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# G-SERIES MOTOR

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## G-2212

1.....	SUMMARY
2.....	FEATURES
3.....	DETAILS
4.....	DIMENSION&INSTALL
5.....	HD PICTURE & PACKAGE
6.....	.980Kv REPORT
7.....	1250Kv REPORT
8.....	1400Kv REPORT
9.....	.2400Kv REPORT
10.....	NOTES
11.....	CERTIFICATION

**SHENZHEN TTF TECHNOLOGY CO., LTD**

2F, UNIVERSITY-TOWN BUSINESS PARK, NANSHAN DISTRICT, SHENZHEN, CHINA (518055)

## SUMMARY

REPORT DATE	PRODUCT NAME	PREPARED BY
January 4, 2016	BLDC MOTOR	Daniel

## PRODUCT FEATURES

1. Shell: Graphene metal + professional aluminum for aviation industry
2. Stator: Graphene alloy wire, Kawasaki 0.2mm silicon steel, orderly winding
3. Bearing: NSK 60,000 RPM
4. Magnet & powerline: N40UH & 20AWG (200°C | 392°F)
5. Certification: CE; ROHS; FCC; UL; ETL; ETC.
6. EDITION: Standard-Edition, Ultimate-Edition, Customize-Edition, Limited-Edition, Waterproof-Edition.

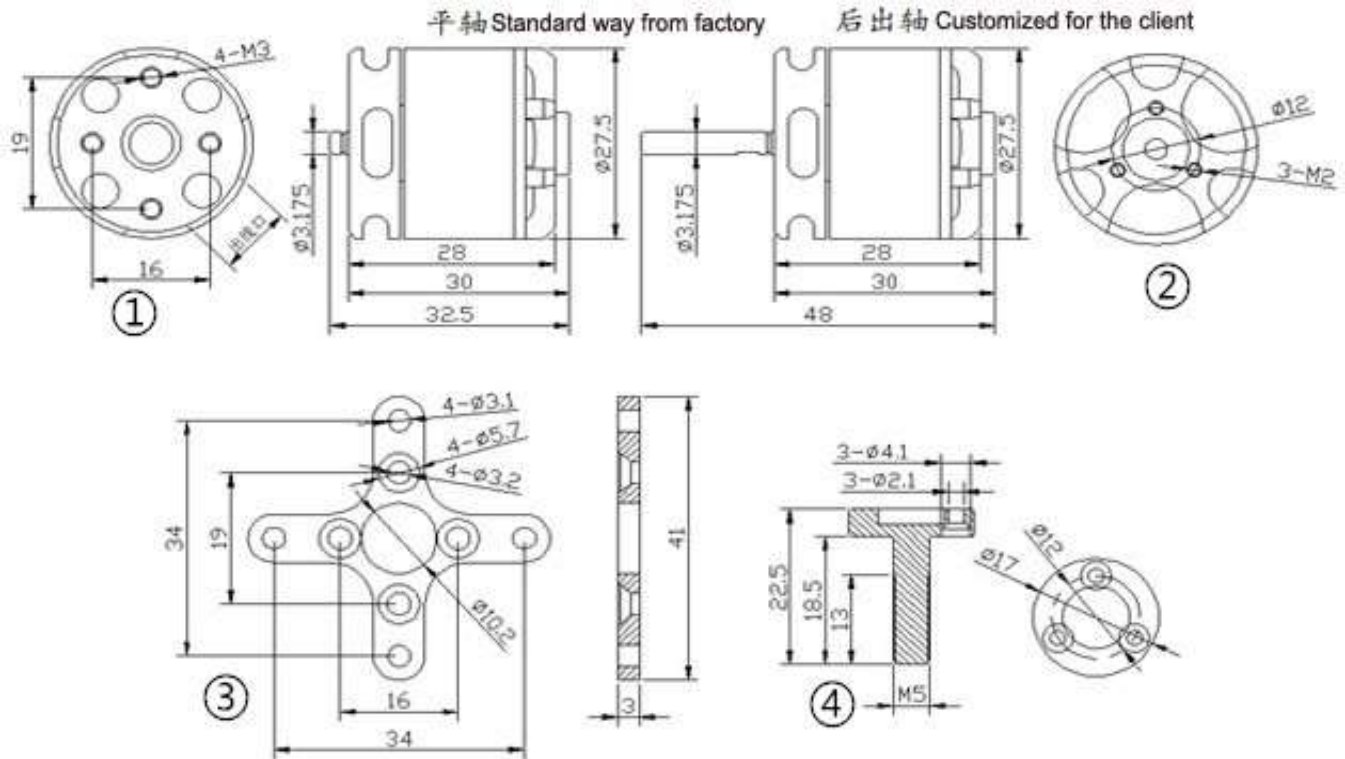
## DETAILS

KV	CONFIGURATION	IDLE CURRENT@10V (A)	INTERNAL RESISTANCE	MAX CONTINUOUS CURRENT@180S(A)	MAX CONTINUOUS POWER@180S(W)	EFFICIENCY (3.5-10) A
980	12N14P	0.45	95mΩ	18	225	92%
1250	12N14P	0.55	55mΩ	25.5	348	91%
1400	12N14P	0.85	35mΩ	27.5	375	91%
2400	12N10P	1.50	21mΩ	39	420	87%

KV	MOTOR DIM(MM)	STATOR DIM(MM)	WEIGHT (G)	MATCHED LIPO	MATCHED ESC(A)	MATCHED PROP(INCH)
980	D27.2*39	D22*12	52	3-4S	20	8-10
1250	D27.2*39	D22*12	52	2-4S	30	8-9
1400	D27.2*39	D22*12	52	2-4S	30	7-9
2400	D27.2*39	D22*12	52	2-3S	40	6

[BACK TO THE TOP](#)

## DIMENSION



## INSTALLATION

1. Install ④ onto ②.
2. Put ③ onto the copter arm.
3. Make the motor onto the bedframe securely by M3 screw to keep it working strong.

