Brushless DC Motor 5008 IPE V3 170KV 240KV 300KV 340KV 400KV

Our Product Introduction

Basic Information

- Place of Origin: Guangdong, China
- Model Number: 5008 IPE 170KV 240KV 300KV 340KV 400KV
- Price: Negotiable

Product Specification

- Motor Model: MAD 5008 IPE V3.0
- Motor Size: D:56 X 29.3 Mm
- Degree Of Protection: YES
- Propeller Mounting Holes: D:12 M3x4, D:15 M3x4
- Shaft Diameter: IN: 6 Mm
- Bearing: EZ0 696ZZ*2
- Rotor Balance: ≤5 Mg
- Motor Mounting Holes: ≤10 Mg
- Disruptive Test: 500 V
- Highlight: **Aerial Monitoring Tethered power Systems**, **Aerial Monitoring Power Tethered Drone Systems** , **Aluminum Alloy Tethered power Systems**

More Images

Our Product Introduction

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Product Description

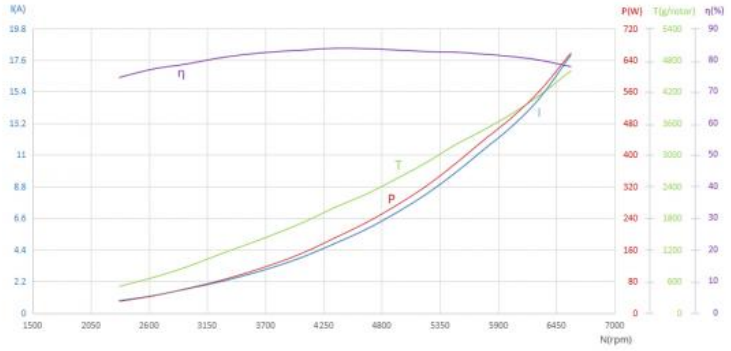
Brushless DC Motor 5008 IPE V3

5008 as the first motor was designed and developed by MAD EU in 2015, the result never let the motor designer and user disappointed. It is the most efficient motor equipped with 18-20inch propeller, the best option for the multirotor need 1-2kg/rotor.It is widely used for the long-range inspection drone mapping drone surveying drone quadcopter hexcopter mulitirotor.

MAD 5008 IPE 170KV **FLUXER** PRO 18x6.1 MATT **AMPX** 40A (5-14S) HV **12S** MAX 98°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.

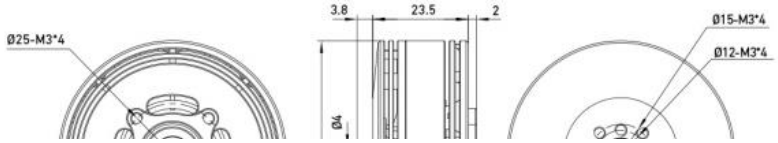


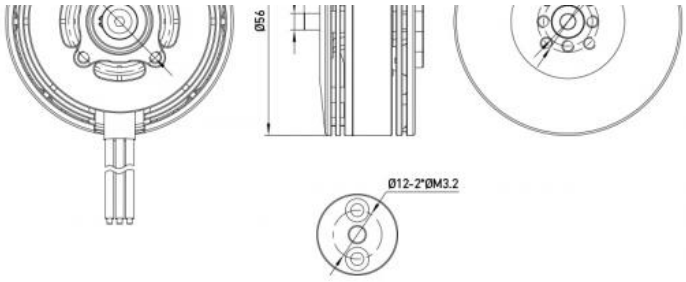
Motor Data

Motor Model	MAD 5008 IPE V3.0	Number of pole pairs	14
Stator	TAIWAN / Anticorrosive	Varnished wire Degree	180°C
Motor Size	D:56 × 29.3 mm	Magnet Degree	150°C
Degree of Protection	IP45	Cable Length	150 mm 16# Awg(Black) silicone
Centrifugal Heat Dissipation	YES	Rotor Balance	≤5 mg
Propeller Mounting Holes	D:12 M3×4, D:15 M3×4	Motor Balance	≤10 mg
Shaft Diameter	IN: 6 mm	Motor Mounting Holes	D:25 M3×4
Bearing	EZO 696ZZ*2	Disruptive test	500 V
Additional Accessories	Propeller Plate *1, Ø4-6 Adapter Ring *1, 3.5mm Bullet Connector*3, Heat Shrinkable Tube*3, M3*8mm *4 Motor Screws, M3*10mm *2 Propeller Screws, Sticker*2		

Specifications

RPM/V	170 KV	Nominal Voltage	12S lipo battery
No Load Current	0.42A/20V	Internal resistance	195mΩ
Motor Weight	141 g	Product Boxed Weight	304g (110 x 110 x 50 mm)
Maximum Current	20.6 A	Maximum Power	981W
Maximum thrust	4.8 kg	Maximum Torque	1.09 Nm
Recommended ESC	MAD AMPX 40A (5-14S) HV	Recommended Propellers	17x5.8, 18x6.1, 18x5.7
UAV take-off weight	12S-18"/ 7kg--Quadcopter 10.5kg--Hexacopter 14kg--Octocopter	Single rotor take-off weight	1.5kg ~ 2kg





MAD 5008 IPE 170KV **FLUXER** PRO 17x5.8 MATT **AMPX** 40A (5-14S) HV **12S** MAX 80℃

Throttle [%]	Voltage [V]	Current [A]	Input Power [W]	Output Power [W]	Torque [N×m]	RPM	Thrust [gf]	Efficiency [%]	Efficiency [gf/W]
30	47.97	0.73	34.8	23.6	0.096	2355	464	69.90	13.7
35	47.97	1.02	47.9	34.9	0.124	2686	607	74.40	12.9
40	47.96	1.37	64.9	48.3	0.154	2999	745	75.60	11.7
45	47.95	1.83	87.0	67.3	0.192	3355	952	78.80	11.1
50	47.94	2.46	117.2	93.0	0.237	3757	1192	80.80	10.4
55	47.93	3.21	153.2	124.7	0.289	4130	1448	83.00	9.6
60	47.92	4.02	191.8	157.8	0.338	4463	1702	83.80	9.0
65	47.9	4.81	229.7	190.3	0.380	4782	1886	84.30	8.4
70	47.88	5.73	274.0	226.4	0.426	5081	2100	84.10	7.8
75	47.86	6.84	326.8	271.9	0.483	5371	2338	84.70	7.3
80	47.84	8.02	383.3	318.6	0.539	5641	2681	84.60	7.1
85	47.82	9.33	445.7	369.7	0.593	5951	2961	84.40	6.8
90	47.8	10.81	516.4	426.0	0.652	6245	3255	83.80	6.4
95	47.76	12.54	598.4	487.4	0.714	6523	3485	82.70	5.9
100	47.72	14.89	709.7	571.4	0.795	6869	3850	81.70	5.5

