



## 6X12 PRO L Coaxial Contra-Rotating drone arm set brushless motor

### Our Product Introduction

#### Basic Information

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



#### Product Specification

- Highlight: 6X12 PRO L drone arm set, Contra-Rotating drone arm set



#### More Images



## 6X12 PRO L Coaxial Contra-Rotating drone arm set brushless motor

6X12 PRO L Coaxial Contra-Rotating propeller is an upper and lower coaxial structure power system. it is a specially developed power system for a multirotor UAV with a single axle load of 5.5-7.5kg. 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 PRO L Coaxial Contra-Rotating propeller power sleeve adopts an integrated power assembly, integrates a high-efficiency brushless motor, cooperates with the 24x7.5 inch propeller made of special carbon fiber composite materials and the 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.

- 1: 5-7kgF/rotor Max thrust: 15kgF/rotor,
- 2: Neat Cable arrangement and easy to install.
3. Ultralight weight for industrial multirotor: mapping, aerial, inspection, firefighting, military, search and rescue, and more.
4. Field-Oriented control.



### The integrated propulsion system

6x12 PRO L Coaxial Contra-Rotating propeller integrated power series adopts single arm modular design, with a single axis load of 5.5kg-7.5kg, single axis maximum thrust of 17KG and single power weight of 1306g(±10g)(Motor+Propeller+ESC+Support Weight). 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.

<b>M6C12</b>	<b>60A14S</b>	<b>2475</b>
Motor	ESC	Propeller





### High efficiency brushless motor

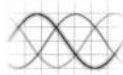
The new M8C12 ENTHUSIASTS EXTREME EDITION adopts a brand-new iron core design, which has been simulated and tested by engineers for months. The optimal scheme is obtained after repeated comparison and testing among various parameters of the iron core. The lightweight iron core design produces greater tension and high efficiency. The product is of precise workmanship, with EZO bearings imported from Japan and unique assembly technology, making axial and radial clearance free. So that each aircraft can fly continuously and stably.

5.5~7.5KG

rotor @48V(see level)

### Intelligent sine wave electric modulation

6x12 PRO L Coaxial Contra-Rotating propeller is equipped with 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.



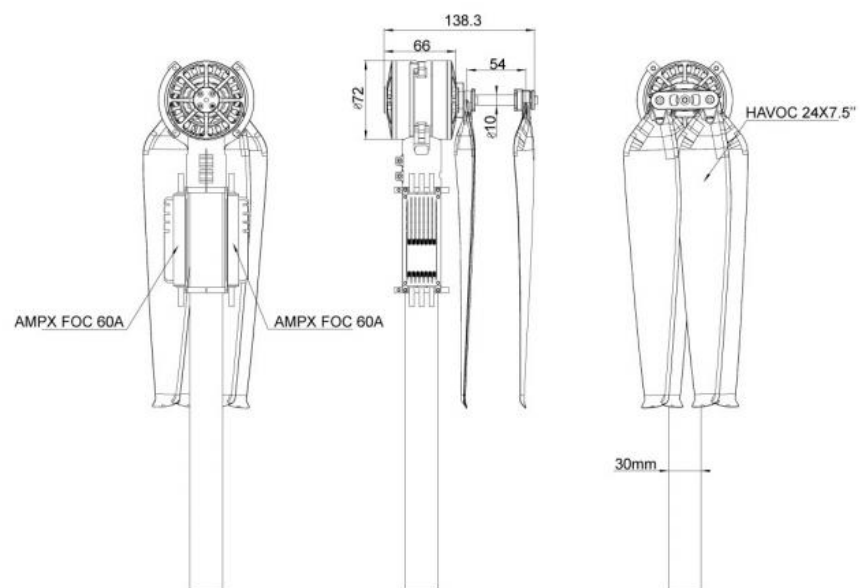
Sine wave driving mode

## High Quality Carbon Fiber Propeller



Havoc 24x7.5 inch high quality / ultra light carbon fiber folding 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 efficiency, flight time, reduce vibration and noise. Combined with the magnetic circuit design of 6x12 PRO L brushless motor, the power system has more advantages in tension and efficiency.

