



V105 IPE Brushless DC Motor Drone

Our Product Introduction

for more products please visit us on uav-vtoldrone.com

Basic Information

- Place of Origin: Guangdong, China
- Brand Name: GS
- Model Number: V105 170KV
- Price: Negotiable
- Delivery Time: 6-8
- Payment Terms: T/T
- Supply Ability: 100



Product Specification

- Motor Model: V105 IPE V1.0
- Motor Size: D:108.6 X 49.9 Mm
- Propeller Mounting Holes: D:20 M3x4, D:24 M4x4
- Shaft Diameter: IN: 20 Mm
- Bearing: 6902ZZ*2
- Cable Length: 150 Mm (extended Enameled Wires)
- Rotor Balance: ≤ 10 Mg
- Motor Balance: ≤ 20 Mg
- Motor Mounting Holes: D:50 M5x4
- Disruptive Test: 500 V
- Highlight: Drone Brushless DC Motor,
V105 IPE Brushless DC Motor



More Images



Product Description

V105 IPE Brushless DC Motor Drone

Designed to carry payloads of 10-13kg per rotor, with 30" carbon propeller. Max thrust is up to 30.4kg per rotor, unit motor weighs only 999g. With large pitch VOTL CF propellers, achieving large load, high efficiency and excellent reliability, providing reliable power support for various endurance flights of professional UAVS.

RPM/V	170 KV	Nominal Voltage	12s lipo battery
No Load Current	6.3A/18V	Internal resistance	7mΩ
Motor Weight	999 g	Product Boxed Weight	1370g(200 x150 x70 mm)
Maximum Current	194.7 A	Maximum Power	9015W
Maximum thrust	30.4 kg	Maximum Torque	11.7 Nm
Recommended ESC	AMPX 200A (5-14S)	Recommended Propellers	29x8.7,30x10

V105

ENERGY EFFICIENT 170KV
INDUSTRY PROFESSIONAL EDITION

10~13kgf

RECOMMENDED
HOVER THRUST

30.4kgf

MAXIMUM
THRUSTMAXIMUM THRUST MAY DEPEND ON
BATTERY LEVEL, PROPELLER TYPE,
AIR PRESSURE AND OTHER CONDITIONSOPTIMIZED
WEIGHT 999g

EFFICIENCY >81%



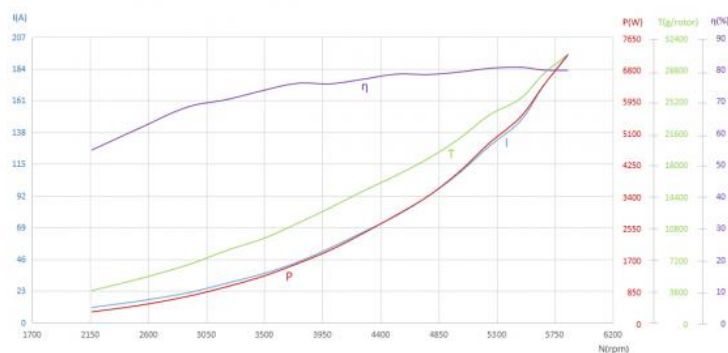
MAD V105 IPE 170KV FLUXER PRO 30x10 MATT AMPX 200A (5-14S)

12S HOT

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.

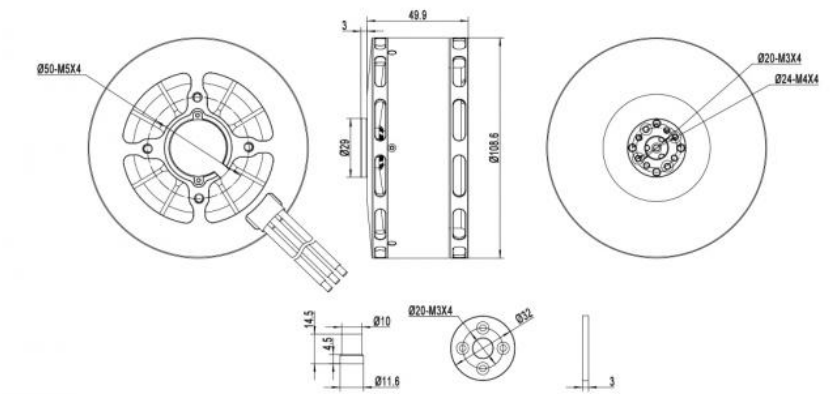


Motor Data

Motor Model	MAD V105 IPE V1.0	Number of pole pairs	21
Stator	TAIWAN / Anticorrosive	Varnished wire Degree	220°C
Motor Size	D:108.6 × 49.9 mm	Magnet Degree	180°C
Degree of Protection	IP35	Cable Length	150 mm (extended Enameled wires)
Centrifugal Heat Dissipation	YES	Rotor Balance	≤10 mg
Propeller Mounting Holes	D:20 M3×4, D:24 M4×4	Motor Balance	≤20 mg
Shaft Diameter	IN: 15 mm	Motor Mounting Holes	D:50 M5×4
Bearing	EZO 6902ZZ *2	Disruptive test	500 V
Additional Accessories	Propeller Plate *1, Locate Pin *1, 8.0mm Bullet Connector*3, Heat Shrinkable Tube*3, M4*12mm *4 Motor Screws, M3*16mm *4 Propeller Screws, Sticker*2		