MAD 5008 IPE 170KV **FLUXER** PRO 18x6.1 MATT **AMPX** 40A (5-14S) HV **12S** MAX 98℃

Throttle [%]	Voltage [V]	Current [A]	Input Power [W]	Output Power [W]	Torque [N×m]	RPM	Thrust [gf]	Efficiency [%]	Efficiency [gf/W]
30	47.96	0.84	39.9	29.0	0.119	2321	501	74.50	12.9
35	47.95	1.2	57.4	43.1	0.156	2647	675	77.20	12.1
40	47.95	1.65	78.9	60.6	0.197	2948	865	78.70	11.2
45	47.94	2.2	104.9	83.0	0.241	3292	1127	80.80	11.0
50	47.92	2.95	140.8	114.0	0.297	3673	1406	82.30	10.1
55	47.91	3.82	182.5	148.9	0.353	4029	1692	83.10	9.4
60	47.89	4.83	230.8	189.7	0.416	4357	2000	83.70	8.8
65	47.88	5.8	277.3	227.6	0.468	4648	2249	83.60	8.3
70	47.86	6.93	331.1	270.7	0.524	4929	2536	83.20	7.8
75	47.83	8.22	392.9	319.3	0.585	5211	2842	82.70	7.4
80	47.81	9.71	463.6	375.9	0.654	5488	3182	82.50	7.0
85	47.78	11.26	537.4	433.3	0.720	5745	3453	81.90	6.5
90	47.75	12.97	618.8	494.2	0.783	6027	3779	81.10	6.2
95	47.72	14.9	710.7	560.1	0.851	6285	4123	80.00	5.9
100	47.67	17.95	855.4	657.6	0.953	6586	4595	77.90	5.4

MAD 5008 IPE 170KV **HAVOC** 18x5.7 folding propeller **AMPX** 40A (5-14S) HV **12S** MAX 110℃

Throttle [%]	Voltage [V]	Current [A]	Input Power [W]	Output Power [W]	Torque [N×m]	RPM	Thrust [gf]	Efficiency [%]	Efficiency [gf/W]
30	47.96	0.95	45.3	34.6	0.144	2291	597	78.00	13.5
35	47.95	1.4	67.0	52.0	0.190	2611	813	79.70	12.5
40	47.94	1.94	92.5	72.7	0.239	2906	931	80.10	10.3
45	47.93	2.58	123.1	99.3	0.293	3234	1248	82.20	10.3
50	47.92	3.44	164.1	134.1	0.356	3596	1550	83.20	9.6
55	47.9	4.44	212.2	174.4	0.424	3930	1775	83.80	8.5
60	47.88	5.56	265.6	217.8	0.490	4246	2116	83.60	8.1
65	47.86	6.79	324.6	266.5	0.562	4527	2377	83.50	7.5
70	47.83	8.08	386.1	314.2	0.626	4796	2717	82.80	7.2
75	47.81	9.53	455.4	366.1	0.690	5067	3134	81.80	7.0
80	47.78	11.25	536.8	428.8	0.769	5323	3487	81.20	6.6
85	47.75	13.2	629.7	494.8	0.846	5584	3844	79.80	6.2
90	47.71	15.05	717.7	557.2	0.915	5813	4131	78.80	5.8
95	47.66	17.34	826.0	626.8	0.991	6042	4463	76.90	5.5
100	47.6	20.63	981.2	718.2	1.088	6304	4790	74.10	4.9

The above data are the theoretical values when the input voltage is 48 V, for reference only. In the case of room temperature of 25°C and no additional cooling device, the current over 21A is non-working zone,7-21A is short-term (about 10-30s), working zone, and below 7A is sustainable working zone. In actual use, please control the motor running time according to the working environment temperature and heat dissipation conditions.

5008

ENERGY EFFICIENT **240KV**

INDUSTRY PROFESSIONAL EDITION

1.0~2.0 kgf
RECOMMENDED HOVER THRUST

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

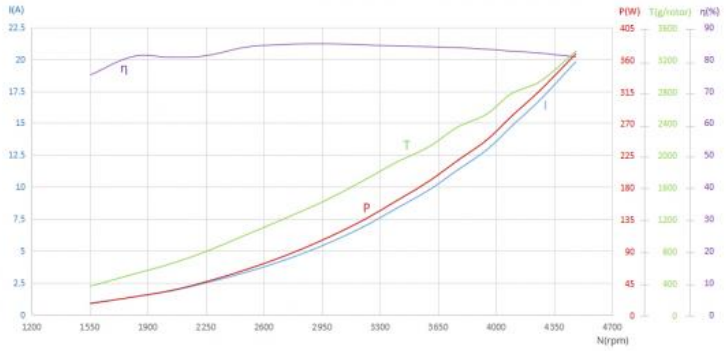
OPTIMIZED WEIGHT 142 g

EFFICIENCY >80%

MAD 5008 IPE 240KV **FLUXER** PRO 21x6.3 MATT **AMPX** 40A PRO (2~6S) **6S** MAX 95℃

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℃ and sea level. The rotational speed was adjusted by the throttle.



