

HB40 64X20 drone arm set Motor

Basic Information

• Place of Origin: Guangdong, China

• Brand Name: GS

Model Number: HB40-64X20
Price: Negotiable
Delivery Time: 6-8
Payment Terms: T/T
Supply Ability: 100



Product Specification

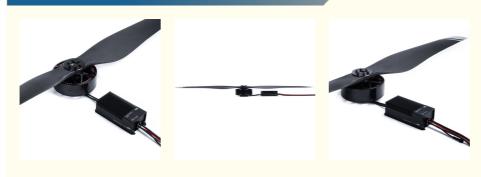
Motor Model: M50C35 EEE V2.0
Motor Size: D:191 X 94 Mm
Internal Resistance: 174.5 MΩ
No Load Current: 0.92A/30V
Motor Weight: 4200 G
Recommended Continue Thrust: 40 Kg

Nominal Voltage: 354V-400V
Maximum Current: 52.1 A
Maximum Power: 19136 W
Maximum Thrust: 95.3 Kg

• Highlight: HB40 64X20 drone arm set, drone arm set Motor



More Images



HB40 64X20 drone arm set Motor

The 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 40kg(88.1BL) and has a maximum power output of 19 KW, equivalent to 25 hp.lt is designed for large multi-rotor/e-VTOL drones capable of carrying heavy loads, flying car, delivery drone, 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)

Integrated arm and motor design: The kit includes the motor and arm, ensuring they are perfectly matched for optimal performance and stability. This integrated design helps keep the drone balanced and improve its aerodynamic efficiency. Brushless motor technology: The motor is a brushless DC motor, which has the advantages of higher efficiency, lower maintenance cost and longer service life. Brushless motors are ideal for drones because they can provide smooth and reliable power output.

High thrust and efficiency: The engine is designed to provide a high thrust to weight ratio that can handle a variety of payloads and perform well in different flight conditions, making it suitable for vertical takeoff and sustained horizontal flight.

Durable arm construction: Arms are typically made of lightweight, robust materials, such as carbon fiber or aluminum, that have the necessary strength to withstand forces during flight without adding too much weight.





400V



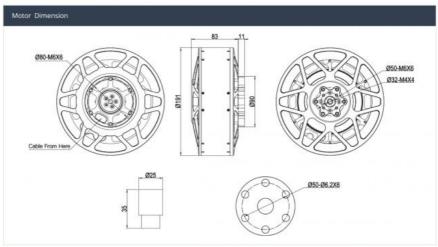
BASIC PARAMATER

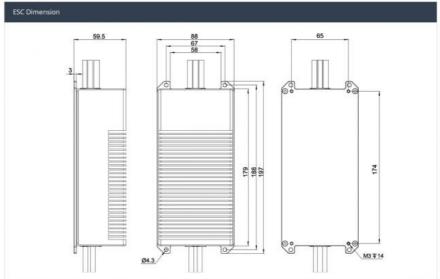
Motor Data					
Motor Model	MAD M50C35 EEE V2.0	Nominal Voltage	354V-400V		
RPM/V	9 KV	Cable Length	150 mm (extended Enameled wires		
Motor Size	D:191 × 94 mm	Maximum Current	53.2 A		
Internal resistance	174.5 mΩ	Maximum Power	19136 W		
No Load Current	0.92A / 30V	Maximum thrust	95.3 kg		
Motor Weight	4200 g	Shaft Diameter	IN: 25 mm		
Recommended Continue thrust	40 kg	Stator	TAIWAN / Anticorrosive		

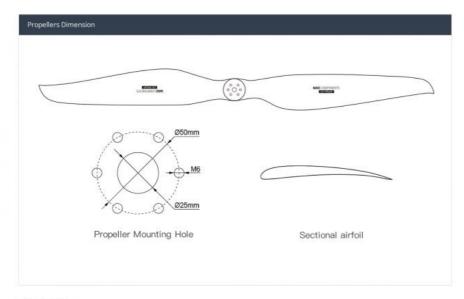
ESC Data					
ESC Model	SineSic Pro 80A 16KW (150V~435V)	Weight	1400g		
Size(L*W*H)	197.0*88.0*59.5 mm	Continuous Current	80A (under good cooling)		
Protection Level	IP67	Instant Current	150A (under good cooling)		
Recommended Battery	96~ 100S LIPo	PWM Input Signal Voltage	3.3V/5V		
Cable Length(Input)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

