

## 8112 IPE SILVER Brushless DC Motor

#### **Basic Information**

• Place of Origin: Guangdong, China

• Brand Name: GS

Model Number: 8112 IPE SILVER 100KV

Price: Negotiable



#### **Product Specification**

RPM/V: 100 KV
No Load Current: 1.1A/30V
Motor Weight: 382g
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 X 150 X 65 Mm)

• Maximum Torque: 3.9 Nm

• Recommended Propellers: 28x8.4 29x8.7 30x10.0

• Highlight: Heavy Lift Drones 80kg,

80kg drones that can carry cargo, Pure Electric Heavy Lift Drones



## More Images









## 8112 IPE SILVER 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.

**High Efficiency**: Brushless design ensures high efficiency, leading to reduced energy consumption and longer operational times.

**High Torque**: Capable of delivering substantial torque, making it suitable for demanding applications. **Durability**: Built with fewer moving parts compared to brushed motors, offering a longer lifespan and lower maintenance needs.

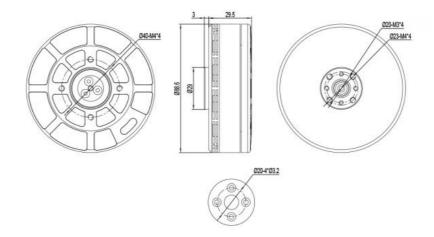
**Precision Control**: Ideal for applications requiring accurate speed and position control. **Advanced Cooling**: Enhanced cooling mechanisms to prevent overheating during high power output operations.





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 Co M4*10mm *4 Motor Screws, M3*12	onnector*3,Heat Shrinkable Tube*3,L mm *4 Propeller Screws,Sticker*2	ocating pin*1

RPM/V	100 KV	Nominal Voltage	12S lipo battery
No Load Current	1.1A/30V	Internal resistance	91mΩ
Motor Weight	382 g	Product Boxed Weight	682g (150 x 150 x 65 mm)
Maximum Current	41 A	Maximum Power	1937W
Maximum thrust	11.1 kg	Maximum Torque	3.9 Nm
Recommended ESC	MAD AMPX 40A (5-14S) HV	Recommended Propellers	28x8.4, 29x8.7, 30x10.0
UAV take-off weight	12S-28"/ 15kgQuadcopter 22kgHexacopter 29kgOctocopter	Single rotor take-off weight	4kg - 6kg



MAD 81	12 IPE-black	k 100KV FL	UXER PRO	28x8.4 MATT	AMPX 40	A (5-14S) HV	1	125	MAX 70°C
Throttle [%]	Voltage [V]	Current [A]	Input Power [W]	Output Power [W]	Torque [N×m]	RPM	Thrust (gf)	Efficiency [%]	Efficiency [gf/W]
30	48.19	1,91	91.5	64.0	0.408	1497	1240	69.99	13.5
35	48.18	2.68	128.9	95.0	0.531	1710	1635	73.67	12.7
40	48.17	3.63	174.2	131.9	0.658	1915	2045	75.67	11.7
45	48.16	4.77	229.4	179.3	0.807	2124	2524	78.13	11.0
50	48.15	6.38	306.6	246.0	0.995	2360	3118	80.19	10.2
55	48.12	8.21	394.3	320.1	1,178	2595	3642	81.14	9.2
60	48.06	10.39	498.9	409.1	1,394	2802	4356	81.96	8.7
65	48.05	12.57	603.7	498.5	1,591	2992	4985	82.53	8.3
70	48	15.24	730.9	601.5	1.813	3169	5647	82.23	7.7
75	47.97	17.56	841.9	704.2	2.008	3349	6285	83.6	7.5
80	47.88	20.37	974.7	832.1	2.260	3516	7109	85,34	7.3
85	47.87	23.88	1142.5	962.4	2.483	3701	7852	84.19	6.9
90	47.86	29.05	1390.1	1105.4	2.734	3862	8606	79.49	6.2
95	47.76	35.36	1688.3	1310.9	3.079	4066	9646	77.61	5.7
100	47.71	33.46	1595.8	1302.5	3.064	4059	9543	81.62	6.0