Specifications

RPM/V	240 KV	Nominal Voltage	6S lipo battery
No Load Current	0.67A/20V	Internal resistance	104mΩ
Motor Weight	142 g	Product Boxed Weight	305g (110 x 110 x 50 mm)
Maximum Current	29.9 A	Maximum Power	788W
Maximum thrust	4.1 kg	Maximum Torque	1.1 Nm
Recommended ESC	MAD AMPX PRO 40A (2~6S)	Recommended Propellers	20x6.0, 21x6.3, 22x6.6, 22x7.0, 18x6.1
UAV take-off weight	6S-21"/ 5kg--Quadcopter 7.5kg--Hexacopter 10kg--Octocopter	Single rotor take-off weight	1kg ~ 2kg

MAD 5008 IPE 240KV **FLUXER** PRO 20x6.0 MATT **AMPX** 40A PRO (2~6S) **6S** MAX 93℃

Throttle [%]	Voltage [V]	Current [A]	Input Power [W]	Output Power [W]	Torque [N×m]	RPM	Thrust [gf]	Efficiency [%]	Efficiency [gf/W]
30	23.94	0.78	18.2	13.2	0.080	1587	304	75.20	17.3
35	23.93	1.17	27.5	20.6	0.106	1860	425	78.10	16.1
40	23.93	1.62	38.1	29.3	0.135	2084	549	79.40	14.9
45	23.92	2.1	49.7	38.9	0.162	2292	684	81.30	14.3
50	23.91	2.68	63.7	50.5	0.194	2490	831	82.80	13.6
55	23.89	3.7	88.1	71.1	0.240	2829	1039	84.10	12.3
60	23.87	4.77	113.3	91.7	0.283	3091	1241	83.80	11.4
65	23.85	5.85	139.2	112.2	0.324	3306	1445	83.50	10.8
70	23.83	6.97	165.5	134.1	0.364	3516	1637	83.80	10.2
75	23.81	8.21	195.1	157.8	0.405	3719	1853	83.80	9.8
80	23.79	9.61	228.4	184.3	0.450	3911	2055	83.60	9.3
85	23.76	10.92	259.0	210.1	0.492	4081	2232	83.80	8.9
90	23.74	12.33	292.2	236.3	0.530	4262	2413	83.50	8.5
95	23.7	14.08	333.3	268.9	0.579	4433	2639	83.10	8.2
100	23.66	16.66	393.6	315.4	0.643	4687	2926	82.40	7.7

MAD 5008 IPE 240KV **FLUXER** PRO 21x6.3 MATT **AMPX** 40A PRO (2~6S) **6S** MAX 95℃

Throttle [%]	Voltage [V]	Current [A]	Input Power [W]	Output Power [W]	Torque [N×m]	RPM	Thrust [gf]	Efficiency [%]	Efficiency [gf/W]
30	23.93	0.92	21.8	15.7	0.097	1556	358	75.10	17.1
35	23.92	1.39	32.9	25.3	0.133	1819	511	80.90	16.3
40	23.91	1.87	44.1	34.3	0.160	2044	641	80.60	15.1
45	23.9	2.47	58.6	45.8	0.195	2242	785	81.00	13.9
50	23.88	3.34	79.3	63.9	0.245	2498	1005	83.80	13.2
55	23.87	4.32	102.8	83.7	0.292	2734	1212	84.60	12.3
60	23.84	5.42	128.7	105.4	0.341	2955	1415	84.80	11.4
65	23.82	6.83	162.3	132.4	0.396	3192	1670	84.50	10.7
70	23.79	8.33	197.7	160.6	0.451	3401	1911	84.10	10.0
75	23.77	9.74	231.0	187.7	0.499	3592	2100	83.90	9.4
80	23.74	11.33	268.4	217.3	0.551	3768	2349	83.60	9.0
85	23.71	12.89	305.2	245.9	0.596	3942	2511	83.10	8.5
90	23.68	14.76	349.0	279.7	0.653	4094	2770	82.50	8.2
95	23.65	16.74	395.2	314.8	0.706	4259	2913	81.90	7.6
100	23.59	19.8	466.6	367.4	0.783	4480	3298	80.70	7.3

MAD 5008 IPE 240KV **FLUXER** PRO 22x6.6 MATT **AMPX** 40A PRO (2~6S) **6S** MAX 98℃

Throttle [%]	Voltage [V]	Current [A]	Input Power [W]	Output Power [W]	Torque [N×m]	RPM	Thrust [gf]	Efficiency [%]	Efficiency [gf/W]
30	23.92	1.03	24.0	18.0	0.113	1519	409	78.40	17.8
35	23.92	1.62	38.2	29.3	0.157	1789	586	80.20	16.0
40	23.91	2.25	53.3	41.5	0.197	2017	752	80.90	14.7
45	23.89	2.84	67.3	53.0	0.232	2186	905	81.70	14.0
50	23.88	3.68	87.5	69.5	0.278	2392	1100	82.70	13.1
55	23.85	4.92	116.8	93.9	0.338	2655	1346	83.30	11.9
60	23.83	6.15	146.1	117.7	0.391	2878	1579	83.60	11.2
65	23.81	7.64	181.6	145.9	0.451	3092	1846	83.20	10.5
70	23.78	9.36	222.1	176.9	0.512	3303	2102	82.30	9.8
75	23.75	10.9	258.2	205.6	0.565	3473	2332	82.20	9.3
80	23.72	12.5	296.0	235.1	0.617	3638	2545	81.90	8.9
85	23.68	14.48	342.4	269.7	0.677	3807	2803	81.10	8.4
90	23.65	16.57	391.2	305.2	0.735	3965	3018	80.10	7.9
95	23.61	18.68	440.7	340.5	0.790	4117	3188	79.30	7.4
100	23.54	22.23	522.9	397.2	0.877	4327	3565	77.70	7.0

MAD 5008 IPE 240KV **HAVOC** 22x7.0 folding propeller **AMPX** 40A PRO (2~6S) **6S** MAX 83℃

