



M50C60 PRO IPE Brushless DC Motor Manned Drone

Our Product Introduction

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Basic Information

- Place of Origin: Guangdong, China
- Brand Name: GS
- Model Number: M50C60 PRO IPE 10KV
- Price: Negotiable
- Delivery Time: 6-8
- Payment Terms: T/T
- Supply Ability: 100



Product Specification

- Motor Model: M40C30 IPE V2.1
- Motor Size: D:196x120.5 Mm
- Propeller Mounting Holes: D:50 M6x6
- Shaft Diameter: IN: 25 Mm
- Bearing: 6805ZZ*2/6818ZZ
- Cable Length: 200 Mm (extended Enameled Wires)
- Rotor Balance: ≤ 20 Mg
- Motor Balance: ≤ 30 Mg
- Motor Mounting Holes: D:80 M6x6
- Disruptive Test: 500 V
- Highlight: **M50C60 PRO IPE Brushless DC Motor, Manned Drone DC Motor**



More Images



M50C60 PRO IPE Brushless DC Motor Manned Drone

It has a power output of 32 kW, equivalent to 43 hp.
Recommended ESC and propeller: HB60-63X22, HB60-64X22.

Specifications

RPMNV	10 KV	Nominal Voltage	354~400V
No Load Current	1.5A/30V	Internal resistance	65mΩ
Motor Weight	7200 g	Product Boxed Weight	8750g(330x265 x135 mm)
Maximum Current	70.7 A	Maximum Power	27673W
Maximum thrust	123 kg	Maximum Torque	83.4 Nm
Recommended EsC	SineSic Pro 80A 16KW(150V~435V)	Recommended Propellers	63x22,64X20

M50C60

ENERGY EFFICIENT 10KV
INDUSTRY PROFESSIONAL EDITION

50~60 kgf

RECOMMENDED
HOVER THRUST

123 kgf

MAXIMUM
THRUST

MAXIMUM THRUST MAY DEPEND ON
BATTERY LEVEL, PROPELLER TYPE,
AIR PRESSURE AND OTHER CONDITIONS

OPTIMIZED
WEIGHT 7200 g

EFFICIENCY >85%



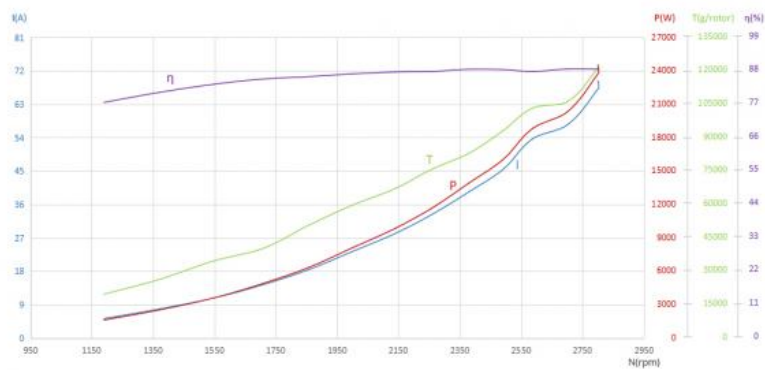
MAD M50C60 IPE 10KV FLUXER PRO 63X22 GLOSSY SineSic Pro 80A 16KW (150V~435V)

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.