Propellers Data				
Propellers Model	CB2 64X20 MATT (1625.6 x 508mm)	Single Weight	885 g	
Material	High quality carbon fiber + Resin	Туре	fixed	

PRODUCT DRAWING







TEST DATA

lummin	gbird HB40	CB2 PRO	OP 64x20 N	MATT SineSi	c Pro 80A	16KW (150	V~435V)		354V
Throttle [%]	Voltage [V]	Current [A]	Input Power [W]	Output Power [W]	Torque [N×m]	RPM	Thrust (gf)	Efficiency [%]	Efficient [gf/W]
30	353.71	2.78	983.3	792.1	7.774	973	12111	80.6	12.3
35	353.71	4.49	1588.2	1326.2	11.307	1120	17875	83.5	11.3
40	353.71	6.19	2189.5	1880.2	14.082	1275	22172	85.9	10.1
45	353.73	8.95	3165.9	2770.6	18.632	1420	29165	87.5	9.2
50	353.7	11.21	3965.0	3469.9	21.405	1548	34221	87.5	8.6
55	353.66	14.67	5188.2	4587.0	26.073	1680	40026	88.4	7.7
60	353.71	18.3	6472.9	5773.9	30.496	1808	47330	89.2	7.3
65	353.7	22.14	7830.9	6972.4	34.678	1920	53635	89	6.8
70	353.67	26.25	9283.8	8291.1	38.811	2040	60524	89.3	6.5
75	353.65	30.6	10821.7	9602.9	42.851	2140	65769	88.7	6.1
80	353.58	35.85	12675.8	11296.1	47.730	2260	73533	89.1	5.8
85	353.59	40.99	14493.7	12807.8	52.067	2349	80450	88.4	5.6
90	353.61	47.39	16757.6	14826.2	57.623	2457	88258	88.5	5.3
95	353.56	52.52	18569.0	16199.6	61.656	2509	94465	87.2	5.1
100 Iummin	353.54 ngbird HB40	52.29 CB2 PRO	18486.6 OP 64x20 N	16120.0 MATT SineSi	61.402 c Pro 80A	2507 16KW (150	92769 V~435V)	87.2	5.0 400V
lummin			OP 64x20 N Input Power					87.2 Efficiency (%)	400V
lummin hrottle (%)	ngbird HB40 Voltage [V]	CB2 PRO	OP 64x20 M Input Power (W)	MATT SineSi Output Power [W]	c Pro 80A Torque [N×m]	16KW (150	V~435V) Thrust [87]	Efficiency (%)	400V
lummin Throttle (%)	voltage (V) 399,41	CB2 PRO	OP 64x20 M Input Power [W] 1010.5	Output Power [W] 774.3	Torque [N×m] 7.791	16KW (150 RPM 949	V~435V) Thrust [8f]	Efficiency [%]	400V Efficienc [gf/W]
lummin Throttle [%] 30 35	voltage [V] 399,41 399,43	CB2 PRO Current [A] 2.53 4.03	Input Power [W] 1010.5 1609.7	Output Power [W] 774.3 1335.1	Torque (N×m) 7.791 11.223	16KW (150 RPM 949 1136	V~435V) Thrust [8] 12460 17548	Efficiency (%) 76.6 82.9	400V Efficient [sf/W] 12.3 10.9
hrottle (%) 30 35 40	Voltage [V] 399.41 399.43 399.42	CB2 PRC Current [A] 2.53 4.03 5.56	DP 64x20 M Input Power [W] 1010.5 1609.7 2220.8	Output Power [W] 774.3 1335.1 1846.2	Torque [N×m] 7.791 11.223 13.937	16KW (150 RPM 949 1136 1265	V~435V) Thrust [8f] 12460 17548 22163	Efficiency (%) 76.6 82.9 83.1	400V Efficient (gf/W) 12.3 10.9
hrottle (%) 30 35	voltage [V] 399,41 399,43	CB2 PRO Current [A] 2.53 4.03	Input Power [W] 1010.5 1609.7	Output Power [W] 774.3 1335.1 1846.2 2637.0	Torque [N×m] 7.791 11.223 13.937 17.834	16KW (150 RPM 949 1136	V~435V) Thrust [8f] 12460 17548 22163 27725	Efficiency (%) 76.6 82.9	400V Efficient [sf/W] 12.3 10.9