Throttle [%]	Voltage [V]	Current [A]	Input Power [W]	Output Power [W]	Torque [N×m]	RPM	Thrust [gf]	Efficiency [%]	Efficiency [gf/W]
30	24.12	1.38	32.9	24.7	0.162	1455	546	76.00	16.8
35	24.1	2.2	52.4	40.5	0.225	1721	786	77.30	15.0
40	24.08	3.18	76.1	58.5	0.286	1952	1022	77.30	13.5
45	24.07	3.95	94.7	72.5	0.332	2089	1197	76.90	12.7
50	24.04	5.06	120.9	92.2	0.389	2263	1400	76.20	11.6
55	24.02	6.34	151.6	115.0	0.449	2445	1636	75.90	10.8
60	23.99	8.29	198.5	149.9	0.536	2672	1967	78.30	10.3
65	23.96	10.14	242.3	181.1	0.603	2868	2233	77.90	9.6
70	23.91	12.38	295.4	217.8	0.684	3042	2537	76.60	8.9
75	23.88	14.61	348.3	251.7	0.753	3195	2799	75.00	8.3
80	23.83	17.36	413.0	291.8	0.832	3348	3089	73.20	7.7
85	23.79	19.64	466.7	324.4	0.892	3472	3313	71.80	7.3
90	23.73	22.58	535.2	362.1	0.961	3597	3550	69.70	6.8
95	23.67	26.18	619.0	401.5	1.032	3715	3774	66.70	6.3
100	23.61	29.95	706.5	446.0	1.106	3852	4037	64.80	5.9

MAD 5008 IPE 240KV **FLUXER** PRO 17x5.8 MATT **AMPX** 40A PRO (2~6S) **8S** MAX 60℃

Throttle [%]	Voltage [V]	Current [A]	Input Power [W]	Output Power [W]	Torque [N×m]	RPM	Thrust [gf]	Efficiency [%]	Efficiency [gf/W]
30	32.1	0.96	30.6	20.2	0.086	2242	401	66.10	13.1
35	32.1	1.33	42.5	29.5	0.111	2553	527	70.20	12.5
40	32.09	1.77	56.3	41.0	0.138	2843	657	73.10	11.7
45	32.08	2.34	75.0	56.0	0.169	3160	822	75.70	11.1
50	32.06	3.11	99.4	77.4	0.209	3532	1022	77.90	10.3
55	32.05	4.03	128.8	102.1	0.250	3895	1244	79.50	9.7
60	32.03	5.02	160.3	128.8	0.291	4224	1446	80.40	9.0
65	32	6.15	196.1	159.6	0.338	4515	1660	81.40	8.5
70	31.98	7.33	234.2	191.4	0.381	4797	1825	84.40	8.1
75	31.96	8.62	274.8	223.8	0.421	5079	2029	83.80	7.6
80	31.93	10.14	323.3	265.2	0.473	5353	2294	84.50	7.3
85	31.9	11.8	375.8	307.9	0.524	5618	2602	84.30	7.1
90	31.87	13.64	434.1	354.2	0.574	5890	2882	83.80	6.8
95	31.83	15.7	499.2	405.2	0.629	6149	3155	83.30	6.5
100	31.77	18.57	589.5	472.3	0.696	6476	3485	82.10	6.1

MAD 5008 IPE 240KV **FLUXER** PRO 18x6.1 MATT **AMPX** 40A PRO (2~6S) **8S** MAX 68℃

Throttle [%]	Voltage [V]	Current [A]	Input Power [W]	Output Power [W]	Torque [N×m]	RPM	Thrust [gf]	Efficiency [%]	Efficiency [gf/W]
30	32.1	1.12	35.3	24.8	0.108	2203	468	70.30	13.3
35	32.09	1.55	49.3	36.3	0.139	2502	618	73.80	12.6
40	32.08	2.07	65.9	49.0	0.168	2792	757	74.40	11.5
45	32.07	2.76	88.0	68.0	0.210	3093	963	77.40	11.0
50	32.06	3.64	116.3	92.2	0.255	3449	1172	79.40	10.1
55	32.03	4.76	151.9	123.3	0.310	3794	1421	81.20	9.4
60	32.01	6.07	193.7	158.7	0.370	4102	1731	82.10	9.0
65	31.98	7.31	233.5	192.0	0.418	4391	1962	84.80	8.7
70	31.96	8.67	276.5	227.4	0.467	4646	2175	84.80	8.1
75	31.93	10.2	325.4	266.9	0.520	4902	2431	84.50	7.7
80	31.9	11.91	379.2	310.5	0.576	5151	2686	84.20	7.3
85	31.86	13.81	439.4	357.5	0.633	5394	2975	83.60	7.0
90	31.83	15.93	506.7	408.2	0.692	5636	3229	82.60	6.5
95	31.78	18.19	577.5	462.6	0.752	5871	3507	82.10	6.2
100	31.71	21.62	685.1	542.9	0.839	6178	3926	81.00	5.9

MAD 5008 IPE 240KV **HAVOC** 18x5.7 folding propeller **AMPX** 40A PRO (2~6S) **8S** MAX 74℃

Throttle [%]	Voltage [V]	Current [A]	Input Power [W]	Output Power [W]	Torque [N×m]	RPM	Thrust [gf]	Efficiency [%]	Efficiency [gf/W]
30	32.09	1.26	40.0	28.8	0.127	2173	519	72.20	13.0
35	32.09	1.81	57.6	43.2	0.168	2467	700	75.60	12.2
40	32.08	2.47	78.7	60.1	0.208	2762	858	76.40	10.9
45	32.06	3.17	101.1	78.9	0.248	3046	977	78.00	9.7
50	32.05	4.2	134.0	107.9	0.305	3385	1160	80.50	8.7

55	32.02	5.53	176.7	142.5	0.367	3709	1499	80.70	8.5
60	31.99	6.94	221.7	179.9	0.428	4016	1764	82.90	8.1
65	31.96	8.44	269.2	217.8	0.485	4288	2004	83.40	7.7
70	31.94	10	318.7	258.0	0.542	4544	2211	83.40	7.1
75	31.9	11.87	377.9	303.7	0.607	4782	2607	82.60	7.1
80	31.86	13.89	441.9	351.5	0.668	5023	2986	81.70	6.9
85	31.82	16.22	515.5	406.5	0.739	5257	3250	80.90	6.5
90	31.77	18.52	588.1	461.2	0.801	5499	3583	80.40	6.2
95	31.71	21.08	668.1	518.3	0.866	5715	3827	79.30	5.9
100	31.66	24.93	788.7	600.3	0.958	5987	4166	77.70	5.4

The above data are the theoretical values when the input voltage is 32 V, for reference only. In the case of room temperature of 25°C and no additional cooling device, the current over 25A is non-working zone,8-25A is short-term (about 10-30s), working zone, and below 8A is sustainable working zone. In actual use, please control the motor running time according to the working environment temperature and heat dissipation conditions.

