

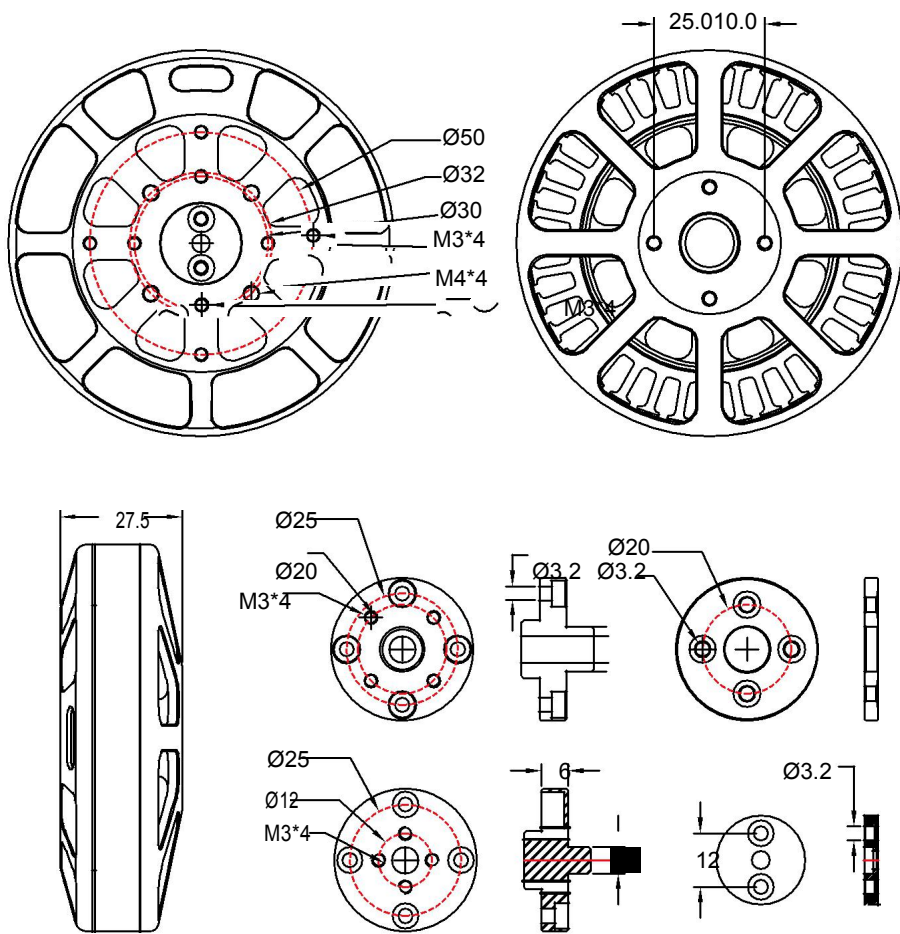
DE8108 100KV

DE8108 motors come in two concept sign versions. The ENTHUSIASTS EXTREME EDITION for extreme weight reduction while maintaining the highest possible performance. And the INDUSTRY PRO EDITION achieving water and dust proof protection together with compatibility of mounting possibilities for motor and propellers.

DE8108 100KV EEE

ENTHUSIASTS EXTREME EDITION

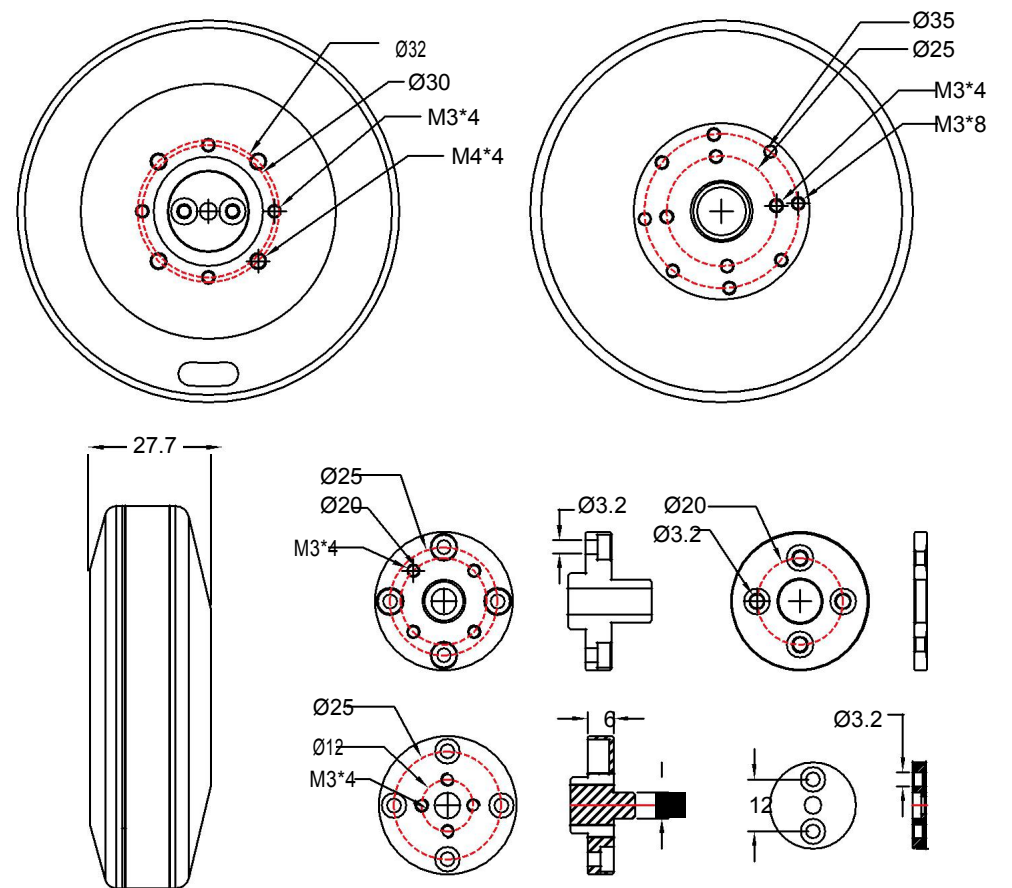
- Reduced motor weight
 - Open body sign for better passive heat dissipation
- Compatibility for propeller installation
- Motor mounting holes standarization
- Repairable
- Maximized performance
- Low power consumption • signed for 6S-12S voltage



