



## 6X12-II Coaxial Drone Arm Set Brushless Motor

### Our Product Introduction

#### Basic Information

- Place of Origin: Guangdong, China
- Brand Name: GS
- Model Number: 6X12-II 170KV
- Price: Negotiable
- Delivery Time: 6-8
- Payment Terms: T/T
- Supply Ability: 100



#### Product Specification

- Highlight: Brushless Motor Coaxial drone arm set, 6X12-II Coaxial drone arm set



#### More Images



### 6X12-II Coaxial drone arm set brushless motor

6X12-II is an upper and lower coaxial structure power system. It is a specially developed power system for a multi rotor UAV with a single axle load of 5-7kg. It focuses on optimizing its force efficiency, safety and endurance under extreme conditions. It is suitable for a multi rotor aircraft with a carbon tube diameter of 30mm. The 6X12-II power sleeve adopts an integrated power assembly, integrates a high-efficiency brushless motor, cooperates with the 22 inch propeller made of special carbon fiber composite materials, and the Circular 60A FOC sine driven intelligent electric regulator, creating more possibilities for professional aerial photography, surveying and mapping inspection and other fields pursuing excellence. Break through imagination and release inspiration.

5-7kgF/rotor Max thrust:15kgF/rotor,

Neat Cable arrangement and easy to install.

Ultralight weight for industrial multirotor: mapping, aerial, inspection, firefighting, military, search and rescue, and more. Field-Oriented control.



#### The integrated propulsion system

6X12-II integrated power series adopts single arm modular design, with a single axle load of 5kg-7kg, a single axle maximum thrust of 15KG and a single power weight of 1050g. The module has simple overall design, convenient installation and reliable structure. For various ultra long endurance application scenarios. The electric regulator of the motor is integrated and adapted to the carbon tube with a diameter of 30mm. It can more conveniently complete the installation and carry out professional flight.

M6C12 Motor 60A14S ESC 2270 Propeller





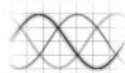
### High efficiency disc motor

The new generation M6C12 adopts a brand-new iron core design, which has been simulated and tested by engineers for months. The optimal scheme is obtained after repeated comparison and testing among various parameters of the iron core. The lightweight iron core design produces greater tension and high efficiency. The product is of precise workmanship, with E2O bearings imported from Japan and unique assembly technology, making axial and radial clearance free. So that each aircraft can fly continuously and stably.

**5~7KG**  
rotor @48v(sea level)

### Intelligent sine wave electric modulation

6x12-II is equipped with Circular 60A FOC intelligent electric regulator, which has a series of early warning and protection functions such as over-voltage, over-current, over temperature, locked rotor, short circuit and motor disconnection, and can respond intelligently according to the aircraft operation status to ensure safety. The optimized control algorithm and circuit design make the power system have the ability of fast throttle response and the stability of operation in harsh environment. Combined with the hardware failure mode, a comprehensive hardware power on self-test program is customized to effectively detect the potential faults of the hardware system and improve the overall stability and safety.



Sine wave driving mode



### Highlight led heading light

The 6x12-II power pack has a red / green LED heading light at the bottom, so there is no need to add additional color lights for multi rotor aircraft. Bring more reassuring override experience to your professional flight.




### High Quality Carbon Fiber Propeller

Fluxer CB2 2270 high quality / ultra light carbon fiber propeller, unique mirror light treatment process. Imported carbon fiber cloth and propeller core lightening technology are adopted. It can increase the flight time under the same load. Its perfect dynamic balance and almost zero vibration are loved by consumers. It is designed by aerodynamics to greatly improve its capacity loss, noise, impact resistance and flight. Combined with the magnetic circuit design of 6x12-II brushless motor, the power system has more advantages in tension and efficiency.