5008

ENERGY EFFICIENT 300KV

INDUSTRY PROFESSIONAL EDITION

1.0~1.2 kgf
RECOMMENDED HOVER THRUST

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

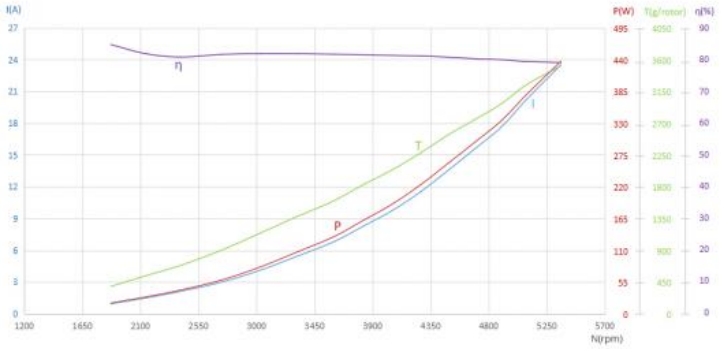
OPTIMIZED WEIGHT 136 g

EFFICIENCY >80%

MAD 5008 IPE 300KV **FLUXER** PRO 18x6.1 MATT **AMPX** 40A PRO (2~6S) **6S** MAX 72℃

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℃ and sea level. The rotational speed was adjusted by the throttle.



Specifications

RPM/V	300 KV	Nominal Voltage	6S lipo battery
No Load Current	0.99A / 20V	Internal resistance	80mΩ
Motor Weight	136 g	Product Boxed Weight	299g (110 x 110 x 50 mm)
Maximum Current	25.5 A	Maximum Power	602W
Maximum thrust	3.8 kg	Maximum Torque	0.84 Nm
Recommended ESC	MAD AMPX PRO 40A (2~6S)	Recommended Propellers	18x6.1，18x5.7，19x5.7，20x6.0
UAV take-off weight	6S-18"/ 5kg--Quadcopter 7.5kg--Hexacopter 10kg--Octocopter	Single rotor take-off weight	1kg ~ 2kg

MAD 5008 IPE 300KV **FLUXER** PRO 18x6.1 MATT **AMPX** 40A PRO (2~6S) **6S** MAX 72℃

Throttle [%]	Voltage [V]	Current [A]	Input Power [W]	Output Power [W]	Torque [N×m]	RPM	Thrust [gf]	Efficiency [%]	Efficiency [gf/W]
30	24.29	0.86	20.6	16.2	0.081	1913	363	78.58	17.4
35	24.28	1.32	31.9	24.8	0.108	2201	497	77.60	15.5
40	24.26	1.83	43.8	34.8	0.135	2468	626	79.45	14.1
45	24.23	2.65	63.7	51.5	0.175	2819	826	80.87	12.9
50	24.19	3.64	87.6	71.2	0.215	3157	1027	81.18	11.6
55	24.15	4.76	114.5	93.5	0.260	3440	1240	81.60	10.8
60	24.11	5.88	141.3	115.5	0.298	3707	1440	81.71	10.2
65	24.07	7.12	170.8	140.3	0.338	3962	1624	82.05	9.5
70	24.03	8.52	204.0	167.8	0.383	4189	1843	82.24	9.0
75	23.98	9.96	238.3	195.4	0.424	4407	2049	81.95	8.6
80	23.93	11.51	275.0	224.7	0.462	4643	2244	81.67	8.1
85	23.86	13.23	315.0	257.1	0.506	4854	2447	81.55	7.8
90	23.8	15.24	362.1	296.4	0.560	5058	2695	81.79	7.4
95	23.74	17.17	407.1	330.2	0.598	5272	2900	81.06	7.1

100	23.63	20.37	480.9	388.6	0.670	5543	3255	80.76	6.8

MAD 5008 IPE 300KV **HAVOC** 18x5.7 folding propeller **AMPX** 40A PRO (2~6S) **6S** MAX 76℃

Throttle [%]	Voltage [V]	Current [A]	Input Power [W]	Output Power [W]	Torque [N×m]	RPM	Thrust [gf]	Efficiency [%]	Efficiency [gf/W]
30	24.28	0.94	22.0	18.7	0.095	1871	388	84.71	17.1
35	24.26	1.51	36.0	29.5	0.131	2150	543	81.80	14.8
40	24.24	2.11	50.6	40.9	0.162	2407	682	80.82	13.3
45	24.21	2.97	71.2	58.1	0.204	2724	897	81.59	12.5
50	24.18	4.11	98.8	81.0	0.255	3028	1142	81.88	11.5
55	24.12	5.46	131.2	107.5	0.309	3320	1382	81.85	10.5
60	24.08	6.79	163.0	133.2	0.354	3597	1598	81.67	9.8
65	24.03	8.3	198.8	162.2	0.404	3832	1833	81.51	9.2
70	23.98	9.78	234.1	190.4	0.448	4056	2043	81.30	8.7
75	23.92	11.57	276.2	224.3	0.501	4277	2285	81.14	8.3
80	23.84	13.62	324.1	261.9	0.557	4493	2543	80.75	7.8
85	23.77	15.6	370.3	297.4	0.605	4695	2752	80.26	7.4
90	23.7	17.66	418.2	334.6	0.652	4899	2976	79.96	7.1
95	23.63	20.16	475.9	378.2	0.710	5087	3237	79.40	6.8
100	23.52	23.51	552.7	437.2	0.779	5360	3512	79.06	6.4

