



FPV CM 5320 Brushless DC Motor First-Person View

Our Product Introduction

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Basic Information

- Place of Origin: Guangdong, China
- Brand Name: GS
- Model Number: CM 5320 235KV
- Price: Negotiable



Product Specification

- Motor Model: CINE CM5320 V1.0
- Motor Size: D:61.1 X 56.5 Mm
- Propeller Mounting Holes: M8 Nut D:12 M3x2
- Shaft Diameter: IN: 8 Mm
- Bearing: 688 *4
- Number Of Pole Pairs: 7
- Varnished Wire Degree: 180°C
- Motor Balance: 150°C
- Cable Length: 750 Mm 14# Awg Silicone
- Motor Mounting Holes: D:44 M4x4, D:30 M4x4
- Disruptive Test: 500 V
- Highlight: **FPV CM 5320 Brushless DC Motor, First-Person View Brushless DC Motor**



More Images



FPV CM 5320 Brushless DC Motor First-Person View

- CM motor is optimized for the X8 coaxial twin propeller installation.
1. Two ultra-thin stainless steel dust filters are added inside the stator.
 2. The split exhaust blade is added inside the rotor.

RPM/V	235KV	Nominal Voltage	12s lipo battery
No Load Current	2.84A/20V	Internal resistance	37.5mΩ
Motor Weight	481 g	Product Boxed Weight	777g(118 x 118 x 107 mm)
Maximum Current	69.7 A	Maximum Power	3198W
Maximum thrust	9.1 kg	Maximum Torque	2.47 Nm
Recommended Esc	MAD AMPX 60A(5-14S)80A(5-14S)	Recommended Propellers	15x7x3 16x8x3 17x8x3

CINE CM5320

ENERGY EFFICIENT 235KV

X8 FILM CIMATIC LIFTER MAKER

5.0~6.0 kgf

RECOMMENDED
HOVER THRUSTOPTIMIZED
WEIGHT 481 g

9.1 kgf

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

MAD CINE CM5320 235KV 17x8x3 Carbon Fiber AMPX 80A (5-14S)

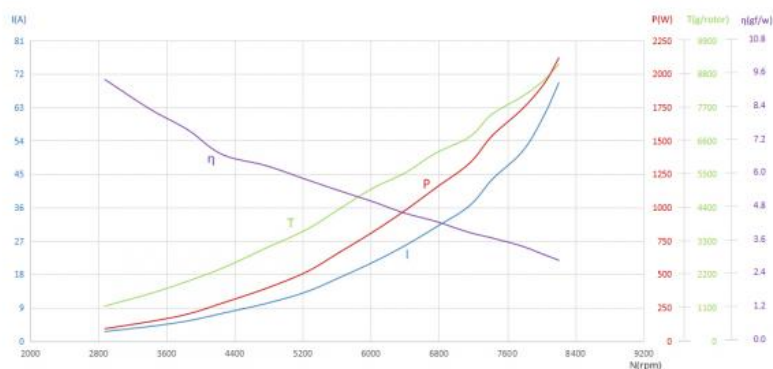
12S

MAX
82°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.

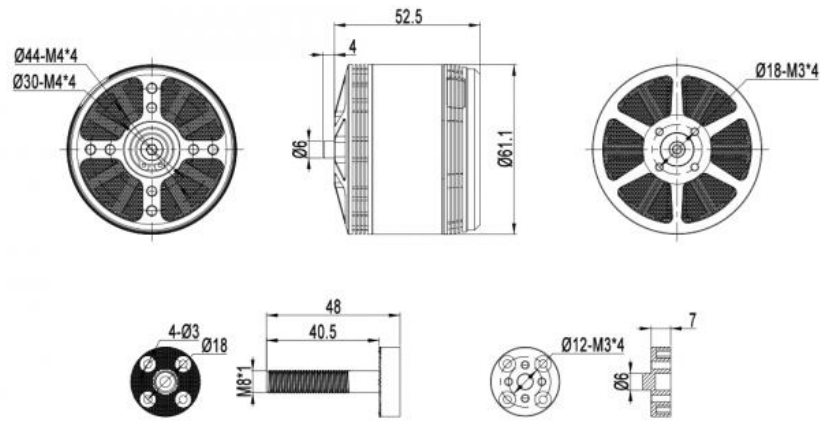


Motor Data

Motor Model	MAD CINE CM5320 V1.0	Number of pole pairs	7
Stator	Anticorrosive	Varnished wire Degree	180°C
Motor Size	D:61.1 × 56.5 mm	Magnet Degree	150°C
Degree of Protection	IP45	Cable Length	750 mm 14# Awg(Black/Red) silicone
Centrifugal Heat Dissipation	YES	Rotor Balance	≤5 mg
Propeller Mounting Holes	M8 Nut D:12 M3×2	Motor Balance	≤10 mg
Shaft Diameter	IN: 8 mm	Motor Mounting Holes	D:44 M4×4, D:30 M4×4
Bearing	688 *4	Disruptive test	500 V
Additional Accessories	M8 Nut*1, Propeller Plate *2, Prop Adapter *1, M4*12mm *4 Motor Screws, M3*8mm *4 Prop Adapter Fixing Screws, MAD Sticker*6		

