



3506 EEE 400KV+460KV+650KV Brushless DC Motor for Drone Applications

Basic Information

- Brand Name: GS
- Model Number: 3506 EEE 400KV+460KV+650KV
- Minimum Order Quantity: 1
- Price: Negotiable
- Delivery Time: 6~8
- Payment Terms: T/T
- Supply Ability: 100



Product Specification

- Highlight: 650KV Brushless DC Motor,
3506 EEE Brushless DC Motor,
650KV bldc drone motor



More Images



3506 EEE 400KV+460KV+650KV Brushless DC Motor

3506

ENERGY EFFICIENT 400KV
ENTHUSIASTS EXTREME EDITION

0.5~1.0 kgf
RECOMMENDED
HOVER THRUST

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

OPTIMIZED
WEIGHT 73g

EFFICIENCY >80%



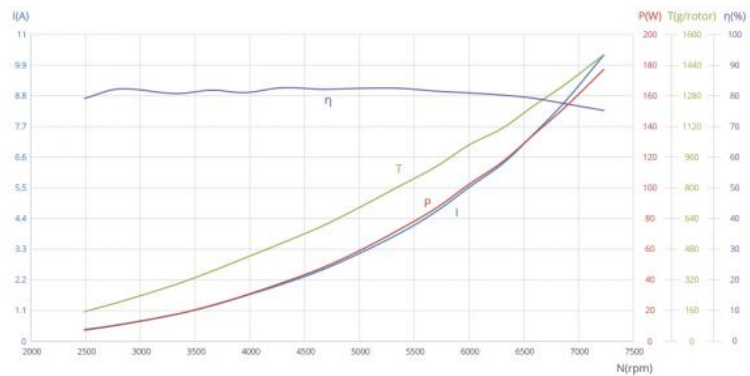
3506 EEE 400KV FLUXER PRO 13x4.4 MATT AMPX 40A PRO (2-65)

6S MAX
68°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 24 V, at a temperature of 25°C and sea level. The rotational speed was adjusted by the throttle.

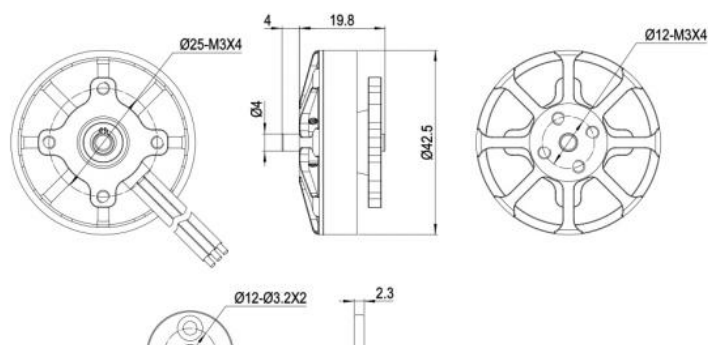


Motor Data

Motor Model	3506 EEE V3.0	Number of pole pairs	7
Stator	TAIWAN / Anticorrosive	Varnished wire Degree	150°C
Motor Size	D:42.5 × 23.8 mm	Magnet Degree	150°C
Degree of Protection	Rain protection	Cable Length	150 mm 18# Awg(Black) silicone
Centrifugal Heat Dissipation	Independent	Rotor Balance	≤5 mg
Propeller Mounting Holes	D:12 M3×4	Motor Balance	≤10 mg
Shaft Diameter	IN: 4 mm	Motor Mounting Holes	D:25 M3×4
Bearing	EZO 694ZZ*2	Disruptive test	500 V
Additional Accessories	Propeller Plate *2, Ø4-6 Adapter Ring *2, 3.5mm Bullet Connector*6, Heat Shrinkable Tube*6, M3*6mm *8 Motor Screws, M3*10mm *4 Propeller Screws, Sticker*2		

Specifications

RPM/V	400KV	Nominal Voltage	6S lipo battery
No Load Current	0.3A / 20V	Internal resistance	189mΩ
Motor Weight	73 g	Product Boxed Weight	309g (110 x 110 x 55 mm) 2pcs/box
Maximum Current	14 A	Maximum Power	330W
Maximum thrust	1.6 kg	Maximum Torque	0.283 Nm
Recommended ESC	MAD AMPX PRO 40A (2-65)	Recommended Propellers	13x4.4, 14x4.8
UAV take-off weight	6S-137' 2kg--Quadcopter 3kg--Hexacopter 4kg--Octocopter	Single rotor take-off weight	0.5kg ~ 1kg