MAD 5008 IPE 300KV **FLUXER** PRO 19x5.7 MATT **AMPX** 40A PRO (2~6S) **6S** MAX 83℃

Throttle [%]	Voltage [V]	Current [A]	Input Power [W]	Output Power [W]	Torque [N×m]	RPM	Thrust [gf]	Efficiency [%]	Temp. [°C]
30	23.98	1.02	23.9	16.5	0.083	1898	366	71.90	15.9
35	23.97	1.45	34.3	24.9	0.109	2181	494	75.70	15.0
40	23.96	1.96	46.2	34.7	0.136	2443	615	77.70	13.8
45	23.95	2.81	66.7	51.7	0.177	2791	812	80.60	12.7
50	23.93	3.73	88.8	70.4	0.218	3088	1015	82.60	11.9
55	23.92	4.76	113.5	90.1	0.257	3352	1208	82.60	11.1
60	23.9	5.97	142.0	113.2	0.300	3607	1407	82.80	10.3
65	23.87	7.22	171.6	137.6	0.341	3854	1621	83.10	9.8
70	23.85	8.45	201.2	162.1	0.379	4087	1811	83.50	9.3
75	23.82	10.05	238.7	194.8	0.429	4336	2040	84.40	8.8
80	23.8	11.61	275.8	222.5	0.469	4530	2224	83.50	8.3
85	23.77	13.36	317.0	254.1	0.512	4740	2456	82.80	8.0
90	23.72	15.69	371.7	304.9	0.579	5032	2772	84.60	7.7
95	23.69	17.71	419.1	342.2	0.624	5237	2993	84.10	7.4
100	23.64	20.94	494.6	400.2	0.694	5507	3342	83.10	6.9

MAD 5008 IPE 300KV **FLUXER** PRO 20x6.0 MATT **AMPX** 40A PRO (2~6S) **6S** MAX 88℃

Throttle [%]	Voltage [V]	Current [A]	Input Power [W]	Output Power [W]	Torque [N×m]	RPM	Thrust [gf]	Efficiency [%]	Temp. [°C]
30	24.04	1.17	27.7	20.3	0.106	1846	436	73.70	15.8
35	24.03	1.75	41.9	31.8	0.143	2133	604	76.00	14.4
40	24.02	2.38	56.9	43.5	0.175	2372	761	76.40	13.4
45	24	3.25	77.4	61.3	0.220	2657	982	80.60	12.9
50	23.98	4.37	104.5	83.8	0.271	2953	1204	83.90	12.1
55	23.96	5.75	137.3	110.8	0.324	3264	1462	84.00	11.1
60	23.93	7.18	171.4	138.3	0.374	3535	1709	84.00	10.4
65	23.9	8.75	208.6	168.7	0.427	3771	1973	84.00	9.8
70	23.87	10.38	247.5	199.3	0.477	3993	2210	83.60	9.3
75	23.84	12.37	294.5	235.4	0.532	4225	2473	82.80	8.7
80	23.81	14.46	343.8	273.3	0.588	4440	2719	82.30	8.2
85	23.77	16.66	395.5	312.9	0.644	4637	2992	81.70	7.8
90	23.72	19	450.3	354.1	0.700	4828	3255	81.10	7.5
95	23.69	21.67	512.9	400.0	0.761	5017	3534	80.30	7.1
100	23.62	25.52	602.3	463.2	0.840	5268	3879	79.00	6.6

The above data are the theoretical values when the input voltage is 48 V, for reference only. In the case of room temperature of 25°C and no additional cooling device, the current over 26A is non-working zone,9-26A is short-term (about 10-30s), working zone, and below 9A is sustainable working zone. In actual use, please control the motor running time according to the working environment temperature and heat dissipation conditions.

5008

ENERGY EFFICIENT 340KV

INDUSTRY PROFESSIONAL EDITION

1.5~2.0 kgf
RECOMMENDED HOVER THRUST

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

OPTIMIZED WEIGHT 136 g

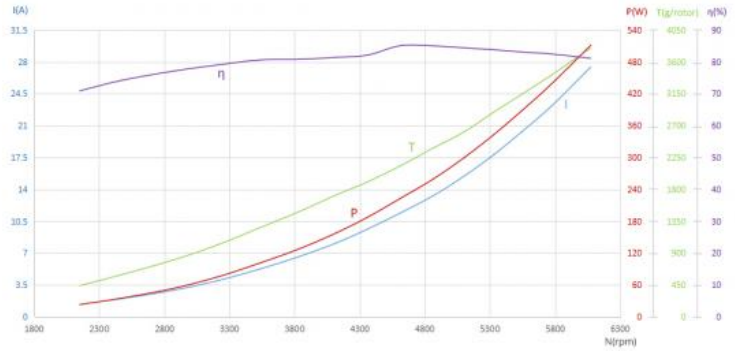
EFFICIENCY >79%

MAX

MAD 5008 IPE 340KV **FLUXER** PRO 18x6.1 MATT **AMPX** 40A PRO (2~6S) **6S** 86℃

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℃ and sea level. The rotational speed was adjusted by the throttle.



Specifications

RPM/V	340KV	Nominal Voltage	6S lipo battery
No Load Current	1.1A / 20V	Internal resistance	66.4mΩ
Motor Weight	136 g	Product Boxed Weight	299g (110 x 110 x 50 mm)
Maximum Current	27.7 A	Maximum Power	734W
Maximum thrust	4.0 kg	Maximum Torque	0.91 Nm
Recommended ESC	MAD AMPX PRO 40A (2~6S)	Recommended Propellers	17x5.8, 18x6.1, 18x5.7, 19x5.7
UAV take-off weight	6S-18"/ 6kg--Quadcopter 9kg--Hexacopter 12kg--Octocopter	Single rotor take-off weight	1.5kg ~ 2kg