Hummin (%) 30 35 40 45 50	Voltage (V) 399.41 399.43 399.42 399.43 399.45	CB2 PRC Current [A] 2.53 4.03 5.56 7.75 10.12	Input Power [W] 1010.5 1609.7 2220.8 3095.6 4042.4	Output Power [W] 774.3 1335.1 1846.2 2637.0 3470.2	Torque [N×m] 7.791 11.223 13.937 17.834 21.532	949 1136 1265 1412 1539	V~435V) Thrust [8f] 12460 17548 22163 27725 33120	Efficiency (%) 76.6 82.9 83.1 85.2 85.8	400V Efficienc [gf/W] 12.3 10.9 10.0 9.0 8.2
hrottle (%) 30 35 40 45 50	voltage (V) 399.41 399.43 399.42 399.43 399.45 399.4	CB2 PRO Current [A] 2.53 4.03 5.56 7.75 10.12 12.89	Input Power [W] 1010.5 1609.7 2220.8 3095.6 4042.4 5148.3	Output Power [W] 774.3 1335.1 1846.2 2637.0 3470.2 4468.7	Torque [N×m] 7.791 11.223 13.937 17.834 21.532 25.461	949 1136 1265 1412 1539 1676	V~435V) Thrust [87] 12460 17548 22163 27725 33120 39068	Efficiency (%) 76.6 82.9 83.1 85.2 85.8 86.8	### 400V Efficience [gf/W] 12.3 10.9 10.0 9.0 8.2 7.6
hrottle [%] 30 35 40 45 50 55	voltage (V) 399.41 399.43 399.42 399.43 399.45 399.4	CB2 PRO Current [A] 2.53 4.03 5.56 7.75 10.12 12.89 16.02	Input Power [W] 1010.5 1609.7 2220.8 3095.6 4042.4 5148.3 6398.4	Output Power [W] 774.3 1335.1 1846.2 2637.0 3470.2 4468.7 5591.6	Torque (N×m) 7.791 11.223 13.937 17.834 21.532 25.461 29.681	16KW (150 RPM 949 1136 1265 1412 1539 1676 1799	V~435V) Thrust [87] 12460 17548 22163 27725 33120 39068 45312	Efficiency (%) 76.6 82.9 83.1 85.2 85.8 86.8 87.4	### 400V Efficient [sf/W] 12.3 10.9 10.0 9.0 8.2 7.6 7.1
hrottle (%) 30 35 40 45 50	voltage (V) 399.41 399.43 399.42 399.43 399.45 399.4 399.4 399.4	CB2 PRO Current [A] 2.53 4.03 5.56 7.75 10.12 12.89	Input Power (W) 1010.5 1609.7 2220.8 3095.6 4042.4 5148.3 6398.4 7919.7	Output Power [W] 774.3 1335.1 1846.2 2637.0 3470.2 4468.7 5591.6 6951.5	Torque [N×m] 7.791 11.223 13.937 17.834 21.532 25.461 29.681 34.466	16KW (150 RPM 949 1136 1265 1412 1539 1676 1799 1926	V~435V) Thrust (8f) 12460 17548 22163 227725 33120 39068 45312 51759	Efficiency (%) 76.6 82.9 83.1 85.2 85.8 86.8	400V Efficient [gf/W] 12.3 10.9 10.0 9.0 8.2 7.6 7.1 6.5
Hummin Throttle [%] 30 35 40 45 50 55 60 65 70	Voltage [V] 399.41 399.43 399.42 399.43 399.45 399.4 399.4 399.4 399.4	CB2 PRC Current: [A] 2.53 4.03 5.56 7.75 10.12 12.89 16.02 19.83 23.46	DP 64x20 N Input Power (W) 1010.5 1609.7 2220.8 3095.6 4042.4 5148.3 6398.4 7919.7	Output Power [W] 774.3 1335.1 1846.2 2637.0 3470.2 4468.7 5591.6 6951.5 8194.1	Torque (N.m.) 7.791 11.223 13.937 17.834 21.532 25.461 29.681 34.466 38.432	949 1136 1265 1412 1539 1676 1799 1926 2036	Thrust [87] 12460 17548 22163 27725 33120 39068 45312 51759 58390	Efficiency (%) 76.6 82.9 83.1 85.2 85.8 86.8 87.4 87.8 87.5	400V Efficient [gf/W] 12.3 10.9 10.0 9.0 8.2 7.6 7.1 6.5 6.2