3506 EEE 400KV FLUXER PRO 13x4.4 MATT AMPX 40A PRO (2~6S)								6S	MAX 68°C
Throttle [%]	Voltage [V]	Current [A]	Input Power [W]	Output Power [W]	Torque [N·m]	RPM	Thrust [g]	Efficiency [%]	Efficiency [g/W]
30	23.81	0.42	9.6	7.3	0.028	2490	155	79.10	16.7
35	23.8	0.6	13.9	10.7	0.037	2809	205	82.20	15.6
40	23.79	0.97	22.7	17.6	0.051	3327	297	80.70	13.6
45	23.79	1.28	29.8	23.5	0.062	3655	366	81.80	12.7
50	23.79	1.62	38.1	29.8	0.072	3948	433	81.00	11.7
55	23.78	2.05	48.1	38.2	0.085	4297	513	82.60	11.1
60	23.77	2.57	60.5	48.0	0.098	4665	602	82.10	10.3
65	23.75	3.16	74.9	59.2	0.113	5003	699	82.40	9.7
70	23.74	3.88	91.7	73.1	0.130	5372	811	82.40	9.1
75	23.72	4.63	109.3	86.5	0.145	5692	908	81.50	8.6
80	23.7	5.54	130.9	102.7	0.163	6008	1026	80.90	8.1
85	23.69	6.35	149.7	116.8	0.177	6302	1110	80.20	7.6
90	23.67	7.41	174.7	134.4	0.195	6586	1226	79.20	7.2
95	23.66	8.59	202.7	152.6	0.212	6877	1339	77.40	6.8
100	23.62	10.26	241.8	177.1	0.234	7231	1494	75.20	6.3

3506 EEE 400KV FLUXER PRO 14x4.8 MATT AMPX 40A PRO (2~6S)								6S	MAX 83°C
Throttle [%]	Voltage [V]	Current [A]	Input Power [W]	Output Power [W]	Torque [N·m]	RPM	Thrust [g]	Efficiency [%]	Efficiency [g/W]
30	23.8	0.51	11.8	10.2	0.041	2375	185	91.90	16.6
35	23.8	0.8	18.8	15.1	0.053	2737	256	84.30	14.3
40	23.79	1.24	28.9	23.8	0.072	3173	363	85.30	13.0
45	23.78	1.62	38.1	30.9	0.086	3444	438	84.00	11.9
50	23.77	2.13	50.2	40.1	0.101	3791	531	83.10	11.0
55	23.76	2.66	62.8	50.3	0.116	4127	620	82.80	10.2
60	23.75	3.3	77.9	62.2	0.134	4445	723	82.40	9.6
65	23.74	4.03	95.2	74.8	0.151	4748	827	81.20	9.0
70	23.72	4.94	116.5	91.1	0.173	5035	947	80.60	8.4
75	23.69	6.11	144.4	109.7	0.196	5349	1086	78.40	7.8
80	23.68	7.21	170.2	125.8	0.213	5630	1193	76.10	7.2
85	23.65	8.59	202.6	142.6	0.231	5899	1298	72.40	6.6
90	23.63	9.98	235.4	159.5	0.250	6101	1419	69.60	6.2
95	23.59	12.07	284.1	173.7	0.264	6276	1496	62.70	5.4
100	23.56	14.02	329.8	191.0	0.283	6454	1596	59.30	5.0

The above data are the theoretical values when the input voltage is 24V, for reference only. In the case of room temperature of 25°C and no additional cooling device, the current over 14A is non-working zone, 4-14A is short-term (about 10-30s), working zone, and below 4A is sustainable working zone. In actual use, please control the motor running time according to the working environment temperature and heat dissipation conditions.

3506

ENERGY EFFICIENT 460KV

ENTHUSIASTS EXTREME EDITION

0.3~0.5 kgf

RECOMMENDED
HOVER THRUST

1.2 kgf



MAXIMUM
THRUST

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

OPTIMIZED
WEIGHT

72.3g

EFFICIENCY >83%





0.5~0.7 kgf
RECOMMENDED
HOVER THRUST

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

OPTIMIZED
WEIGHT

73.8g

EFFICIENCY >84%



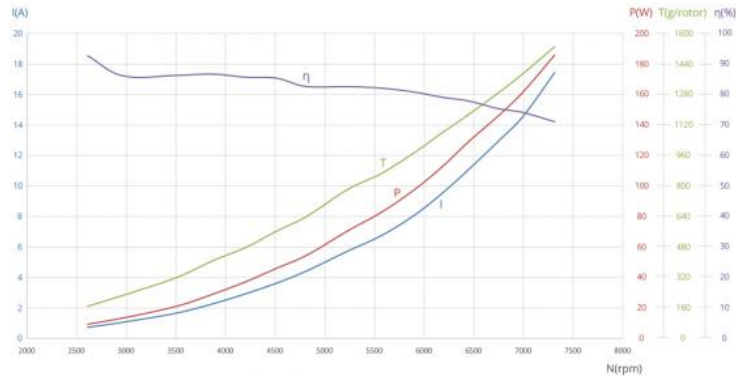
3506 EEE 650KV FLUXER PRO 13x4.4 MATT AMPX 40A PRO (2-6S)

4S MAX
69°C

Analytical Graph of Motor Operation

I - Current, P - Input Power, η - Electrical Efficiency, T - Thrust, N - Rotational Speed

The data was measured with an input voltage of 16 V, at a temperature of 25°C and sea level. The rotational speed was adjusted by the throttle.