MAD 81	112 IPE-blac	k 100KV FL	.UXER PRO	29x8.7 MATT	AMPX 40	A (5-14S) H\	/	125	MAX 83°C
Throttle [%]	Voltage [V]	Current [A]	Input Power [W]	Output Power [W]	Torque [N×m]	RPM	Thrust [gf]	Efficiency [%]	Efficient [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
		35.81	1707.3	1378.4	3.323	3961	10199	80.69	6.0
95	47.69	33.01							
100	47.67	35.91	1711.1	1378.2 ) 30x10.0in MA	3.337 TT <b>AMPX</b>	3944 40A (5-14S)	10292 HV	12S	
100 MAD 81	47.67	35.91	UXER PRO						MAX 92°C Efficien
MAD 81	47.67 112 IPE-blac Voltage IVI	35.91 k 100KV FL Current [A]	UXER PRO Input Power [W]	0 30x10.0in MA Output Power [W]	Torque [N×m]	40A (5-14S)	HV Thrust [gf]	12S	MAX 92℃ Efficien Igf/W
MAD 81 hrottle [%]	47.67  112 IPE-blace  Voltage  IVI  48.2	35.91 k 100KV FL Current [A] 2.37	Input Power (W) 113.4	Output Power [W]	Torque [N×m] 0.587	40A (5-14S) RPM 1462	HV Thrust [8f]	12S  Efficiency [%]  79.15	MAX 92℃ Efficien [gf/W
MAD 81 hrottle [%] 30 35	47.67  112 IPE-blace  Voltage  [VI  48.2  48.19	35.91 k 100KV FL Current [A] 2.37 3.35	Input Power (W) 113.4 160.8	0 30x10.0in MA*  Output Power [W]  89.8  130.0	Torque [N×m] 0.587 0.744	RPM 1462 1669	Thrust (gf) 1684 2174	12S  Efficiency [%]  79.15 80.76	MAX 92°C Efficien Isf/W 14.8 13.5
100 MAD 81 hrottle [%] 30 35 40	47.67  112 IPE-blace  Voltage  IVI  48.2  48.19  48.18	35.91 k 100KV FL Current [A] 2.37 3.35 4.64	Input Power [W] 113.4 160.8 223.0	0 30x10.0in MA*  Output Power [W]  89.8  130.0  180.3	Torque [N×m] 0.587 0.744 0.923	RPM 1462 1669 1865	Thrust [sf] 1684 2174 2714	12S  Efficiency [%]  79.15  80.76  80.79	MAX 92°C Efficien [8f/W 14.8 13.5
100 MAD 81 hrottle [%] 30 35 40 45	47.67  112 IPE-blace  Voltage  IVI  48.2  48.19  48.18  48.16	35.91 k 100KV FL Current [A] 2.37 3.35 4.64 6.22	Input Power (W) 113.4 160.8 223.0 298.9	0 30x10.0in MA  Output Power [W]  89.8  130.0  180.3  244.2	Torque [N×m] 0.587 0.744 0.923 1.139	RPM 1462 1669 1865 2049	Thrust [sf] 1684 2174 2714 3324	12S  Efficiency [%]  79.15  80.76  80.79  81.65	MAX 92°C Efficien Isf/W 14.8 13.5 12.1
100 MAD 81 hrottle [%] 30 35 40 45 50	47.67  112 IPE-blaci  Voltage  [VI  48.2  48.19  48.18  48.16  48.15	35.91 k 100KV FL Current [A] 2.37 3.35 4.64 6.22 8.23	Input Power (W) 113.4 160.8 223.0 298.9 395.6	0 30x10.0in MA  Output Power [W]  89.8  130.0  180.3  244.2  324.5	Torque [N×m] 0.587 0.744 0.923 1.139 1.369	RPM 1462 1669 1865 2049 2263	Thrust [sf] 1684 2174 2714 3324 3996	12S  Efficiency [%]  79.15  80.76  80.79  81.65  81.97	MAX 92°C Efficien (sf/w 14.8 13.5 12.1 11.1