Hummin Throttle [%] 30 35 40 45 50 66 66	voltage (V) 399.41 399.43 399.42 399.43 399.45 399.4 399.4 399.4	CB2 PRO Current: [A] 2.53 4.03 5.56 7.75 10.12 12.89 16.02 19.83	Input Power (W) 1010.5 1609.7 2220.8 3095.6 4042.4 5148.3 6398.4 7919.7	Output Power [W] 774.3 1335.1 1846.2 2637.0 3470.2 4468.7 5591.6 6951.5	Torque [N×m] 7.791 11.223 13.937 17.834 21.532 25.461 29.681 34.466	16KW (150 RPM 949 1136 1265 1412 1539 1676 1799 1926	V~435V) Thrust (8f) 12460 17548 22163 227725 33120 39068 45312 51759	Efficiency (%) 76.6 82.9 83.1 85.2 85.8 86.8 87.4	400V Efficient [gf/W] 12.3 10.9 10.0 9.0 8.2 7.6 7.1 6.5
10 mmin 10 mmi	Voltage [V] 399.41 399.43 399.42 399.43 399.45 399.4 399.4 399.3 399.4 399.3	CB2 PRC Current [A] 2.53 4.03 5.56 7.75 10.12 12.89 16.02 19.83 23.46 27.22	DP 64x20 N Input Power (W) 1010.5 1609.7 2220.8 3095.6 4042.4 5148.3 6398.4 7919.7 9369.7 10871.4	Output Power [W] 774.3 1335.1 1846.2 2637.0 3470.2 4468.7 5591.6 6951.5 8194.1 9597.9	Torque [Nem] 7.791 11.223 13.937 17.834 21.532 25.461 34.466 38.432 42.373	949 1136 1265 1412 1539 1676 1799 1926 2036 2163	V~435V) Thrust [8f] 12460 17548 22163 27725 33120 33120 51759 58390 64031	Efficiency [%] 76.6 82.9 83.1 85.2 85.8 86.8 87.4 87.8 87.5	### 400V Efficience [gf/W] 12.3 10.9 10.0 9.0 8.2 7.6 7.1 6.5 6.2 5.9
Hummin (%) 30 35 40 45 50 65 70 75 80	Voltage [V] 399.41 399.43 399.42 399.43 399.45 399.4 399.39 399.39	CB2 PRC Current [A] 2.53 4.03 5.56 7.75 10.12 12.89 16.02 19.83 23.46 27.22 31.79	Input Power (W) 1010.5 1609.7 2220.8 3095.6 4042.4 5148.3 6398.4 7919.7 9369.7 10871.4 12695.3	Output Power [W] 774.3 1335.1 1846.2 2637.0 3470.2 4468.7 5591.6 6991.5 8194.1 9597.9 11168.1	Torque [Nam] 7.791 11.223 13.937 17.834 21.532 25.461 38.432 42.373 47.189	949 1136 1265 1412 1539 1676 2036 2163 2260	V~435V) Thrust (gf) 12460 17548 22163 27725 33120 39068 45312 51759 58390 64031 71722	Efficiency [%] 76.6 82.9 83.1 85.2 85.8 86.8 87.4 87.8 87.5 88.3	400V Efficience (gf/M) 12.3 10.9 10.0 9.0 8.2 7.6 7.1 6.5 6.2 5.9 5.6
hrottle (%) 30 35 40 45 50 66 67 75 80 85	Voltage [V] 399.41 399.43 399.42 399.43 399.45 399.4 399.4 399.4 399.3 399.3 399.39 399.39	CB2 PRC Current [A] 2.53 4.03 5.56 7.75 10.12 12.89 16.02 19.83 23.46 27.22 31.79 37.28	Input Power (W) 1010.5 1609.7 2220.8 3095.6 4042.4 5148.3 6398.4 7919.7 9369.7 10871.4 12695.3 14887.0	Output Power [W] 774.3 1335.1 1846.2 2637.0 3470.2 4468.7 5591.5 8194.1 9597.9 11168.1 13035.8	Torque [Nxm] 7.791 11.223 13.937 17.834 21.532 25.461 29.681 34.466 38.432 42.373 47.189 52.949	949 1136 1265 1412 1539 1676 1799 1926 2036 2163 2260 2351	V~435V) Thrust (gf) 12460 17548 22163 27725 33120 39068 45312 51759 58390 64031 71722 80688	Efficiency [%] 76.6 82.9 83.1 85.2 85.8 86.8 87.4 87.5 88.3 88 87.6	## 400V Efficient [gf/W] 12.3 10.9 10.0 9.0 8.2 7.6 7.1 6.5 6.2 5.9 5.6 5.4

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.



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