Specifications

RPM/V	650KV	Nominal Voltage	4S lipo battery
No Load Current	0.5A / 16V	Internal resistance	112mΩ
Motor Weight	73.8 g	Product Boxed Weight	311g (110 x 110 x 55 mm) 2pcs/box
Maximum Current	17.4 A	Maximum Power	270W
Maximum thrust	1.5 kg	Maximum Torque	0.24 Nm
Recommended ESC	MAD AMPX PRO 40A (2-6S)	Recommended Propellers	13x4.4, 14x4.8
UAV take-off weight	4S-137 2kg-Quadcopter 3kg-Hexacopter 4kg-Octocopter	Single rotor take-off weight	0.5kg ~ 0.7kg

3506 EEE 650KV FLUXER PRO 13x4.4 MATT AMPX 40A PRO (2-6S)

4S MAX
69°C

Throttle [%]	Voltage [V]	Current [A]	Input Power [W]	Output Power [W]	Torque [N·m]	RPM	Thrust [gf]	Efficiency [%]	Efficiency [gf/W]
30	15.82	0.73	11.1	9.3	0.034	2612	169	92.70	16.7
35	15.81	1.07	16.7	13.5	0.044	2972	227	86.10	14.4
40	15.8	1.68	26.1	21.3	0.058	3517	322	86.30	13.0
45	15.78	2.28	35.5	29.1	0.072	3875	409	86.70	12.2
50	15.77	2.94	45.8	37.3	0.085	4205	478	85.70	11.0
55	15.76	3.62	56.7	46.0	0.097	4510	562	85.40	10.4
60	15.75	4.39	68.5	54.1	0.108	4802	636	82.70	9.7
65	15.72	5.75	89.9	70.8	0.129	5236	784	82.60	9.1
70	15.7	6.75	105.4	82.8	0.142	5569	866	82.10	8.6
75	15.68	8.1	126.6	97.8	0.158	5904	976	80.80	8.1
80	15.65	9.55	148.9	112.9	0.174	6186	1081	79.10	7.6
85	15.62	11.08	172.6	129.1	0.191	6447	1175	77.90	7.1
90	15.59	12.91	200.8	145.8	0.207	6742	1287	75.40	6.7
95	15.56	14.48	224.9	160.9	0.220	6984	1385	74.20	6.4
100	15.5	17.44	269.9	185.9	0.243	7313	1531	71.10	5.9

3506 EEE 650KV FLUXER PRO 14x4.8 MATT AMPX 40A PRO (2-6S)

4S MAX
86°C

Throttle [%]	Voltage [V]	Current [A]	Input Power [W]	Output Power [W]	Torque [N·m]	RPM	Thrust [gf]	Efficiency [%]	Efficiency [gf/W]
30	14.54	0.32	4.0	3.7	0.021	1757	95	94.50	23.6
35	14.54	0.47	6.0	5.6	0.027	2011	128	93.80	21.4
40	14.53	0.74	10.0	9.0	0.037	2349	184	91.70	18.6
45	14.53	1	14.0	11.9	0.044	2579	226	86.90	16.4
50	14.52	1.28	18.1	15.1	0.052	2796	275	88.50	16.1
55	14.52	1.72	24.4	20.4	0.063	3087	338	86.60	14.3
60	14.51	2.19	31.2	26.2	0.075	3361	402	87.50	13.4
65	14.53	2.77	39.8	32.6	0.087	3600	471	85.50	12.3
70	14.49	3.28	47.0	39.2	0.098	3827	537	86.20	11.8
75	14.48	3.88	55.8	45.4	0.108	4036	599	84.30	11.1
80	14.47	4.55	65.2	53.2	0.120	4244	664	84.30	10.5
85	14.45	5.32	76.5	62.3	0.133	4460	741	84.20	10.0
90	14.44	6.13	88.0	70.5	0.144	4665	811	82.70	9.5
95	14.42	7.07	101.4	80.1	0.157	4856	890	81.40	9.1
100	14.4	8.31	119.1	93.2	0.174	5115	993	80.30	8.6

The above data are the theoretical values when the input voltage is 16V, for reference only. In the case of room temperature of 25°C and no additional cooling device, the current over 8A is non-working zone, 3-8A is short-term (about 10-30s), working zone, and below 3A 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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