



HB60 63X22 drone arm set Heavy load brushless motor

Our Product Introduction

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Basic Information

- Place of Origin: Guangdong, China
- Brand Name: GS
- Model Number: HB60-63X22
- Price: Negotiable
- Delivery Time: 6-8
- Payment Terms: T/T
- Supply Ability: 100

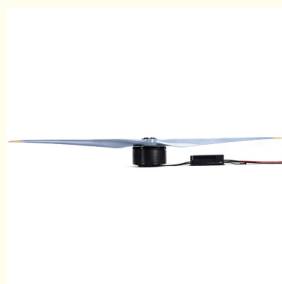


Product Specification

- Motor Model: M5OC60 IPE V1.0
- Motor Size: D:196 X 118.5 Mm
- Internal Resistance: 65 MΩ
- No Load Current: 1.5A/ 30V
- Motor Weight: 7200 G
- Recommended Continue Thrust: 60 Kg
- Nominal Voltage: 354V-400V
- Maximum Current: 70.7 A
- Maximum Power: 27673 W
- Maximum Thrust: 122.9 Kg
- Highlight: **HB60 63X22 drone arm set, Heavy load brushless motor**



More Images



Product Description

HB60 63X22 drone arm set Heavy load brushless motor

The HB60 6322 drone arm set (motor, ESC, propeller) is not sold separately as it is an integrated combo with the FOC ESC included. Each rotor provides a continuous thrust of 60 kg (132.2 lbs) and has a maximum power output of 27 kW, equivalent to 36 hp. The combo is specifically designed for large multi-rotor/e-VTOL drones capable of carrying heavy loads such as flying cars, delivery drones, and urban mobility.

ESC Model	SineSic Pro 80A 16KW(150V~435V)	Weight	1400g
Size(L*W*H)	197.0*88.0*59.5 mm	Continuous Current	80A (under good cooling)
Protection Level	IP67	Instant Current	150A (under good cooling)
Recommended Battery	96~100S LiPO	PWM Input signal Voltage	3.3V/5V
Cable Length(input)	690 mm (10AwG Silicone Flexible Wire)	Cable Length(signal)	1250 mm (9-Core Pvc Flexible Wire)
Cable Length(output)	600 mm(10AWG silicone Flexible Wire)	Cable Length(LED wire)	155 mm (4-Core Pvc Flexible Wirewith Waterproof Connector)

Heavy Load capability: This motor arm set is designed for drones that need to carry heavy loads. It provides high thrust and torque, making it suitable for UAVs used in industrial, commercial or professional applications where lifting capability is prioritized.

Brushless motor technology: The motor is a brushless direct current (BLDC) type with high efficiency, low noise and long service life. Compared with brushed motors, brushless motors offer stable power, better thermal management and lower maintenance requirements, making them popular in UAVs.

Durable construction: Arm sets are made of strong, lightweight materials such as carbon fiber or aluminum alloy. This ensures durability while keeping the overall weight of the drone low, which is critical to maximizing flight time and improving maneuverability.

Optimized stability and control: The HB60 63X22 generator set has been carefully designed to provide smooth and stable performance even under heavy loads. Stability is essential for maintaining control and safety in complex operations and changing environmental conditions.

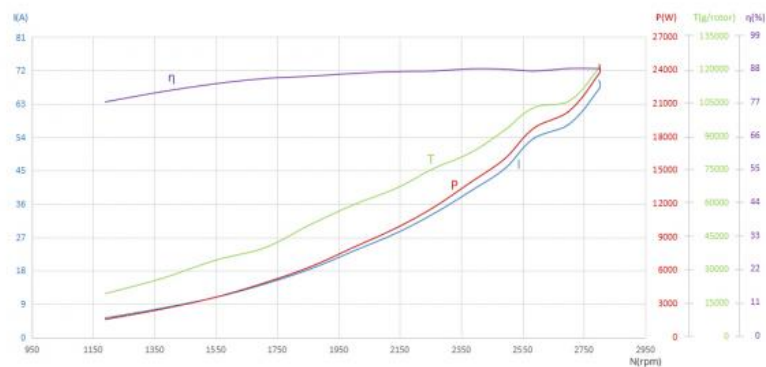


- The drone arm set with great weight to power ratio is specially designed for high-capacity multi-rotor,e-VTOL application,very suitable for heavy payload lifting drones.
- The recommended operating voltage range 100~600V.
- This propulsion system unit with motor,ESC,propeller and its compatibility to serve well in large-scale aircraft with optimal power.
- Utilizing high-quality aviation-grade aluminum enhances both safety measures and utilization of durability.
- Stable rotation and anti-fall properties guaranteed by Japanese bearing.
- Moreover, the incorporation of high-performance curved magnets and resistant to elevated temperatures which resulting in a remarkable performance increase by 5%.

