



CM 4520 FPV Brushless DC Motor With 7 Pole Pairs

Our Product Introduction

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Basic Information

- Place of Origin: Guangdong, China
- Brand Name: GS
- Model Number: CM 4520 350KV
- Price: Negotiable



Product Specification

- Motor Model: BADGER CM4520 V1.0
- Motor Size: D:53 X74.7 Mm
- Propeller Mounting Holes: M6 Nut
- Shaft Diameter: IN: 6 Mm
- Bearing: 606 ZZ*3
- Number Of Pole Pairs: 7
- Varnished Wire Degree: 220°C
- Motor Balance: 180°C
- Cable Length: 750 Mm 14# Awg Silicone
- Motor Mounting Holes: D:30 M4x4
- Disruptive Test: 500 V
- Highlight: CM 4520 Brushless DC Motor,
FPV Brushless DC Motor,
CM 4520 FPV Brushless DC Motor



More Images



CM 4520 FPV Brushless DC Motor

The CM Series is the highest dust level motor and the best heat dissipation among FPV motors, specially designed for film shooting work.

1. Two ultra-thin stainless steel dust filters are added inside the stator.
2. The split exhaust blade is added inside the rotor.

BADGER CM4520

ENERGY EFFICIENT 350KV

X8 FILM CIMATIC LIFTER MAKER

383 g

10.9 kgf

OPTIMIZED WEIGHT

MAXIMUM THRUST

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



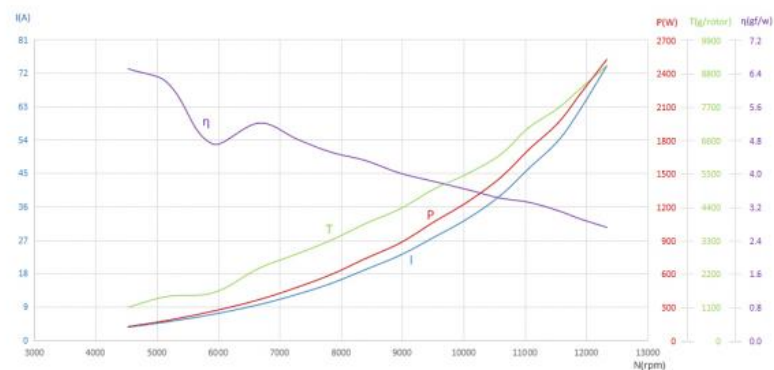
MAD BADGER CM4520 350KV MAS 13x12x3 Carbon Fiber

12S MAX 57°C

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 48 V, at a temperature of 25°C and sea level. The rotational speed was adjusted by the throttle.

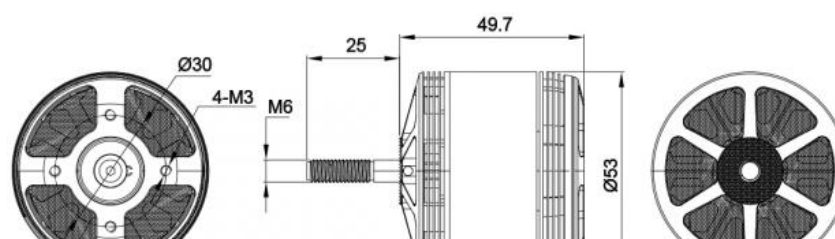


Motor Data

Motor Model	MAD BADGER CM4520 V1.0	Number of pole pairs	7
Stator	Anticorrosive	Varnished wire Degree	220°C
Motor Size	D:53 × 49.7 mm	Magnet Degree	180°C
Degree of Protection	IP45	Cable Length	750 mm 14# Awg(Red/Black) silicone
Centrifugal Heat Dissipation	YES	Rotor Balance	±5 mg
Propeller Mounting Holes	M6 Nut	Motor Balance	±10 mg
Shaft Diameter	IN: 6 mm	Motor Mounting Holes	D:30 M3×4
Bearing	606 ZZ *3	Disruptive test	500 V
Additional Accessories	M3*8mm *4 Cup head Screws , M6 Nut*1 , Propeller Plate *1 , MAD Sticker*6		

Specifications

RPM/V	350KV	Nominal Voltage	6S
No Load Current	1.35A / 20V	Internal resistance	39.9mΩ
Motor Weight	383 g	Product Boxed Weight	630 g
Maximum Current	99.5 A	Maximum Power	4473W
Maximum thrust	10.9 kg	Maximum Torque	2.54 Nm
Recommended ESC	—	Recommended Propellers	13X8X3 15X7X3 APC 15X8