## PRODUCT DRAWING



PARAMETER

	Model	6X12 PRO L COAXIAL CONTRA-ROTATING PROPELLER KV170
Basic Parameter	Max Thrust	17649g /rotor @48v(sea level)
	Recommend Take-off Weight	5500g~7500g /rotor @48v(sea level)
	Recommend Battery	12S Lipo
	Operating Temperature	-10~65℃
	Unit Combo Weight	1306±10g(Motor+Propeller+ESC+Support Weight)
	Battery/signal cable Length	1200mm(Cable Black,Red)
	Compatible Carbon Tube	φ30X30mm
PROPELLER	Diameter / pitch	24x7.5 Folding
	Unit Weight	88g/pc
Motors	Stator Size	64 x 12mm
	Unit Weight	257g
FOC ESC	Model Name	AMPX FOC 60A 8-14S
	Max Input Voltage	60.9V
	Max Input Current	20A
	Max Peak Current	60A (10S)
	Max Throttle Signal Frequency	50~450Hz
	Recommend Voltage	12S

MAD 6X12 PRO L KV170 HAVOC 24X7.5IN Folding AMPX FOC 60A(8-14S) TOP								12S	MAX 97°C
Throttle [%]	Voltage [V]	Current [A]	Input Power [W]	Output Power [W]	Torque [N·m]	RPM	Thrust [g]	Efficiency [%]	Efficiency [g/W]
30	48.07	2.07	99.5	76.7	0.399	1835	1249	77.10	12.60
35	48.01	3.31	158.9	128.7	0.568	2163	1790	81.00	11.30
40	47.93	4.73	226.7	184.7	0.714	2470	2264	81.50	10.00
45	47.82	6.76	323.3	266.1	0.920	2762	2765	82.30	8.60
50	47.71	8.84	421.8	349.5	1.095	3048	3454	82.90	8.20
55	47.56	11.65	554.1	456.9	1.313	3323	4176	82.50	7.50
60	47.42	14.19	672.9	556.6	1.483	3584	4704	82.70	7.00
65	47.22	18.05	852.3	700.3	1.748	3826	5437	82.20	6.40
70	47.02	21.56	1013.8	830.5	1.948	4071	6111	81.90	6.00
75	46.80	25.97	1215.4	983.7	2.181	4307	6774	80.90	5.60
80	46.54	31.17	1450.7	1156.9	2.441	4526	7628	79.70	5.30
85	46.22	38.24	1767.5	1376.6	2.774	4739	8645	77.90	4.90
90	45.92	42.80	1965.4	1502.0	2.900	4946	9078	76.40	4.60
95	45.54	50.55	2302.0	1711.5	3.184	5133	9999	74.30	4.30
100	45.23	55.30	2501.2	1819.3	3.332	5214	10134	72.70	4.10
MAD 6X12 PRO L KV170 HAVOC 24X7.5IN Folding AMPX FOC 60A(8-14S) BOTTOM								12S	MAX 90°C
Throttle [%]	Voltage [V]	Current [A]	Input Power [W]	Output Power [W]	Torque [N·m]	RPM	Thrust [g]	Efficiency [%]	Efficiency [g/W]
30	47.95	1.73	83.0	62.2	0.325	1828	851	75.00	10.26
35	47.90	2.63	126.0	98.2	0.435	2156	1067	77.96	8.47
40	47.82	4.01	191.8	149.2	0.579	2461	1486	77.82	7.75
45	47.73	5.45	260.1	210.2	0.730	2750	1922	80.81	7.39
50	47.63	7.17	341.5	275.6	0.867	3035	2258	80.69	6.61
55	47.50	9.22	438.0	352.2	1.016	3310	2604	80.41	5.95
60	47.37	11.74	556.1	447.6	1.199	3565	3208	80.49	5.77
65	47.18	14.12	666.2	542.1	1.357	3815	3579	81.38	5.37
70	47.00	17.66	830.0	665.6	1.562	4069	4140	80.19	4.99
75	46.77	21.06	985.0	792.8	1.759	4304	4847	80.49	4.92
80	46.55	24.33	1132.6	893.3	1.884	4528	5140	78.88	4.54
85	46.32	26.78	1240.5	972.7	1.968	4720	5143	78.42	4.15
90	46.00	32.44	1492.2	1170.9	2.269	4928	6119	78.47	4.10
95	45.67	36.65	1673.8	1297.4	2.415	5130	6278	77.51	3.75
100	45.38	41.65	1890.1	1435.3	2.588	5296	6737	75.94	3.56
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.									
In the coaxial mode, the uniaxial tension loss is about 25%, which should be taken into account in the model selection.									

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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