100 MAD 81 hrottle [%] 30 35 40 45 50 55	47.67  112 IPE-blaci  Voltage  [V]  48.2  48.19  48.18  48.16  48.15  48.09	35.91 k 100KV FL Current [A] 2.37 3.35 4.64 6.22 8.23 10.7	Input Power (W) 113.4 160.8 223.0 298.9 395.6 513.9	Output Power [W].  89.8  130.0  180.3  244.2  324.5  422.6	Torque [N×m] 0.587 0.744 0.923 1.139 1.369 1.635	RPM 1462 1669 1865 2049 2263 2468	Thrust [sf] 1684 2174 2714 3324 3996 4835	12S  Efficiency [%]  79.15  80.76  80.79  81.65  81.97  82.17	MAX 92°C Efficien 18f/w 14.8 13.5 12.1 11.1 10.1
100  MAD 81  hrottle [%] 30 35 40 45 50 55 60	47.67  112 IPE-blace  Voltage  (V)  48.2  48.19  48.18  48.16  48.15  48.09  48.07	35.91 k 100KV FL Current [A] 2.37 3.35 4.64 6.22 8.23 10.7 13.68	Input Power (W) 113.4 160.8 223.0 298.9 395.6 513.9 656.9	0 30x10.0in MA  Output Power [W]  89.8  130.0  180.3  244.2  324.5  422.6  531.5	Torque [N×m] 0.587 0.744 0.923 1.139 1.369 1.635 1.915	RPM 1462 1669 1865 2049 2263 2468 2650	Thrust [87] 1684 2174 2714 3324 3996 4835 5634	12S  Efficiency [%]  79.15  80.76  80.79  81.65  81.97  82.17  80.87	MAX 92°C Efficien 18f/W 14.8 13.5 12.1 11.1 10.1 9.4 8.6
100 MAD 81 hrottle [%] 30 35 40 45 50 55 60 65	47.67  112 IPE-black  Voltage  [V]  48.2  48.19  48.18  48.16  48.15  48.09  48.07  48.03	35.91 k 100KV FL Current [A] 2.37 3.35 4.64 6.22 8.23 10.7 13.68 16.26	Input Power [W] 113.4 160.8 223.0 298.9 395.6 513.9 656.9 780.3	0 30x10.0in MA  Output Power [W]  89.8  130.0  180.3  244.2  324.5  422.6  531.5  641.4	Torque [Nxm] 0.587 0.744 0.923 1.139 1.369 1.635 1.915 2.168	RPM 1462 1669 1865 2049 2263 2468 2650 2825	Thrust [87] 1684 2174 2714 3324 3996 4835 5634 6379	12S  Efficiency [%]  79.15  80.76  80.79  81.65  81.97  82.17  80.87	MAX 92°C Efficien 18f/w 14.8 13.5 12.1 11.1 9.4 8.6 8.2
100 MAD 81 hrottle [%] 30 35 40 45 50 55 60 65 70	47.67  112 IPE-blaci  Voltage  [VI  48.2  48.19  48.18  48.16  48.15  48.09  48.07  48.03  47.96	35.91 k 100KV FL Current [A] 2.37 3.35 4.64 6.22 8.23 10.7 13.68	Input Power (W) 113.4 160.8 223.0 298.9 395.6 513.9 656.9	0 30x10.0in MA  Output Power [W]  89.8  130.0  180.3  244.2  324.5  422.6  531.5	Torque [N×m] 0.587 0.744 0.923 1.139 1.369 1.635 1.915 2.168 2.409	RPM 1462 1669 1865 2049 2263 2468 2650 2825 2990	Thrust [87] 1684 2174 2714 3324 3996 4835 5634	12S  Efficiency [%]  79.15  80.76  80.79  81.65  81.97  82.17  80.87	MAX 92°C Efficien 18f/W 14.8 13.5 12.1 11.1 9.4 8.6 8.2 7.4
100  MAD 81  hrottle [t/v]  30  35  40  45  50  55  60  65  70  75	47.67  112 IPE-blaci  Voltage  [VI  48.2  48.19  48.18  48.16  48.15  48.09  48.07  48.03  47.96  47.95	35,91 k 100KV FL Current [A] 2.37 3.35 4.64 6.22 8.23 10.7 13.68 16.26 19.89 23.94	Input Power (W) 113.4 160.8 223.0 298.9 395.6 513.9 760.3 953.4 1147.4	0 30x10.0in MA  Output Power [W]  89.8  130.0  180.3  244.2  324.5  422.6  531.5  641.4  754.2  878.6	Torque [N+m] 0.587 0.744 0.923 1.139 1.369 1.635 2.168 2.409 2.677	RPM 1462 1669 1865 2049 2263 2468 2650 2825 2990 3134	Thrust [87] 1684 2174 2714 3324 3996 4835 5634 6379 7071 7861	12S  Efficiency [%]  79.15  80.76  80.79  81.65  81.97  82.17  80.87  62.17  79.08  76.54	MAX 92°C Efficien IsfAW 14.8 13.5 12.1 11.1 10.1 9.4 8.6 8.2 7.4 6.8
