



## TORQ M40C30 50KV v2.1 Brushless DC Motor Manned Drone

### Our Product Introduction

#### Basic Information

- Place of Origin: Guangdong, China
- Brand Name: GS
- Model Number: M40C30 V2.1 50KV
- Price: Negotiable
- Delivery Time: 6-8
- Payment Terms: T/T
- Supply Ability: 100



#### Product Specification

- Motor Model: M40C30 IPE V2.1
- Motor Size: D:152 X65 Mm
- Propeller Mounting Holes: D:50 M6x6
- Shaft Diameter: IN: 15 Mm
- Bearing: HR30202J/3202A-2RZTN
- Cable Length: 150 Mm (extended Enameled Wires)
- Rotor Balance:  $\leq 20$  Mg
- Motor Balance:  $\leq 30$  Mg
- Motor Mounting Holes: D:50 M6x6
- Disruptive Test: 500 V
- Highlight: 50KV Brushless DC Motor,  
50KV Drone DC Motor



#### More Images



## Product Description

### TORQ M40C30 50KV v2.1 Brushless DC Motor Manned Drone

The M40C30 19KW large brushless motor for paramotor paragliders is also designed for cargo transport, This type of motor is built with industrial grade components for an unmanned VTOL / Multi-Copter (Hexa,Octo) Personal Aerial Vehicle (PAV).

### Specifications

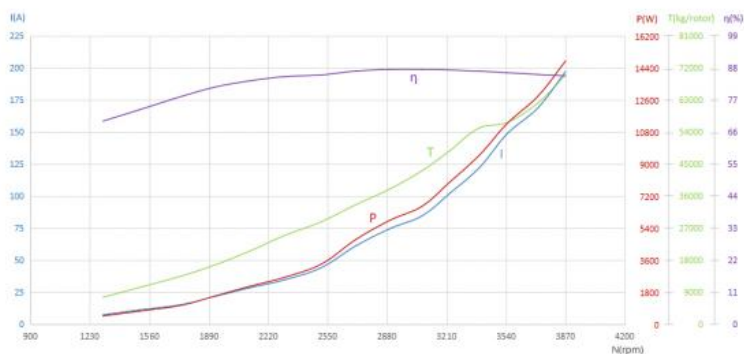
RPM/V	50 KV	Nominal Voltage	24S lipo battery
No Load Current	2.3A/30V	Internal resistance	20.3mΩ
Motor Weight	2789 g	Product Boxed Weight	4008g(260x210x120 mm)
Maximum Current	197.2 A	Maximum Power	19089W
Maximum thrust	70 kg	Maximum Torque	47.1 Nm
Recommended ESC	MAD AMPX 200A(12-24S)	Recommended Propellers	47x13

MAD M40C30 IPE 50KV CF FLUXER 47x13 MATT AMPX 200A (12-24S)

24S MAX  
120°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 100 V, at a temperature of 25°C and sea level. The rotational speed was adjusted by the throttle.

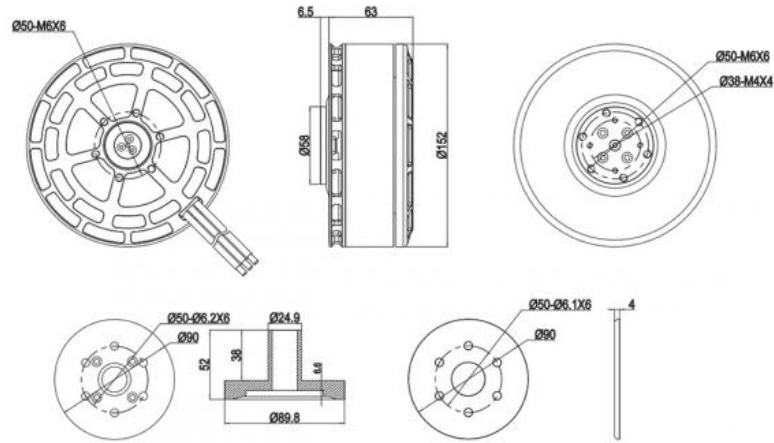


#### Motor Data

Motor Model	MAD M40C30 IPE V2.1	Number of pole pairs	15
Stator	TAIWAN / Anticorrosive	Varnished wire Degree	220°C
Motor Size	D:152 × 65 mm	Magnet Degree	180°C
Degree of Protection	IP35	Cable Length	150 mm (extended Enameled wires)
Centrifugal Heat Dissipation	YES	Rotor Balance	≤20 mg
Propeller Mounting Holes	D:50 M6×6	Motor Balance	≤30 mg
Shaft Diameter	IN: 15 mm	Motor Mounting Holes	D:50 M6×6
Bearing	NSK HR30202J / HRB 3202A-2RZTN	Disruptive test	500 V
Additional Accessories	Propeller Plate *1, Prop Adapter *1, 8.0mm Bullet Connector*3, Heat Shrinkable Tube*3, M6*25mm *6 Motor Screws, M4*14mm *4 Prop Adapter Screws, M6*35mm *6 / M6*40mm *6 Propeller Screws, Sticker*2		

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UAV take-off weight	245-477 / 100kg--Quadcopter 150kg--Hexacopter 200kg--Octocopter	Single rotor take-off weight	20kg ~ 30kg



MAD M40C30 IPE 50KV    CF FLUXER 47x13 MATT    AMPX 200A (12-24S)						24S		MAX 120℃	
Throttle [%]	Voltage [V]	Current [A]	Input Power [W]	Output Power [W]	Torque [N·m]	RPM	Thrust [gf]	Efficiency [%]	Efficiency [gf/W]
30	98.47	7.11	700.1	443.7	3.252	1303	7464	63.38	10.7
35	98.44	10.8	1063.2	711.0	4.518	1503	10198	66.88	9.6
40	98.49	14.97	1474.4	1048.0	5.759	1738	13440	71.08	9.1
45	98.43	21.67	2133.0	1580.1	7.815	1931	16680	74.08	7.8
50	98.52	27.96	2754.6	2090.5	9.457	2111	20309	75.89	7.4
55	98.45	34.32	3378.8	2610.8	10.794	2310	24824	77.27	7.3
60	98.36	43.68	4296.4	3342.1	12.706	2512	28645	77.79	6.7
65	98.53	61.02	6012.3	4750.3	16.752	2708	33541	79.01	5.6
70	98.52	74.44	7333.8	5831.1	19.222	2897	37973	79.51	5.2
75	98.59	84.08	8289.4	6591.8	20.499	3071	42967	79.52	5.2
80	98.57	101.78	10032.5	7960.8	23.559	3227	48624	79.35	4.8
85	98.47	122.18	12031.1	9500.9	26.734	3394	55141	78.97	4.6
90	96.66	148.62	14365.6	11277.0	30.354	3548	56628	78.5	3.9
95	97.35	168.64	16417.1	12797.1	32.879	3717	62113	77.95	3.8
100	96.8	197.2	19089.0	14793.9	36.488	3872	70078	77.5	3.7

The above data are the theoretical values when the input voltage is 98V, for reference only. In the case of room temperature of 25℃ and no additional cooling device, the current over 197A is non-working zone, 61-197A is short-term (about 10-30s) working zone, and below 61A 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.



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