MAD BADGER CM4520 350KV 13x8x3 Carbon Fiber

12S

Throttle [%]	Voltage [V]	Current [A]	Input Power [W]	Output Power [W]	Torque [N·m]	RPM	Thrust [gf]	Efficiency [gf/W]	MAX
30	47.85	3.46	165.6	120.1	0.253	4532	1076	6.5	57°C
35	47.78	4.84	231.3	173.5	0.322	5146	1425	6.2	
40	47.68	6.91	329.5	258.7	0.418	5911	1553	4.7	
45	47.60	9.59	456.5	364.3	0.521	6678	2375	5.2	
50	47.46	12.41	589.0	477.5	0.624	7308	2855	4.8	
55	47.44	15.27	724.4	589.0	0.717	7844	3289	4.5	
60	47.28	18.99	897.8	732.0	0.832	8402	3836	4.3	
65	47.15	22.83	1076.4	870.9	0.928	8962	4320	4.0	
70	47.01	27.67	1300.8	1060.2	1.064	9515	4967	3.8	
75	46.85	32.81	1537.1	1244.8	1.180	10074	5489	3.6	
80	46.60	38.97	1816.0	1458.9	1.314	10602	6111	3.4	
85	46.43	46.29	2149.2	1712.7	1.478	11066	7004	3.3	
90	46.22	53.73	2483.4	1952.0	1.615	11542	7640	3.1	
95	45.90	62.31	2860.0	2214.5	1.776	11907	8289	2.9	
100	45.51	73.92	3364.1	2521.4	1.952	12335	9037	2.7	

MAD BADGER CM4520 350KV 15x7x3 Carbon Fiber

12S

Throttle [%]	Voltage [V]	Current [A]	Input Power [W]	Output Power [W]	Torque [N·m]	RPM	Thrust [gf]	Efficiency [gf/W]	MAX
30	47.90	4.77	228.5	165.2	0.361	4371	1627	7.1	119°C
35	47.83	6.74	322.4	242.3	0.467	4955	2130	6.6	
40	47.69	9.78	466.4	363.2	0.614	5649	2803	6.0	
45	47.58	13.95	663.7	523.1	0.786	6355	3567	5.4	
50	47.42	18.17	861.6	680.8	0.939	6924	4262	4.9	
55	47.27	22.6	1068.3	844.8	1.085	7435	4898	4.6	
60	47.09	27.62	1300.6	1025.7	1.240	7899	5582	4.3	
65	46.90	33.86	1588.0	1245.4	1.425	8346	6362	4.0	
70	46.70	40.76	1903.5	1477.1	1.600	8816	7110	3.7	
75	46.49	48.01	2232.0	1715.6	1.774	9235	7849	3.5	
80	46.24	56.71	2622.3	1970.1	1.957	9613	8714	3.3	
85	45.91	65.55	3009.4	2211.2	2.116	9979	9337	3.1	
90	45.68	75.48	3447.9	2438.8	2.263	10291	9955	2.9	
95	45.33	86.62	3926.5	2632.9	2.397	10489	10438	2.7	
100	44.97	99.46	4472.7	2865.9	2.538	10783	10902	2.4	

MAD BADGER CM4520 350KV APC 15X8

12S

Throttle [%]	Voltage [V]	Current [A]	Input Power [W]	Output Power [W]	Torque [N·m]	RPM	Thrust [gf]	Efficiency [gf/W]	MAX
30	47.86	3.67	175.6	124.6	0.266	4473	1319	7.5	108°C
35	47.80	5.27	251.9	185.9	0.349	5087	1724	6.8	
40	47.70	7.85	374.4	288.3	0.470	5857	2295	6.1	
45	47.58	10.92	519.6	413.2	0.602	6554	2881	5.5	
50	47.46	14.41	683.9	548.2	0.733	7142	3481	5.1	
55	47.35	17.96	850.4	676.5	0.844	7654	3998	4.7	
60	47.19	22.73	1072.6	860.9	1.007	8164	4658	4.3	
65	47.01	28.02	1317.2	1054.5	1.167	8629	5230	4.0	
70	46.81	34.58	1618.7	1288.3	1.354	9086	5724	3.5	
75	46.58	42.14	1962.9	1547.3	1.553	9514	6289	3.2	
80	46.34	50.43	2336.9	1807.6	1.739	9926	6796	2.9	
85	46.07	59.82	2755.9	2082.5	1.939	10256	7352	2.7	
90	45.79	69.1	3164.1	2334.6	2.102	10606	7886	2.5	
95	45.47	77.96	3544.8	2558.6	2.249	10864	8461	2.4	
100	45.05	91.2	4108.6	2816.9	2.424	11097	9127	2.2	

Use the power system properly according to the following performance parameters. It is recommended to fly under the recommended take-off weight for best performance. Do not fly overweight. Take-off weight exceeding 1.2 times the maximum recommended value can seriously affect performance and safety.

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.



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