## BACK TO THE TOP

HD PICTURE&PACKAGE  
TEST REPORT-980KV

**980KV**

Item NO.	Volts (V)	Prop	Throttle	Amps (A)	Watts (W)	Thrust (G)	RPM	Efficiency (G/W)
<b>G-2212</b>	<b>11.1</b>	<b>E9*3 CF</b>	50%	2.5	27.75	270	6000	9.73
			65%	3.4	37.74	335	6600	8.88
			75%	4.2	46.62	400	7000	8.58
			85%	5.6	62.16	490	7800	7.88
			100%	6.8	73.26	585	8500	7.71
		<b>E10* 3.3C F</b>	50%	2.9	32.19	317	5300	9.85
			65%	4.3	47.73	432	5900	9.05
			75%	5.6	62.16	525	6600	8.45
			85%	7.2	79.92	636	7200	7.96
			100%	8.8	97.68	715	7650	7.32
	<b>14.8</b>	<b>E8*2 .7CF</b>	50%	2.9	42.92	345	8600	8.04
			65%	3.7	54.76	425	9200	7.76
			75%	4.4	65.12	475	9800	7.29
			85%	5.9	87.32	595	10800	6.81
			100%	6.9	102.12	680	11500	6.66
		<b>E9*3 CF</b>	50%	3.7	54.76	425	7500	7.76
			65%	5	74.00	540	8300	7.30
			75%	6.4	94.72	650	9000	6.86
			85%	8.7	128.76	800	10000	6.21
			100%	10.1	149.48	890	10500	5.95

**BACK TO THE TOP**

TEST REPORT-1250KV

1250KV								
Item NO.	Volts (V)	Prop	Throttle	Amps (A)	Watts (W)	Thrust (G)	RPM	Efficiency (G/W)
<b>G-2212</b>	<b>11.1</b>	<b>E8*2.7CF</b>	50%	3.0	32.08	260	7500	8.15
			65%	3.8	40.96	305	8000	7.64
			75%	4.3	44.55	330	8500	7.32
			85%	5.2	58.82	390	9200	6.96
			100%	6.5	68.99	450	1000	6.42
		<b>E9*3CF</b>	50%	3.8	38.95	310	6700	6.22
			65%	4.7	51.26	370	7500	6.95
			75%	5.9	64.58	425	8100	6.57
			85%	7.8	86.87	550	8700	6.12
			100%	9.1	100.23	620	9200	5.96
	<b>14.8</b>	<b>E8*2.7CF</b>	50%	4.1	58.20	360	9500	5.94
			65%	5.5	76.44	440	1050	5.55
			75%	6.1	90.76	480	1100	5.42
			85%	8.1	118.44	630	1200	5.12
			100%	9.5	143.32	750	1250	4.92
<b>E9*3CF</b>		50%	4.9	74.48	450	8000	5.96	
		65%	5.9	100.12	560	9000	5.48	
		75%	10.3	138.82	670	9800	5.35	
		85%	11.9	176.21	830	1050	4.64	
		100%	13.9	211.64	970	1150	4.44	

BACK TO THE TOP

TEST REPORT-1400KV

1400KV								
Item NO.	Volts (V)	Prop	Throttle	Amps (A)	Watts (W)	Thrust (G)	RPM	Efficiency (G/W)
<b>G-2212</b>	11.1	E7*2. 4CF	50%	3.8	42.18	280	8000	4.74
			65%	6.6	73.26	310	8500	4.10
			75%	9.4	104.34	360	9500	3.83
			85%	12.7	140.97	430	10200	3.54
			100%	15.8	177.62	570	11000	3.37
		E8*2. 7CF	50%	3.2	35.52	260	7500	5.63
			65%	5.4	59.94	310	8000	5.00
			75%	7.8	86.58	375	8700	4.62
			85%	10.4	115.44	455	9500	4.33
			100%	13.3	147.63	595	10000	5.
	14.8	E7*2. 4CF	50%	7	74.23	380	9800	4.05
			65%	7.1	112.48	460	10500	3.55
			75%	9.8	149.44	510	10900	3.34
			85%	12.2	195.36	660	11500	3.07
			100%	15.2	239.76	790	12500	2.91

BACK TO THE TOP

## TEST REPORT-2400KV

2400KV								
Item NO.	Volts (V)	Prop	Throttle	Amps (A)	Watts (W)	Thrust (G)	RPM	Efficiency (G/W)
<b>G-2212</b>	<b>11.1</b>	E7*2.4 CF	50%	7.2	79.22	340	8500	3.85
			65%	10.5	115.55	410	9100	3.43
			75%	14.2	157.42	470	9800	3.27
			85%	12.7	203.14	580	10500	2.95
			100%	18.3	247.65	690	11500	2.81

### NOTES

1. There're only 100 pcs Limited-Edition, each has its own unique SN.
2. We provide 2 years warranty (Free-repair & Free-replacement when it was naturally failing to work), any problem, you can contact with our "service" email or Tel: +86-755-2153 9034.
3. The motor can work more than 5,000 hours without 1.7-3.2% performance losing.
4. Don't touch the motor and keep a safe distance from it when it is working.
5. Only Waterproof-Edition can be working in the foul weather!
6. Please make sure that the motor is working with proper rotation (CW or CCW).
7. We strongly advise you to check the installation of the motor before you play your drones every time.
8. Choose a perfect matching prop & ESC will help you a pleasant flight experience (please refer the "details").

[BACK TO THE TOP](#)

CERTIFICATION



**BACK TO THE TOP**