	
95	22.52	35.71	804.2	27752	1571	2.0	
100	22.32	38.29	854.6	28131	1657	1.9	

# THRUSTER FS2306

ENERGY EFFICIENT 2550KV  
ENTHUSIASTS EXTREME EDITION

500~600gf  
RECOMMENDED  
HOVER THRUST

OPTIMIZED  
WEIGHT 32g

1.3kgf

MAXIMUM  
THRUST

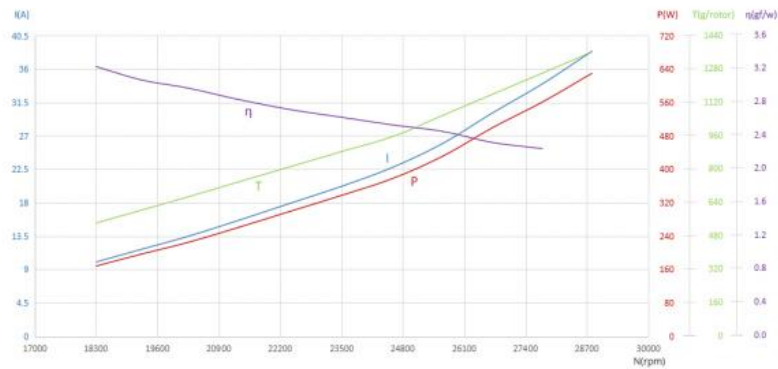
MAXIMUM THRUST MAY DEPEND ON  
BATTERY LEVEL, PROPELLER TYPE,  
AIR PRESSURE AND OTHER CONDITIONS



MAD Thruster FS2306 2550KV 4943*3			4S	MAX 94℃
Analytical Graph of Motor Operation				



I – Current, P – Input Power,  $\eta$  – 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.



#### Specifications

RPM/V	2550 KV	Nominal Voltage	4S
No Load Current	1.96A / 10V	Internal resistance	47.5mΩ
Motor Weight	32 g	Product Boxed Weight	-
Maximum Current	38.7 A	Maximum Power	634.7 W
Maximum thrust	1.3 kg	Recommended Propellers	4943*3 5143*3
UAV take-off weight	Quadcopter-2-2.4kg X8quadcopter-3-3.6kg	Single rotor take-off weight	500g ~ 600g

**MAD Thruster FS2306 2550KV 4943\*3**

**4S**

Throttle (%)	Voltage [V]	Current [A]	Input Power [W]	RPM	Thrust [gf]	Efficiency [gf/W]	MAX
50	16.80	10	168.0	18304	543	3.2	94°C
55	16.80	11.7	196.6	19262	604	3.1	
60	16.70	13.4	223.8	20222	666	3.0	
65	16.70	15.6	260.5	21316	739	2.8	
70	16.70	17.9	298.9	22410	812	2.7	
75	16.70	20.2	337.3	23504	885	2.6	
80	16.60	22.8	378.5	24599	958	2.5	
85	16.60	26	431.6	25651	1059	2.5	
90	16.60	30.1	499.7	26703	1160	2.3	
95	16.50	34	561.0	27755	1261	2.2	
100	16.40	38.4	629.8	28807	1362	2.2	

**MAD Thruster FS2306 2550KV 5143\*3**

**4S**

Throttle (%)	Voltage [V]	Current [A]	Input Power [W]	RPM	Thrust [gf]	Efficiency [gf/W]	MAX
50	16.70	10.4	173.7	18080	512	2.9	91°C
55	16.70	12.05	201.2	19068	568	2.8	
60	16.70	13.7	228.8	20056	626	2.7	
65	16.60	16.25	269.8	21108	704	2.6	
70	16.60	18.7	310.4	22160	782	2.5	
75	16.60	21.15	351.1	23212	860	2.4	
80	16.60	23.6	391.8	24264	940	2.4	
85	16.50	27.37	451.6	25277	1037	2.3	
90	16.50	31.14	513.8	26288	1134	2.2	
95	16.50	34.91	576.0	27299	1231	2.1	
100	16.40	38.7	634.7	28312	1328	2.1	

## 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](mailto:Kellyyangjing2021@outlook.com)



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