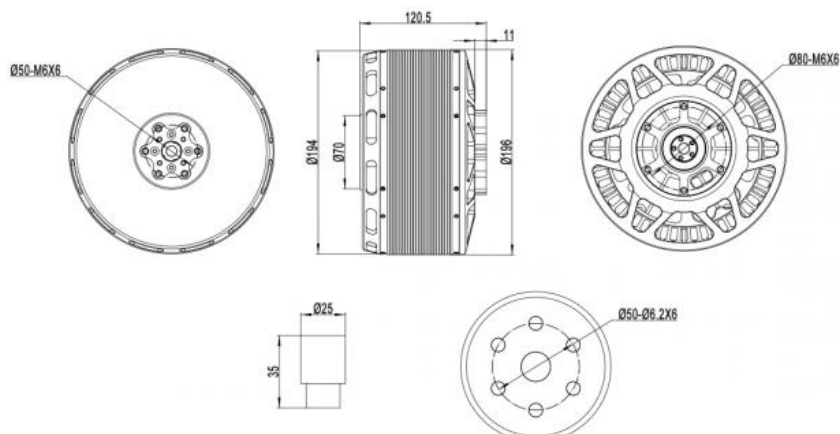


Motor Data

Motor Model	MAD M50C60 IPE V1.0	Number of pole pairs	31
Stator	TAIWAN / Anticorrosive	Varnished wire Degree	220°C
Motor Size	D:196 × 120.5 mm	Magnet Degree	180°C
Degree of Protection	IP35	Cable Length	200 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: 25 mm	Motor Mounting Holes	D:80 M6×6
Bearing	EZO 6805ZZ *4 / EZO 6818ZZ	Disruptive test	1000 V
Additional Accessories	Propeller Plate *1, Locate Pin *1, 8.0mm Bullet Connector*3, Heat Shrinkable Tube*3, M6*25mm *6 Motor Screws, M6*60mm *6 Propeller Screws, Sticker*2		

Specifications

RPM/V	10 KV	Nominal Voltage	354~400V
No Load Current	1.5A/30V	Internal resistance	65mΩ
Motor Weight	7200 g	Product Boxed Weight	8750g (330 x 265 x 135 mm)
Maximum Current	70.7 A	Maximum Power	27673W
Maximum thrust	123 kg	Maximum Torque	83.4 Nm
Recommended ESC	SineSic Pro 80A 16KW (150V~435V)	Recommended Propellers	63x22, 64X20
UAV take-off weight	400V-63V 240kg--Quadcopter 360kg--Hexacopter 480kg--Octocopter	Single rotor take-off weight	50kg ~ 60kg



MAD M50C60 IPE 10KV 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

MAD M50C60 IPE 10KV 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

MAD M50C60 IPE 10KV CB2 PROP 64x20 MATT 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	353.7	5.03	1779.1	1391.6	11.626	1143	17353	78.2	9.8
35	353.65	7.62	2694.8	2159.7	16.000	1289	23929	80.1	8.9
40	353.7	10.28	3636.0	3012.8	19.638	1465	30042	82.9	8.3
45	353.69	13.79	4877.4	4149.2	24.534	1615	37372	85.1	7.7
50	353.69	17.7	6260.3	5385.6	29.204	1761	44290	86	7.1
55	353.63	22.53	7967.3	6953.0	35.056	1894	52335	87.3	6.6
60	353.61	26.8	9476.7	8311.0	39.192	2025	59523	87.7	6.3
65	353.62	31.69	11206.2	9850.0	44.098	2133	67655	87.9	6.0
70	353.65	36.45	12890.5	11402.7	48.373	2251	73317	88.5	5.7
75	353.61	42.33	14968.3	13351.6	53.774	2371	82256	89.2	5.5
80	353.54	49.13	17369.4	15499.7	59.972	2468	91225	89.2	5.3
85	353.56	57.39	20290.8	18025.9	67.240	2560	100770	88.8	5.0
90	353.51	64.09	22656.5	20110.6	72.551	2647	108212	88.8	4.8
95	353.51	68.89	24353.3	21536.5	76.001	2706	113475	88.4	4.7
100	353.52	68.34	24159.6	21368.8	75.409	2706	111456	88.4	4.6

MAD M50C60 IPE 10KV CB2 PROP 64x20 MATT 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	399.39	4.42	1765.3	1298.8	11.094	1118	17514	73.6	9.9
35	399.39	6.63	2648.0	2072.8	15.320	1292	24172	78.3	9.1
40	399.43	9.39	3750.6	3053.2	19.956	1461	31382	81.4	8.4
45	399.41	12.58	5024.6	4219.8	24.752	1628	38589	84	7.7
50	399.43	15.87	6339.0	5391.1	29.234	1761	44907	85	7.1
55	399.39	19.84	7923.9	6853.5	34.301	1908	53178	86.5	6.7
60	399.37	24.17	9652.8	8421.7	39.675	2027	59431	87.2	6.2
65	399.29	28.14	11236.0	9782.9	43.654	2140	67535	87.1	6.0
70	399.38	32.88	13131.6	11492.8	48.604	2258	74092	87.5	5.6
75	399.29	38.98	15564.3	13731.2	55.373	2368	84323	88.2	5.4
80	399.31	43.27	17278.1	15235.4	58.854	2472	90668	88.2	5.2
85	399.28	50.96	20347.3	17964.5	67.011	2560	101922	88.3	5.0
90	399.29	57.14	22815.4	20125.3	72.549	2649	108629	88.2	4.8
95	399.27	61.21	24439.3	21549.1	75.905	2711	114912	88.2	4.7
100	399.24	61.71	24637.1	21682.0	76.458	2708	114400	88	4.6