DE8108 100KV IPE

INDUSTRY PROFESSIONAL EDITION

- Water and dust proof protection
- Closed motor casing
- Propeller installation adapters
- Motor mounting holes standarization
- Repairable
- Maximized performance
- Low power consumption
- Recommend 6S-8S voltage



SPECIFICATIONS

DE8108	EEE	
Configuration	36N42P	
RPM/V	100KV	
Stator Size	81 x 8 mm	
Motor Dimensions	86.8 x 27.5 mm	EEE
Shaft Diameter	OD: 15 mm, ID: 13 mm	
Continuous Power (60 mins)	350 W	
Maximum Power (60 secs)	750 W	
Maximum Current (60 secs)	24 A	
Idle Current at 16 V	0.7 A	
Internal Resistance	186 mΩ	
Heat Dissipation	Passive	EEE
Rotor Balanced	Yes	
Heavy Duty sign	No	EEE
gree of Protection	Rainproof	EEE
Motor Weight	250 g	EEE
Product Boxed Weight	525 g	EEE
Maximum Thrust	2000 g (6S) - 3300 g (12S)	
E ciency at 1500g Thrust	17.0 g/W	

DE8108	IPE	
Configuration	36N42P	
RPM/V	100KV	
Stator Size	81 x 8 mm	
Motor Dimensions	86.8 x 27.7 mm	IPE
Shaft Diameter	OD: 15 mm, ID: 13 mm	
Continuous Power (60 mins)	350 W	
Maximum Power (60 secs)	750 W	
Maximum Current (60 secs)	24 A	
Idle Current at 16 V	0.7 A	
Internal Resistance	186 mΩ	
Heat Dissipation	Passive	IPE
Rotor Balanced	Yes	
Heavy Duty sign	Yes	IPE
gree of Protection	IP35	IPE
Motor Weight	265 g	IPE
Product Boxed Weight	540 g	IPE
Maximum Thrust	2000 g (6S) - 3300 g (12S)	
E ciency at 1500g Thrust	17.0 g/W	

Propeller Mounting Holes	4 x M3 Ø25 mm, 8 x M3 Ø35 mm	
Motor Mounting Holes	4 x M3 Ø30 mm, 4 x M4 Ø32 mm	
Wire	Winding Extend 150 mm	
Propeller Adapter	2 pcs	EEE
Additional Accessories	3x Bullet Connector Set 3x Heat Shrink Tubes 2x M3 10mm 2x Carbon Prop Cover 1x DE Stickers 1x Black Foam with Hole - Stand for Big Cup	