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UAV take-off weight	12s-17V 22kg-Quadcopter 33kg-Hexacopter 44kg-Octocopter	Single rotor take-off weight	5.0kg ~ 6.0kg



MAD CINE CM5320 235KV 15x7x3 Carbon Fiber AMPX 60A (5-14S)

12S

MAX
62°C

Throttle [%]	Voltage [V]	Current [A]	Input Power [W]	Output Power [W]	Torque [N·m]	RPM	Thrust [gf]	Efficiency [%]	Efficiency [gf/W]
30	48.08	1.62	77.9	52.1	0.166	2996	742	66.9	9.5
35	48.05	2.44	117.2	85.1	0.230	3534	1029	72.6	8.8
40	48.00	3.38	162.2	122.7	0.294	3985	1296	75.6	8.0
45	47.95	4.51	216.3	169.7	0.366	4428	1598	78.5	7.4
50	47.88	6.11	292.5	236.2	0.454	4969	2063	80.8	7.1
55	47.80	8.13	388.6	319.9	0.556	5495	2522	82.3	6.5
60	47.71	10.18	485.7	403.3	0.647	5952	2949	83	6.1
65	47.62	12.69	604.3	505.2	0.754	6398	3458	83.6	5.7
70	47.55	15.55	739.4	620.3	0.870	6808	4001	83.9	5.4
75	47.45	18.75	889.7	745.9	0.981	7261	4502	83.8	5.1
80	47.33	22.01	1041.7	870.0	1.084	7664	4925	83.5	4.7
85	47.18	26.37	1244.1	1031.0	1.215	8103	5609	82.9	4.5
90	47.03	31.2	1467.3	1206.5	1.353	8515	6211	82.2	4.2
95	46.86	36.8	1724.4	1400.7	1.501	8911	6911	81.2	4.0
100	46.61	44.7	2083.5	1662.0	1.696	9358	7730	79.8	3.7

MAD CINE CM5320 235KV 16x8x3 Carbon Fiber AMPX 80A (5-14S)

12S

MAX
76°C

Throttle [%]	Voltage [V]	Current [A]	Input Power [W]	Output Power [W]	Torque [N·m]	RPM	Thrust [gf]	Efficiency [%]	Efficiency [gf/W]
30	48.02	2.14	102.8	74.8	0.243	2939	985	72.8	9.6
35	47.98	3.33	159.8	122.9	0.338	3472	1360	76.9	8.5
40	47.95	4.69	224.9	177.9	0.434	3914	1784	79.1	7.9
45	47.89	6.3	301.7	241.9	0.532	4342	2201	80.2	7.3
50	47.78	8.6	410.9	336.1	0.665	4827	2701	81.8	6.6
55	47.65	11.48	547.0	450.1	0.809	5313	3278	82.3	6.0
60	47.56	14.48	688.7	567.8	0.945	5738	3849	82.4	5.6
65	47.43	18.22	864.2	714.4	1.113	6129	4512	82.7	5.2
70	47.30	22.29	1054.3	863.0	1.267	6504	5163	81.9	4.9
75	47.12	27.2	1281.7	1041.3	1.443	6891	5798	81.2	4.5
80	46.95	32.71	1535.7	1225.0	1.609	7270	6384	79.8	4.2
85	46.79	38.02	1779.0	1402.1	1.758	7616	6917	78.8	3.9
90	46.55	45.49	2117.6	1625.8	1.948	7970	7580	76.8	3.6
95	46.29	53.95	2497.3	1837.9	2.125	8259	8225	73.6	3.3
100	45.88	66.38	3045.5	2086.6	2.331	8548	8988	68.5	3.0

MAD CINE CM5320 235KV 17x8x3 Carbon Fiber AMPX 80A (5-14S)

12S

MAX
82°C

Throttle [%]	Voltage [V]	Current [A]	Input Power [W]	Output Power [W]	Torque [N·m]	RPM	Thrust [gf]	Efficiency [%]	Efficiency [gf/W]
30	48.01	2.56	122.9	91.6	0.304	2878	1149	74.5	9.4
35	47.96	3.97	190.4	147.5	0.411	3428	1577	77.5	8.3
40	47.92	5.4	258.8	201.0	0.499	3847	1967	77.7	7.6
45	47.86	7.46	357.0	284.2	0.637	4260	2403	79.6	6.7
50	47.77	10.12	483.4	394.4	0.789	4773	3067	81.6	6.3
55	47.68	13.28	633.2	518.0	0.943	5246	3674	81.8	5.8
60	47.56	17.08	812.3	664.0	1.126	5631	4352	81.7	5.4
65	47.42	21.29	1009.6	819.0	1.297	6030	5046	81.1	5.0
70	47.28	25.62	1211.3	974.1	1.455	6393	5530	80.4	4.6
75	47.12	30.65	1444.2	1146.1	1.619	6760	6190	79.4	4.3
80	46.94	36.45	1711.0	1330.9	1.776	7156	6725	77.8	3.9
85	46.71	43.62	2037.5	1539.0	1.979	7426	7484	75.5	3.7
90	46.48	51.18	2378.8	1740.2	2.136	7780	8065	73.2	3.4
95	46.16	61.02	2816.7	1930.5	2.294	8036	8609	68.5	3.1
100	45.90	69.67	3197.9	2120.8	2.468	8206	9130	66.3	2.9

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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