MAD M50C60 IPE 10KV CB2 PROP 64x20 MATT SineSic Pro 80A 16KW (150V-435V)									
Throttle [%]	Voltage [V]	Current [A]	Input Power [W]	Output Power [W]	Torque [N·m]	RPM	Thrust [gf]	Efficiency [%]	Efficiency [g/W]
30	353.7	5.03	1779.1	1391.6	11.626	1143	17353	78.2	9.8
35	353.65	7.62	2694.8	2159.7	16.000	1289	23929	80.1	8.9
40	353.7	10.28	3636.0	3012.8	19.638	1465	30042	82.9	8.3
45	353.69	13.79	4877.4	4149.2	24.534	1615	37372	85.1	7.7
50	353.69	17.7	6260.3	5385.6	29.204	1761	44290	86	7.1
55	353.63	22.53	7967.3	6953.0	35.056	1894	52335	87.3	6.6
60	353.61	26.8	9476.7	8311.0	39.192	2025	59523	87.7	6.3
65	353.62	31.69	11206.2	9850.0	44.098	2133	67655	87.9	6.0
70	353.65	36.45	12890.5	11402.7	48.373	2251	73317	88.5	5.7
75	353.61	42.33	14968.3	13351.6	53.774	2371	82256	89.2	5.5
80	353.54	49.13	17369.4	15499.7	59.972	2468	91225	89.2	5.3
85	353.56	57.39	20290.8	18025.9	67.240	2560	100770	88.8	5.0
90	353.51	64.09	22656.5	20110.6	72.551	2647	108212	88.8	4.8
95	353.51	68.89	24353.3	21536.5	76.001	2706	113475	88.4	4.7
100	353.52	68.34	24159.6	21368.8	75.409	2706	111456	88.4	4.6

MAD M50C60 IPE 10KV CB2 PROP 64x20 MATT SineSic Pro 80A 16KW (150V-435V)									
Throttle [%]	Voltage [V]	Current [A]	Input Power [W]	Output Power [W]	Torque [N·m]	RPM	Thrust [gf]	Efficiency [%]	Efficiency [g/W]
30	399.39	4.42	1765.3	1298.8	11.094	1118	17514	73.6	9.9
35	399.39	6.63	2648.0	2072.8	15.320	1292	24172	78.3	9.1
40	399.43	9.39	3750.6	3053.2	19.956	1461	31382	81.4	8.4
45	399.41	12.58	5024.6	4219.8	24.752	1628	38589	84	7.7
50	399.43	15.87	6339.0	5391.1	29.234	1761	44907	85	7.1
55	399.39	19.84	7923.9	6853.5	34.301	1908	53178	86.5	6.7
60	399.37	24.17	9652.8	8421.7	39.675	2027	59431	87.2	6.2
65	399.29	28.14	11236.0	9782.9	43.654	2140	67535	87.1	6.0
70	399.38	32.88	13131.6	11492.8	48.604	2258	74092	87.5	5.6
75	399.29	38.98	15564.3	13731.2	55.373	2368	84323	88.2	5.4
80	399.31	43.27	17278.1	15235.4	58.854	2472	90668	88.2	5.2
85	399.28	50.96	20347.3	17964.5	67.011	2560	101922	88.3	5.0
90	399.29	57.14	22815.4	20125.3	72.549	2649	108629	88.2	4.8
95	399.27	61.21	24439.3	21549.1	75.905	2711	114912	88.2	4.7
100	399.24	61.71	24637.1	21682.0	76.458	2708	114400	88	4.6

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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