



M35 IPE Brushless DC Motor Manned Drone

Our Product Introduction

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Basic Information

- Place of Origin: Guangdong, China
- Brand Name: GS
- Model Number: M35 IPE 50KV
- Price: Negotiable
- Delivery Time: 6-8
- Payment Terms: T/T
- Supply Ability: 100



Product Specification

- Motor Model: M35 IPE V1.0
- Motor Size: D:122 X68.5 Mm
- Propeller Mounting Holes: D:30 M4x4
- Shaft Diameter: IN: 20 Mm
- Bearing: 6904ZZ*2
- Cable Length: 150 Mm (extended Enameled Wires)
- Rotor Balance: ≤ 10 Mg
- Motor Balance: ≤ 20 Mg
- Motor Mounting Holes: D:55 M5x4
- Disruptive Test: 500 V
- Highlight: **M35 IPE Brushless DC Motor, Manned Drone Brushless DC Motor**



More Images



Product Description

M35 IPE Brushless DC Motor Manned Drone

M Series motors are the flagship motors designed specifically for large multi-rotor electric paragliders, large agricultural tethered VTOLs and UAVs. Used for aerial photography, mapping, electric paragliding, agricultural spraying, surveying and anything in between where professional industrial grade propulsion is required. This type of motor is built with industrial grade components for an unmanned VTOL / Multi-Copter (Hexa,Octo) Personal Aerial Vehicle (PAV).

Specifications

RPMNV	50 KV	Nominal Voltage	24S lipo battery
No Load Current	2.5A/40V	Internal resistance	46.5mΩ
Motor Weight	1860 g	Product Boxed Weight	2383g(200x150 x90 mm)
Maximum Current	162.7 A	Maximum Power	15928W
Maximum thrust	53.8 kg	Maximum Torque	28.3 Nm
Recommended EsC	MAD AMPX 200A (12-24S)	Recommended Propellers	40.1x16

Main features of M35 IPE brushless DC motor:

High efficiency: Motor types are known for converting electrical energy into mechanical energy with minimal loss, which is crucial for flight endurance.

Light and compact: The motor design is light and compact, which helps to reduce the weight of the drone overall, which is crucial for flight.

High torque: The motor is capable of delivering high torque, which is critical to achieving the thrust necessary to lift and maneuver a manned drone.

M35IPE
ENERGY EFFICIENT 50KV
INDUSTRY PROFESSIONAL EDITION

15~22 kgf

RECOMMENDED
HOVER THRUST

53.8 kgf

MAXIMUM
THRUST

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

OPTIMIZED
WEIGHT 1860g

EFFICIENCY >81%



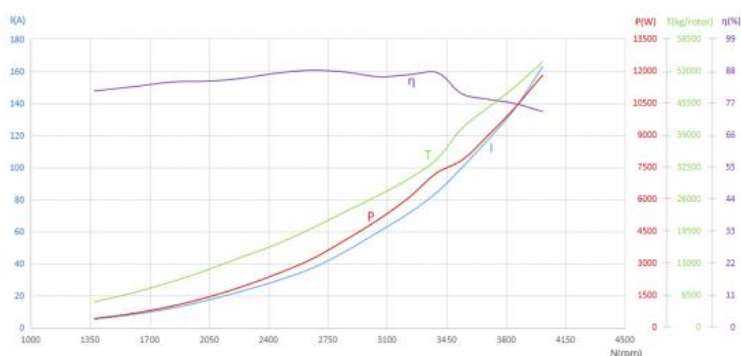
MAD M35 IPE 50KV CF FLUXER VTOL 40.1x16 MATT AMPX 200A (12-24S)