MAD 5008 IPE 340KV **FLUXER** PRO 17x5.8 MATT **AMPX** 40A PRO (2~6S) **6S** MAX 77℃

Throttle [%]	Voltage [V]	Current [A]	Input Power [W]	Output Power [W]	Torque [N×m]	RPM	Thrust [gf]	Efficiency [%]	Temp. [°C]
30	24	1.22	28.7	18.8	0.082	2201	380	66.30	13.4
35	23.98	1.69	39.9	27.3	0.104	2514	500	71.40	13.1
40	23.97	2.5	59.1	44.1	0.145	2904	702	77.50	12.3
45	23.96	3.35	79.6	60.6	0.178	3247	881	79.20	11.5
50	23.94	4.38	104.5	81.1	0.217	3580	1090	81.00	10.9
55	23.92	5.52	131.6	103.7	0.254	3903	1290	82.10	10.2
60	23.9	6.7	159.5	126.8	0.289	4194	1486	82.60	9.7
65	23.87	8	190.4	153.4	0.329	4450	1664	83.60	9.1
70	23.85	9.48	225.7	182.2	0.368	4732	1859	83.70	8.5
75	23.82	11.06	262.9	213.2	0.407	4997	2065	83.90	8.1
80	23.79	12.93	307.1	249.2	0.454	5245	2327	83.90	7.8
85	23.75	14.9	353.3	285.9	0.498	5480	2556	83.50	7.5
90	23.72	16.94	401.2	326.0	0.544	5721	2780	83.70	7.1
95	23.68	19.53	461.9	373.3	0.597	5974	3034	83.10	6.8
100	23.6	23.12	545.4	438.4	0.665	6296	3365	82.50	6.3

MAD 5008 IPE 340KV **HAVOC** 18x5.7 folding propeller **AMPX** 40A PRO (2~6S) **6S** MAX 78℃

Throttle [%]	Voltage [V]	Current [A]	Input Power [W]	Output Power [W]	Torque [N×m]	RPM	Thrust [gf]	Efficiency [%]	Temp. [°C]
30	24.15	1.53	36.1	25.9	0.118	2094	481	72.00	13.4
35	24.13	2.24	53.4	39.8	0.159	2398	611	74.60	11.5
40	24.11	3.43	82.1	64.1	0.220	2785	935	78.30	11.4
45	24.09	4.64	111.4	87.6	0.269	3117	1152	79.10	10.4
50	24.07	5.98	143.4	112.9	0.313	3444	1422	78.90	9.9
55	24.04	7.47	179.1	143.6	0.368	3725	1589	80.20	8.9
60	24	9.37	224.5	179.2	0.429	3990	1881	79.80	8.4
65	23.98	11.03	263.9	211.9	0.479	4229	2000	83.70	7.9
70	23.94	13.07	312.5	250.0	0.533	4483	2239	83.30	7.5
75	23.9	15.34	366.3	291.7	0.591	4713	2532	82.70	7.2
80	23.86	17.89	426.2	335.7	0.650	4930	2933	81.60	7.1
85	23.81	20.52	488.3	380.7	0.708	5135	3192	80.70	6.8
90	23.76	23.43	556.0	430.8	0.770	5347	3512	80.00	6.5
95	23.7	26.37	624.6	479.7	0.825	5550	3789	79.10	6.3
100	23.62	27.73	734.2	554.9	0.911	5815	3994	77.60	5.6

MAD 5008 IPE 340KV **FLUXER** PRO 18x6.1 MATT **AMPX** 40A PRO (2~6S) **6S** MAX 86℃

Throttle [%]	Voltage [V]	Current [A]	Input Power [W]	Output Power [W]	Torque [N×m]	RPM	Thrust [gf]	Efficiency [%]	Temp. [°C]
30	24.15	1.36	32.6	22.9	0.102	2151	439	70.90	13.6
35	24.13	1.96	46.7	34.5	0.134	2462	589	74.10	12.6
40	24.12	2.91	69.6	53.4	0.178	2871	803	77.10	11.6
45	24.1	3.95	94.5	74.7	0.223	3206	1013	79.00	10.7
50	24.08	5.25	125.9	101.2	0.273	3535	1258	80.60	10.0
55	24.05	6.6	158.4	127.6	0.318	3833	1483	80.80	9.4
60	24.03	8.1	193.9	157.8	0.366	4119	1719	81.40	8.9
65	24	9.6	229.7	186.9	0.410	4356	1901	82.10	8.4
70	23.96	11.45	273.8	223.9	0.463	4619	2138	85.10	8.1

75	23.93	13.3	317.9	259.5	0.509	4865	2383	85.00	7.8
80	23.9	15.43	368.4	299.2	0.560	5099	2609	84.40	7.4
85	23.86	17.76	423.1	342.1	0.614	5325	2885	83.80	7.1
90	23.81	20.3	483.0	387.6	0.668	5542	3140	83.10	6.7
95	23.76	23.01	546.1	436.2	0.723	5762	3402	82.50	6.4
100	23.69	27.44	649.5	511.5	0.804	6074	3797	81.10	6.0

MAD 5008 IPE 340KV **FLUXER** PRO 19x5.7 MATT **AMPX** 40A PRO (2~6S) **6S** MAX 92℃

Throttle [%]	Voltage [V]	Current [A]	Input Power [W]	Output Power [W]	Torque [N×m]	RPM	Thrust [gf]	Efficiency [%]	Temp. [°C]
30	23.86	1.43	33.9	23.4	0.105	2128	460	71.90	14.1
35	23.85	2.01	47.6	34.6	0.136	2428	611	75.70	13.4
40	23.84	2.67	63.1	46.8	0.166	2696	750	77.10	12.3
45	23.81	4.15	98.1	77.2	0.233	3161	1075	81.30	11.3
50	23.79	5.44	129.0	102.7	0.282	3481	1309	82.40	10.5
55	23.76	6.81	161.2	129.4	0.328	3770	1531	82.80	9.8
60	23.73	8.36	197.7	160.3	0.378	4049	1789	83.60	9.3
65	23.71	9.96	235.6	190.7	0.425	4282	2027	83.40	8.9
70	23.68	11.73	277.3	225.4	0.474	4543	2223	83.60	8.3
75	23.64	13.73	324.3	263.3	0.526	4778	2459	83.50	7.8
80	23.6	15.86	373.7	302.7	0.577	5013	2734	83.00	7.5
85	23.56	18.19	428.0	344.9	0.630	5230	2995	82.50	7.2
90	23.52	20.66	485.4	389.1	0.682	5451	3266	81.90	6.9
95	23.47	23.38	548.2	436.0	0.736	5656	3537	81.10	6.6
100	23.4	27.73	648.3	508.6	0.816	5953	3924	79.80	6.2

The above data are the theoretical values when the input voltage is 24 V, for reference only. In the case of room temperature of 25°C and no additional cooling device, the current over 28A is non-working zone,10-28A is short-term (about 10-30s), working zone, and below 10A is sustainable working zone. In actual use, please control the motor running time according to the working environment temperature and heat dissipation conditions.

