



8112 IPE 100KV Brushless DC Motor

Our Product Introduction

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Basic Information

- Place of Origin: Guangdong, China
- Brand Name: GS
- Model Number: 8112 IPE 100KV
- Price: Negotiable



Product Specification

- RPMNV: 100 KV
- No Load Current: 1.1A/30V
- Motor Weight: 382 G
- Maximum Current: 41 A
- Maximum Thrust: 11.1 Kg
- Recommended EsC: MAD AMPX 40A (5-14S)HV
- Nominal Voltage: 12S Lipo Battery
- Product Boxed Weight: 682g(150 X150 X65 Mm)
- Single Rotor Take-off Weight: 4kg~6kg
- Highlight: Logistics Transportation Fire Fighting Drones, Heavy Duty Fire Fighting Drones, Logistics Transportation fire extinguisher drone



More Images



Product Description

8112 IPE 100KV Brushless DC Motor

1. Long life design for industrial applications and professional aerial mapping, 12S voltage;
2. Unique built-in "fan" design makes the air flow faster and heat dissipation faster;
3. Unique motor design, 36N40P multi-slot multipole;
4. Extremely reduced motor weight, 5% lighter than 81 series motors from other brands;
5. Durable high quality bearings used, more stable rotation.

8112

ENERGY EFFICIENT 100KV
INDUSTRY PROFESSIONAL EDITION

4.0~6.0 kgf

RECOMMENDED
HOVER THRUST

11.1 kgf

MAXIMUM
THRUSTMAXIMUM THRUST MAY DEPEND ON
BATTERY LEVEL, PROPELLER TYPE,
AIR PRESSURE AND OTHER CONDITIONS.OPTIMIZED
WEIGHT 382g

EFFICIENCY >80%



MAD 8112 IPE-black 100KV FLUXER PRO 28x8.4 MATT AMPX 40A (5-14S)

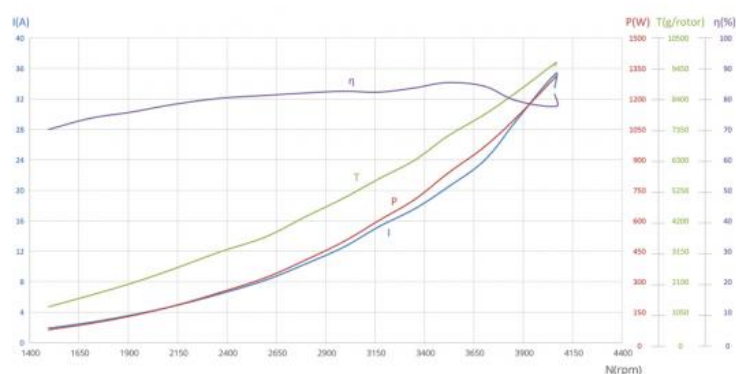
12S

MAX
70°C

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



Motor Data

Motor Model	MAD 8112 IPE V1.0 black	Number of pole pairs	20
Stator	TAIWAN / Anticorrosive	Varnished wire Degree	180°C
Motor Size	D:88.6 × 32.5 mm	Magnet Degree	150°C
Degree of Protection	IP35	Cable Length	150 mm 16# Awg(Black) silicone
Centrifugal Heat Dissipation	YES	Rotor Balance	≤10 mg
Propeller Mounting Holes	D:20 M3×4, D:23 M4×4	Motor Balance	≤20 mg
Shaft Diameter	IN: 15 mm	Motor Mounting Holes	D:40 M4×4
Bearing	EZO 6902ZZ*2	Disruptive test	500 V
Additional Accessories	Propeller Plate *1, 3.5mm Bullet Connector*3, Heat Shrinkable Tube*3, Locating pin*1 M4*10mm *4 Motor Screws, M3*12mm *4 Propeller Screws, Sticker*2		

Specifications

MAD 8112 IPE-black 100KV FLUXER PRO 29x8.7 MATT AMPX 40A (5-14S) HV								12S	MAX 83°C
Throttle [%]	Voltage [V]	Current [A]	Input Power [W]	Output Power [W]	Torque [N·m]	RPM	Thrust [gf]	Efficiency [%]	Efficiency [gf/W]
30	48.2	1.99	95.6	72.3	0.463	1493	1425	75.65	14.8
35	48.2	2.82	135.2	107.5	0.603	1703	1868	79.44	13.8
40	48.19	3.86	185.5	149.9	0.752	1906	2295	80.76	12.3
45	48.18	5.18	249.1	205.0	0.931	2103	2884	82.26	11.6
50	48.17	6.94	333.7	274.9	1.125	2334	3494	82.34	10.5
55	48.11	9.07	435.8	361.5	1.352	2554	4220	82.92	9.7
60	48.07	11.31	543.2	452.6	1.568	2757	4874	83.27	9.0
65	48.06	13.82	663.6	550.4	1.789	2939	5572	82.89	8.4
70	48.05	17.04	818.6	656.9	2.016	3113	6234	80.2	7.6
75	47.95	20.14	965.3	770.6	2.246	3278	6973	79.79	7.2
80	47.87	22.11	1057.6	895.5	2.486	3441	7716	84.65	7.3
85	47.81	25.84	1234.8	1046.0	2.767	3610	8516	84.67	6.9
90	47.79	30.37	1450.8	1183.3	3.005	3760	9276	81.52	6.4
95	47.69	35.81	1707.3	1378.4	3.323	3961	10199	80.69	6.0
100	47.67	35.91	1711.1	1378.2	3.337	3944	10292	80.51	6.0

MAD 8112 IPE-black 100KV FLUXER PRO 30x10.0in MATT AMPX 40A (5-14S) HV								12S	MAX 92°C
Throttle [%]	Voltage [V]	Current [A]	Input Power [W]	Output Power [W]	Torque [N·m]	RPM	Thrust [gf]	Efficiency [%]	Efficiency [gf/W]
30	48.2	2.37	113.4	89.8	0.587	1462	1684	79.15	14.8
35	48.19	3.35	160.8	130.0	0.744	1669	2174	80.76	13.5
40	48.18	4.64	223.0	180.3	0.923	1865	2714	80.79	12.1
45	48.16	6.22	298.9	244.2	1.139	2049	3324	81.65	11.1
50	48.15	8.23	395.6	324.5	1.369	2263	3996	81.97	10.1
55	48.09	10.7	513.9	422.6	1.635	2468	4835	82.17	9.4
60	48.07	13.68	656.9	531.5	1.915	2650	5634	80.87	8.6
65	48.03	16.26	780.3	641.4	2.168	2825	6379	82.17	8.2
70	47.96	19.89	953.4	754.2	2.409	2990	7071	79.08	7.4
75	47.95	23.94	1147.4	878.6	2.677	3134	7861	76.54	6.8
80	47.84	26.3	1258.0	1015.0	2.952	3284	8631	80.65	6.9
85	47.77	30.96	1478.2	1154.5	3.218	3427	9432	78.05	6.4
90	47.66	35.47	1690.0	1314.1	3.509	3576	10163	77.71	6.0
95	47.59	42.68	2030.3	1516.2	3.881	3731	11268	74.63	5.5
100	47.57	40.73	1937.0	1498.6	3.854	3714	11056	77.34	5.7

The above data are the theoretical values when the input voltage is 48V, for reference only. In the case of room temperature of 25°C and no additional cooling device, the current over 41A is non-working zone, 16-41A is short-term (about 10-30s), working zone, and below 16A is sustainable working zone. In actual use, please control the motor running time according to the working environment temperature and heat dissipation conditions.

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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