Hummingbird **HB60** **FLUXER PRO 63X22 GLOSSY** **SineSic Pro 80A 16KW (150V~435V)** **400V**

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 400 V, at a temperature of 25°C and sea level. The rotational speed was adjusted by the throttle.



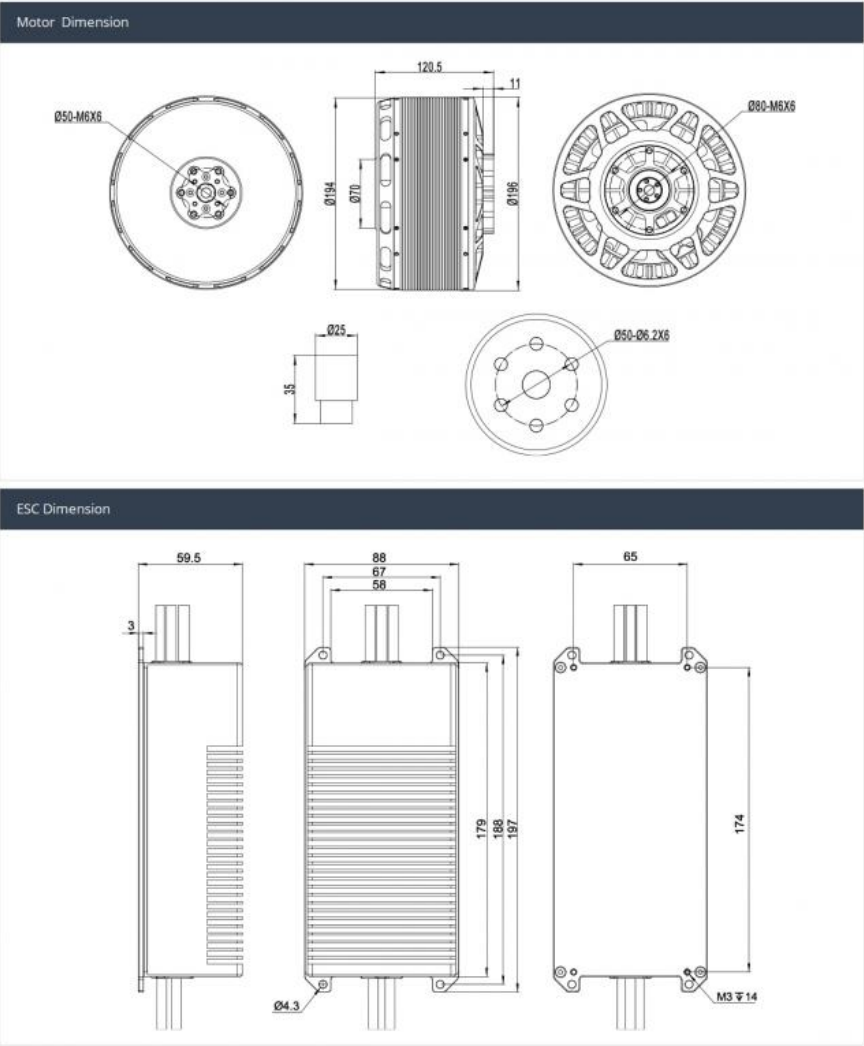
BASIC PARAMATER

Motor Data			
Motor Model	MAD M50C60 IPE V1.0	Nominal Voltage	354V~400V
RPM/V	10 KV	Cable Length	150 mm (extended Enameled wires)
Motor Size	D:196 × 118.5 mm	Maximum Current	70.7 A
Internal resistance	65 mΩ	Maximum Power	27673 W
No Load Current	1.5A / 30V	Maximum thrust	122.9 kg
Motor Weight	7200 g	Shaft Diameter	IN: 25 mm
Recommended Continue thrust	60 kg	Stator	TAIWAN / Anticorrosive