Specifications

RPM/V	170 KV	Nominal Voltage	12s lipo battery
No Load Current	6.3A/18V	Internal resistance	7mΩ
Motor Weight	999 g	Product Boxed Weight	1370g (200 x 150 x 70 mm)
Maximum Current	194.7 A	Maximum Power	9015W
Maximum thrust	30.4 kg	Maximum Torque	11.7 Nm
Recommended ESC	MAD AMPX 200A (5-14S)	Recommended Propellers	29x8.7, 30x10
UAV take-off weight	12S-307 44kg--Quadcopter	Single rotor take-off weight	10kg ~ 13kg



MAD V105 IPE 170KV

FLUXER PRO 29x8.7 MATT

AMPX 200A (5-14S)

12S

MAX
119°C

Throttle [%]	Voltage [V]	Current [A]	Input Power [W]	Output Power [W]	Torque [N·m]	RPM	Thrust [g]	Efficiency [%]	Efficiency [g/W]
30	48.08	9.73	467.8	254.0	1.113	2180	3346	54.30	7.2
35	48.07	14.57	700.4	438.4	1.625	2576	4715	62.60	6.7
40	47.97	20.47	981.9	676.6	2.186	2956	6217	68.90	6.3
45	47.97	26.56	1274.1	908.4	2.660	3262	7590	71.30	6.0
50	47.84	33.26	1591.2	1182.2	3.184	3546	8972	74.30	5.6
55	47.82	41.19	1969.7	1487.1	3.733	3804	10476	75.50	5.3
60	47.68	50.06	2386.9	1823.6	4.258	4090	12045	76.40	5.0
65	47.65	59.58	2839.0	2228.6	4.904	4340	13728	78.50	4.8
70	47.48	69.79	3313.6	2703.9	5.612	4601	15490	81.60	4.7
75	47.41	85.43	4050.2	3248.3	6.395	4851	17574	80.20	4.3
80	47.22	99.05	4677.1	3807.2	7.119	5107	19210	81.40	4.1
85	47.08	117.27	5521.1	4477.6	7.988	5353	21581	81.10	3.9
90	46.86	133.67	6263.8	5161.4	8.837	5578	23804	82.40	3.8
95	46.7	154.71	7225.0	5917.2	9.758	5791	26104	81.9	3.6
100	46.44	176.3	8187.4	6640.0	10.579	5994	28196	81.1	3.4

MAD V105 IPE 170KV

FLUXER PRO 30x10 MATT

AMPX 200A (5-14S)

12S

HOT

Throttle [%]	Voltage [V]	Current [A]	Input Power [W]	Output Power [W]	Torque [N·m]	RPM	Thrust [g]	Efficiency [%]	Efficiency [g/W]
30	48.07	10.95	526.4	286.5	1.263	2166	3631	54.40	6.9
35	48.04	15.72	755.2	463.6	1.743	2540	4992	61.40	6.6
40	47.94	21.62	1036.5	704.8	2.312	2911	6570	68.00	6.3
45	47.91	28.54	1367.4	960.7	2.858	3210	8187	70.30	6.0
50	47.83	35.56	1700.8	1245.5	3.402	3496	9557	73.20	5.6
55	47.78	43.62	2084.2	1571.6	4.000	3752	11216	75.40	5.4
60	47.7	54.58	2603.5	1959.3	4.652	4022	13112	75.30	5.0
65	47.57	65.49	3115.4	2388.9	5.350	4264	14917	76.70	4.8
70	47.45	77.47	3676.0	2877.7	6.077	4522	16705	78.30	4.5
75	47.34	92.13	4361.4	3410.4	6.816	4778	18674	78.20	4.3
80	47.16	108.8	5131.0	4054.3	7.720	5015	20933	79.00	4.1
85	46.97	127.54	5990.6	4795.5	8.741	5239	23510	80.10	3.9
90	46.82	145.89	6830.6	5496.3	9.576	5481	25397	80.50	3.7
95	46.54	171.44	7978.8	6347.2	10.705	5662	28193	79.6	3.5
100	46.3	194.7	9014.6	7164.5	11.693	5851	30438	79.5	3.4

The above data are the theoretical values when the input voltage is 48V, for reference only. In the case of room temperature of 25°C and no additional cooling device, the current over 195A is non-working zone. 65-195A is short-term (about 10-30s) working zone, and below 65A is sustainable working zone. In actual use, please control the motor running time according to the working environment temperature and heat dissipation conditions.

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