100  MAD 81  Throttle [[%] 30 35 40 45 50 65 70 75 80	47.67  Voltage [V]  48.2  48.19  48.18  48.16  48.15  48.07  48.03  47.96  47.95  47.84	35,91 k 100KV FL Current [A] 2.37 3.35 4.64 6.22 8.23 10.7 13.68 16.26 19.89 23.94 26.3	Input Power (W) 113.4 160.8 223.0 298.9 395.6 513.9 780.3 953.4 1147.4 1258.0	0 30x10.0in MA  Output Power [W]  89.8  130.0  180.3  244.2  324.5  422.6  531.5  641.4  754.2  878.6  1015.0	Torque [N×m] 0.587 0.744 0.923 1.139 1.369 1.635 2.168 2.409 2.677 2.952	RPM 1462 1669 1865 2049 2263 2468 2650 2825 2990 3134 3284	Thrust [8f] 1684 2174 2714 3324 3996 4835 5634 6379 7071 7861 8631	12S  Efficiency [%]  79.15  80.76  80.79  81.65  81.97  82.17  79.08  76.54  80.65	MAX 92°C Efficien IsfAW 14.8 13.5 12.1 11.1 10.1 9.4 8.6 8.2 7.4 6.8 6.9
100  MAD 81  hrottle [%] 30 35 40 45 50 66 67 77 80 85	47.67  112 IPE-blaci  Voltage  IVI  48.2  48.19  48.16  48.15  48.09  48.07  48.03  47.96  47.95  47.84	35.91 k 100KV FL Current [A] 2.37 3.35 4.64 6.22 8.23 10.7 13.68 16.26 19.89 23.94 26.3 30.96	Input Prover (W) 113.4 160.8 223.0 298.9 395.6 513.9 656.9 780.3 953.4 1147.4 1258.0 1478.2	0 30x10.0in MA  Output Power [W]  89.8  130.0  180.3  244.2  324.5  422.6  531.5  641.4  754.2  878.6  1015.0  1154.5	Torque [N×m] 0.587 0.744 0.923 1.139 1.369 1.635 1.915 2.168 2.409 2.677 2.952 3.218	RPM 1462 1669 1865 2049 2263 2468 2650 2825 2990 3134 3284 3427	Thrust [8f] 1684 2174 2714 3324 3996 4835 5634 6379 7071 7861 8631 9432	12S  Efficiency [%]  79.15  80.76  80.79  81.65  81.97  82.17  80.87  62.17  79.08  76.54  80.65  78.05	MAX 92°C Efficient (sf/W) 14.8 13.5 12.1 11.1 10.1 9.4 8.6 8.2 7.4 6.8 6.9 6.4
100  MAD 81  Throttle [[%] 30 35 40 45 50 65 70 75 80	47.67  Voltage [V]  48.2  48.19  48.18  48.16  48.15  48.07  48.03  47.96  47.95  47.84	35,91 k 100KV FL Current [A] 2.37 3.35 4.64 6.22 8.23 10.7 13.68 16.26 19.89 23.94 26.3	Input Power (W) 113.4 160.8 223.0 298.9 395.6 513.9 780.3 953.4 1147.4 1258.0	0 30x10.0in MA  Output Power [W]  89.8  130.0  180.3  244.2  324.5  422.6  531.5  641.4  754.2  878.6  1015.0	Torque [N×m] 0.587 0.744 0.923 1.139 1.369 1.635 2.168 2.409 2.677 2.952	RPM 1462 1669 1865 2049 2263 2468 2650 2825 2990 3134 3284	Thrust [8f] 1684 2174 2714 3324 3996 4835 5634 6379 7071 7861 8631	12S  Efficiency [%]  79.15  80.76  80.79  81.65  81.97  82.17  79.08  76.54  80.65	MAX 92°C Efficien IsfAW 14.8 13.5 12.1 11.1 10.1 9.4 8.6 8.2 7.4 6.8 6.9

# **Our Services**

In actual use, please control the motor running time according to the working environment temperature and heat dissipation conditions.

- 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