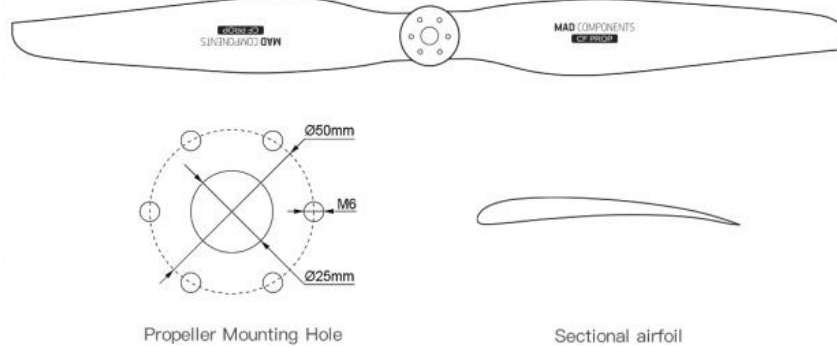
ESC Data			
ESC Model	SineSic Pro 80A 16KW (150V-435V)	Weight	1400g
Size(L*W*H)	197.0*88.0*59.5 mm	Continuous Current	80A (under good cooling)
Protection Level	IP67	Instant Current	150A (under good cooling)
Recommended Battery	96~ 100S LiPo	PWM Input Signal Voltage	3.3V/5V
Cable Length(input)	685mm	Cable Length(Signal)	1175mm
Cable Length(output)	A:265mm / B:295mm / C:315mm	Cable Length(LED wire)	145 mm

Propellers Data			
Propellers Model	FLUXER 63X22 GLOSSY (1600.2 x 558.8mm)	Single Weight	1083 g
Material	High quality carbon fiber + Resin	Type	fixed

PRODUCT DRAWING



Propellers Dimension



TEST DATA

Hummingbird **HB60** **FLUXER PRO 63X22 GLOSSY** **SineSic Pro 80A 16KW (150V~435V)**

354V

Throttle [%]	Voltage [V]	Current [A]	Input Power [W]	Output Power [W]	Torque [N·m]	RPM	Thrust [gf]	Efficiency [%]	Efficiency [gf/W]
30	353.68	5.89	2083.2	1683.1	13.472	1193	19880	80.8	9.5
35	353.68	8.62	3048.7	2540.9	17.659	1374	26618	83.3	8.7
40	353.67	12.01	4247.6	3585.5	22.291	1536	33407	84.4	7.9
45	353.67	15.89	5619.8	4852.6	27.226	1702	39997	86.3	7.1
50	353.69	20.72	7328.5	6453.2	33.131	1860	49907	88.1	6.8
55	353.67	25.95	9177.7	8131.9	38.827	2000	58320	88.6	6.4
60	353.6	31.37	11092.4	9881.7	44.095	2140	67003	89.1	6.0
65	353.59	37.26	13174.8	11835.1	49.569	2280	74074	89.8	5.6
70	353.59	43.61	15420.1	13800.7	55.072	2393	84299	89.5	5.5
75	353.55	50.43	17829.5	15835.4	60.803	2487	91377	88.8	5.1
80	353.51	59.07	20881.8	18641.9	68.468	2600	101782	89.3	4.9
85	353.55	67.08	23716.1	21048.3	74.443	2700	111500	88.8	4.7
90	353.41	69.62	24604.4	21799.5	77.077	2701	115132	88.6	4.7
95	353.42	70.15	24792.4	21916.5	77.577	2698	115683	88.4	4.7
100	353.2	70.65	24953.6	22059.0	78.023	2700	116435	88.4	4.7

Hummingbird **HB60** **FLUXER PRO 63X22 GLOSSY** **SineSic Pro 80A 16KW (150V~435V)**

400V

Throttle [%]	Voltage [V]	Current [A]	Input Power [W]	Output Power [W]	Torque [N·m]	RPM	Thrust [gf]	Efficiency [%]	Efficiency [gf/W]
30	399.44	5.17	2065.1	1601.8	12.854	1190	19599	77.6	9.5
35	399.44	7.78	3107.6	2514.1	17.511	1371	26283	80.9	8.5
40	399.41	10.78	4305.6	3601.0	22.185	1550	34632	83.6	8.0
45	399.41	14.34	5727.5	4888.1	27.313	1709	40203	85.3	7.0
50	399.39	18.47	7376.7	6352.5	32.614	1860	50756	86.1	6.9
55	399.39	23.28	9297.8	8092.7	38.640	2000	59618	87	6.4
60	399.33	28.15	11241.1	9845.2	43.932	2140	67092	87.6	6.0
65	399.34	33.31	13302.0	11672.6	49.321	2260	75834	87.8	5.7
70	399.31	39.37	15720.8	13912.4	55.821	2380	82938	88.5	5.3
75	399.31	45.41	18132.7	16024.4	61.430	2491	93049	88.4	5.1
80	399.29	53.69	21437.9	18822.0	69.450	2588	103286	87.8	4.8
85	399.33	57.38	22913.6	20297.9	71.789	2700	106096	88.6	4.6
90	399.25	67.16	26813.6	23756.9	80.999	2801	121311	88.6	4.5
95	399.24	68.32	27276.1	24139.3	82.244	2803	122365	88.5	4.5
100	399.21	69.32	27673.2	24463.1	83.437	2800	122869	88.4	4.4

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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