**22"~24"**

Can be customized to match other blades of mad

## PARAMETER

	6X	6X12-II KV170
Basic Parameter	Max Thrust	14800g /rotor @48v(see level)
	Recommend Take-off Weight	5000g~7000g /rotor @48v(see level)
	Recommend voltage	12S Lipo
	Operating Temperature	-20~60℃
	Unit Combo Weight	1050g
	Extension Wire Length	710mm/780mm (Input/Signal Wires)
	Compatible Carbon Tube	30mm (25mm Conversion ring)
PROPELLER	Diameter / pitch	C82 22X7.0IN Ultralight PROP (558.8x177.8mm)
	Unit Weight	32g/pc
Motors	Stator Size	64×12 mm
	Unit Weight	280g
FOC ESC	Model Name	Circular 60A FOC
	Max Input Voltage	60.9V
	Max Input Current	30A
	Max Peak Current	120A (10S)
	Max Throttle Signal Frequency	50~450Hz
	Recommend Voltage	12S

MAD 6X12-II 170KV

CB2 22X7.0IN Ultralight PROP

Circular FOC 60A (6-14S)

TOP

12S

MAX 97°C

Throttle [%]	Voltage [V]	Current [A]	Input Power [W]	Output Power [W]	Torque [N·m]	RPM	Thrust [gf]	Efficiency [%]	Efficiency [g/fW]
30	48.12	1.63	78.4	58.4	0.276	2020	970	74.50	12.4
35	48.06	2.57	123.5	97.6	0.389	2397	1386	79.00	11.2
40	48.00	3.82	183.4	147.7	0.513	2750	1831	80.50	10.0
45	47.92	5.26	252.1	206.3	0.637	3092	2300	81.80	9.1
50	47.82	7.04	336.7	280.9	0.782	3430	2853	83.40	8.5
55	47.69	9.23	440.2	370.7	0.943	3754	3448	84.20	7.8
60	47.56	11.84	563.1	473.7	1.113	4064	4080	84.10	7.2
65	47.40	14.86	704.4	592.5	1.297	4362	4760	84.10	6.8
70	47.21	18.40	868.7	728.4	1.493	4659	5480	83.80	6.3
75	47.02	21.62	1016.6	852.9	1.647	4945	6150	83.90	6.0
80	46.78	26.08	1220.0	1019.4	1.867	5214	6939	83.60	5.7
85	46.54	30.52	1420.4	1172.0	2.043	5478	7605	82.50	5.4
90	46.23	36.56	1690.2	1374.9	2.287	5741	8510	81.30	5.0
95	45.92	42.04	1930.5	1558.4	2.482	5996	9229	80.70	4.8
100	45.68	45.39	2073.4	1666.4	2.622	6069	9629	80.40	4.6

MAD 6X12-II 170KV

CB2 22X7.0IN Ultralight PROP

Circular FOC 60A (6-14S)

BOTTOM

12S

MAX 90°C

Throttle [%]	Voltage [V]	Current [A]	Input Power [W]	Output Power [W]	Torque [N·m]	RPM	Thrust [gf]	Efficiency [%]	Efficiency [g/fW]
30	48.00	1.53	73.4	51.9	0.244	2032	664	70.70	9.0
35	47.95	2.36	113.2	85.2	0.338	2407	946	75.29	8.4
40	47.89	3.40	162.8	125.2	0.433	2760	1199	76.86	7.4
45	47.81	4.77	228.1	181.5	0.559	3100	1577	79.57	6.9
50	47.72	6.36	303.5	247.1	0.686	3440	1950	81.42	6.4
55	47.61	8.31	395.6	325.5	0.825	3767	2331	82.26	5.9
60	47.50	10.29	488.8	403.1	0.945	4073	2699	82.46	5.5
65	47.35	12.67	599.9	494.5	1.080	4372	3066	82.42	5.1
70	47.18	15.36	724.7	604.9	1.238	4666	3496	83.47	4.8
75	46.98	18.49	868.7	723.5	1.398	4942	4026	83.29	4.6
80	46.76	21.56	1008.2	839.6	1.540	5206	4403	83.28	4.4
85	46.56	25.16	1171.5	974.2	1.700	5472	4831	83.16	4.1
90	46.31	29.00	1343.0	1113.1	1.854	5733	5244	82.88	3.9
95	45.96	33.77	1552.1	1261.4	2.011	5990	5741	81.27	3.7
100	45.76	37.89	1733.9	1399.9	2.152	6212	6166	80.74	3.6

Use the powertrain correctly according to the following performance parameters. It is recommended to fly at the recommended takeoff weight for best performance. Don't fly overweight. If the takeoff weight exceeds 1.2 times the maximum recommended value, performance and safety will be seriously affected.

## 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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