5008

ENERGY EFFICIENT 400KV

INDUSTRY PROFESSIONAL EDITION

1.5~2.0 kgf
RECOMMENDED HOVER THRUST

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

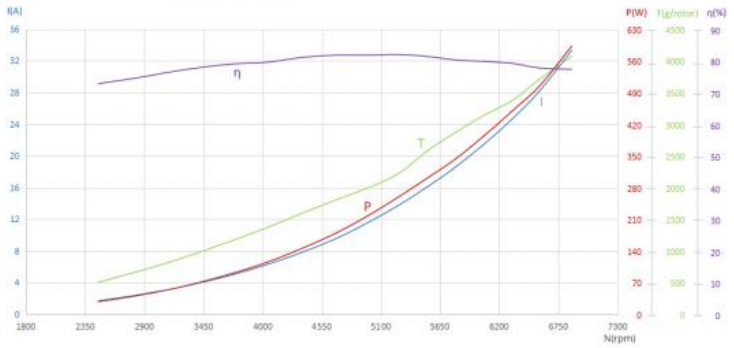
OPTIMIZED WEIGHT 141 g

EFFICIENCY >79%

MAD 5008 IPE 400KV **FLUXER** PRO 17x5.8 MATT **AMPX** 40A PRO (2~6S) **6S** MAX 88℃

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℃ and sea level. The rotational speed was adjusted by the throttle.



Specifications

RPM/V	400 KV	Nominal Voltage	6S lipo battery
No Load Current	1.35A / 20V	Internal resistance	44.5mΩ
Motor Weight	141 g	Product Boxed Weight	304g (110 x 110 x 50 mm)
Maximum Current	33.3 A	Maximum Power	776.8W
Maximum thrust	4.1 kg	Maximum Torque	0.82 Nm
Recommended ESC	MAD AMPX PRO 40A (2~6S)	Recommended Propellers	16x5.4，17x5.8
UAV take-off weight	6S-17"/ 7kg--Quadcopter 10.5kg--Hexacopter 14kg--Octocopter	Single rotor take-off weight	1.5kg ~ 2kg

MAD 5008 IPE 400KV **FLUXER** PRO 16x5.4 MATT **AMPX** 40A PRO (2~6S) **6S** MAX 75℃

Throttle [%]	Voltage [V]	Current [A]	Input Power [W]	Output Power [W]	Torque [N×m]	RPM	Thrust [gf]	Efficiency [%]	Temp. [°C]
30	24.02	1.46	34.9	22.1	0.084	2528	391	63.50	11.2
35	23.99	2.14	51.0	34.4	0.113	2922	544	69.60	11.0
40	23.98	3.05	72.8	52.3	0.150	3344	725	74.90	10.4
45	23.97	4.09	97.6	72.3	0.186	3721	921	77.20	9.8
50	23.94	5.33	127.0	95.8	0.223	4098	1119	78.50	9.2
55	23.92	6.44	153.5	116.5	0.254	4381	1275	78.90	8.6
60	23.9	7.89	188.1	145.2	0.294	4724	1482	80.20	8.2
65	23.87	9.5	226.3	178.3	0.336	5067	1686	81.80	7.7
70	23.84	11.31	269.1	211.9	0.378	5356	1916	81.70	7.4
75	23.81	13.25	315.0	247.4	0.419	5635	2129	81.30	7.0
80	23.77	15.61	370.2	291.7	0.469	5940	2390	81.40	6.7
85	23.73	17.7	419.8	328.9	0.504	6235	2577	80.80	6.3
90	23.68	20.48	484.4	381.5	0.560	6506	2851	81.10	6.1
95	23.63	23.41	552.8	435.1	0.612	6790	3130	80.80	5.8
100	23.55	27.84	655.0	511.3	0.685	7126	3504	79.90	5.5

MAD 5008 IPE 400KV **FLUXER** PRO 17x5.8 MATT **AMPX** 40A PRO (2-6S) 6S MAX 88°C

Throttle [%]	Voltage [V]	Current [A]	Input Power [W]	Output Power [W]	Torque [N×m]	RPM	Thrust [gf]	Efficiency [%]	Temp. [°C]
30	23.87	1.69	40.0	27.7	0.107	2472	504	72.80	13.2
35	23.85	2.41	56.9	40.8	0.138	2827	668	74.60	12.2
40	23.84	3.42	80.8	59.9	0.177	3235	877	77.00	11.3
45	23.81	4.84	114.8	87.6	0.227	3680	1139	78.90	10.3
50	23.79	6.3	149.6	115.2	0.272	4046	1371	79.60	9.5
55	23.76	7.84	185.8	145.9	0.319	4371	1597	81.10	8.9
60	23.73	9.6	227.3	180.2	0.367	4689	1808	81.80	8.2
65	23.69	11.56	273.4	217.3	0.417	4976	1992	81.80	7.5
70	23.65	13.74	324.5	258.8	0.470	5261	2217	82.00	7.0
75	23.61	16.08	379.0	300.8	0.520	5530	2578	81.40	7.0
80	23.57	18.6	437.9	343.2	0.566	5793	2869	80.30	6.7
85	23.51	21.59	507.2	396.2	0.624	6067	3148	79.80	6.3
90	23.46	24.68	578.3	449.3	0.679	6321	3375	79.20	6.0
95	23.41	28.06	656.1	502.2	0.731	6565	3699	77.80	5.7
100	23.32	33.33	776.8	592.6	0.823	6873	4072	77.30	5.3

The above data are the theoretical values when the input voltage is 24 V, for reference only. In the case of room temperature of 25°C and no additional cooling device, the current over 33A is non-working zone,12-33A is short-term (about 10-30s), working zone, and below 12A 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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