24S MAX
130°C

Analytical Graph of Motor Operation

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

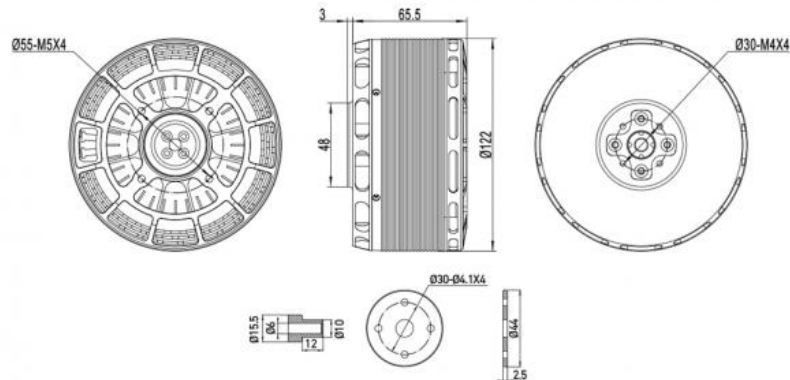
The data above was measured with an input voltage of 100 V, at a temperature of 25°C and sea level. The rotational speed was adjusted by the throttle.



Motor Data

Motor Model	MAD M35 IPE V1.0	Number of pole pairs	15
Stator	TAIWAN / Anticorrosive	Varnished wire Degree	220°C
Motor Size	D:122 × 68.5 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:30 M4×4	Motor Balance	≤20 mg
Shaft Diameter	IN: 20 mm	Motor Mounting Holes	D:55 M5×4
Bearing	EZO 6904ZZ *2	Disruptive test	500 V
Additional Accessories	Propeller Plate *1, Locate Pin *1, 8.0mm Bullet Connector*3, Heat Shrinkable Tube*3, M5*20mm *4 Motor Screws, M4*20mm *4 / M4*30mm *4 Propeller Screws, Sticker*2		
Specifications			
RPM/V	50 KV	Nominal Voltage	24S lipo battery
No Load Current	2.5A/40V	Internal resistance	46.5mΩ
Motor Weight	1860 g	Product Boxed Weight	2383g (200 x 150 x 90 mm)
Maximum Current	162.7 A	Maximum Power	15928W
Maximum thrust	53.8 kg	Maximum Torque	28.3 Nm
Recommended ESC	MAD AMPX 200A (12-24S)	Recommended Propellers	40.1x16
UAV take-off weight	24S-40.1"/ 80kg--Quadcopter 120kg--Hexacopter 160kg--Octocopter	Single rotor take-off weight	15kg ~ 22kg



MAD M35 IPE 50KV CF FLUXER VTOL 40.1x16 MATT AMPX 200A (12-24S)								24S	MAX 130°C
Throttle [%]	Voltage [V]	Current [A]	Input Power [W]	Output Power [W]	Torque [N·m]	RPM	Thrust [gf]	Efficiency [%]	Efficiency [gf/W]
30	98.44	5.4	532.0	431.6	2.995	1376	5265	81.17	9.9
35	98.41	8.35	821.5	678.8	4.035	1607	7116	82.64	8.7
40	98.41	12.31	1211.1	1020.1	5.304	1837	9396	84.25	7.8
45	98.38	17.1	1682.1	1421.3	6.657	2039	11709	84.5	7.0
50	98.39	22.37	2200.7	1878.6	8.050	2228	14127	85.39	6.4
55	98.34	29.12	2864.1	2497.4	9.763	2443	16849	87.21	5.9
60	98.3	37.08	3645.5	3218.5	11.565	2657	20161	88.27	5.5
65	98.26	47.99	4715.6	4132.9	13.800	2860	23643	87.6	5.0
70	98.29	59.8	5878.4	5061.5	15.851	3049	26809	86.07	4.6
75	98.22	71.35	7007.9	6081.8	17.996	3227	30132	86.73	4.3
80	98.06	84.34	8270.6	7236.4	20.374	3392	34140	87.49	4.1
85	98.08	100.11	9818.5	7851.8	22.354	3543	40470	80.1	4.1
90	98.04	118.04	11573.4	9050.4	24.378	3701	44742	78.24	3.9
95	98	135.75	13303.4	10230.3	26.801	3846	48631	76.93	3.7
100	97.89	162.71	15927.5	11802.3	28.301	4015	53848	74.11	3.4

The above data are the theoretical values when the input voltage is 98V, for reference only. In the case of room temperature of 25°C and no additional cooling device, the current over 163A is non-working zone. 40-163A is short-term (about 10-30s), working zone, and below 40A 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