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RECOMMENDATIONS

Propeller size	27" - 30"	6S
Propeller size	18" - 22"	12S

Takeo	Weight	700 - 1500 g/rotor	6S
Takeo	Weight	1300 - 2000 g/rotor	12S

Propeler Size	Voltage [V]	Throttle	Current [A]	Thrust [g]	RPM	Power [W]	Efficiency [g/W]	Torque [N*m]	Temperature [°C]
26x8.5	24	10%	0.6	370	890	14.4	25.7	0.15	EEE 25° IPE 30°
		20%	1.2	610	1127	28.8	21.2	0.24	
		30%	1.8	820	1312	43.2	19.0	0.31	
		40%	2.4	1030	1472	57.6	17.9	0.37	
		50%	3.0	1210	1600	72.0	16.8	0.43	
		60%	3.6	1340	1703	86.4	15.5	0.48	
		70%	4.2	1550	1807	100.8	15.4	0.53	
		80%	4.8	1710	1901	115.2	14.8	0.58	
		90%	5.4	1830	1972	129.6	14.1	0.63	
		100%	5.9	2030	2040	141.6	14.3	0.66	
27x8.8	24	10%	0.7	440	860	16.8	26.2	0.19	EEE 29° IPE 35°
		20%	1.4	700	1134	33.6	20.8	0.28	
		30%	2.1	990	1319	50.4	19.6	0.36	
		40%	2.8	1200	1472	67.2	17.9	0.44	
		50%	3.5	1370	1600	84.0	16.3	0.50	
		60%	4.2	1620	1716	100.8	16.1	0.56	
		70%	4.9	1800	1811	117.6	15.3	0.62	
		80%	5.6	1940	1885	134.4	14.4	0.68	
		90%	6.3	2050	1965	151.2	13.6	0.73	
		100%	6.7	2170	2010	160.8	13.5	0.76	
28x9.2	24	10%	0.8	440	885	19.2	22.9	0.21	EEE 32° IPE 38°
		20%	1.6	770	1118	38.4	20.1	0.33	
		30%	2.4	1040	1272	57.6	18.1	0.43	
		40%	3.2	1280	1417	76.8	16.7	0.52	
		50%	4.0	1510	1567	96.0	15.7	0.59	
		60%	4.8	1720	1640	115.2	14.9	0.67	
		70%	5.6	1910	1764	134.4	14.2	0.73	
		80%	6.4	2100	1848	153.6	13.7	0.79	
		90%	7.2	2290	1918	172.8	13.3	0.86	
		100%	7.7	2400	1966	184.8	13.0	0.90	
29x9.5	24	10%	0.8	450	790	19.2	23.4	0.23	EEE 34° IPE 41°
		20%	1.6	780	1040	38.4	20.3	0.35	
		30%	2.4	1040	1225	57.6	18.1	0.45	
		40%	3.2	1280	1341	76.8	16.7	0.55	
		50%	4.0	1500	1466	96.0	15.6	0.63	
		60%	4.8	1730	1590	115.2	15.0	0.69	
		70%	5.6	1910	1644	134.4	14.2	0.78	
		80%	6.4	2100	1750	153.6	13.7	0.84	
		90%	7.8	2250	1817	187.2	12.0	0.98	
		100%	8.0	2570	1900	192.0	13.4	0.97	
30*10.5	24	10%	1.0	560	790	24.0	23.3	0.29	EEE 37° IPE 44°
		20%	2.0	960	1040	48.0	20.0	0.44	
		30%	3.0	1310	1225	72.0	18.2	0.56	
		40%	4.0	1590	1341	96.0	16.6	0.68	
		50%	5.0	1840	1466	120.0	15.3	0.78	
		60%	6.0	2100	1590	144.0	14.6	0.86	
		70%	7.0	2330	1644	168.0	13.9	0.98	
		80%	8.0	2550	1750	192.0	13.3	1.05	

		90%	9.0	2750	1817	216.0	12.7	1.14	
		100%	10.0	2970	1900	240.0	12.4	1.21	
32x11.0	24	10%	1.2	670	790	28.8	23.3	0.35	EEE 39° IPE 46°
		20%	2.4	1080	1040	57.6	18.8	0.53	
		30%	3.6	1460	1225	86.4	16.9	0.67	
		40%	4.8	1800	1341	115.2	15.6	0.82	
		50%	6.0	2090	1466	144.0	14.5	0.94	
		60%	7.2	2370	1590	172.8	13.7	1.04	
		70%	8.4	2620	1644	201.6	13.0	1.17	
		80%	9.6	2880	1750	230.4	12.5	1.26	
		90%	10.8	3100	1817	259.2	12.0	1.36	
		100%	12.1	3350	1900	290.4	11.5	1.46	
34x11.5	24	10%	1.5	800	790	36.0	22.2	0.44	EEE 40° IPE 48°
		20%	3.0	1330	1040	72.0	18.5	0.66	
		30%	4.5	1830	1225	108.0	16.9	0.84	
		40%	6.0	2210	1341	144.0	15.3	1.03	
		50%	7.5	2520	1466	180.0	14.0	1.17	
		60%	9.0	2890	1590	216.0	13.4	1.30	
		70%	10.5	3250	1644	252.0	12.9	1.46	
		80%	12.0	3480	1750	288.0	12.1	1.57	
		90%	13.5	3740	1817	324.0	11.5	1.70	
		100%	14.4	3920	1900	345.6	11.3	1.74	
26x8.5	32	10%	0.9	830	1115	28.8	28.8	0.25	EEE 35° IPE 42°
		20%	1.8	1250	1474	57.6	21.7	0.37	
		30%	2.7	1540	1686	86.4	17.8	0.49	
		40%	3.6	1860	1873	115.2	16.1	0.59	
		50%	4.5	2060	2040	144.0	14.3	0.67	
		60%	5.4	2340	2175	172.8	13.5	0.76	
		70%	6.3	2560	2286	201.6	12.7	0.84	
		80%	7.2	2770	2406	230.4	12.0	0.91	
		90%	8.1	3090	2494	259.2	11.9	0.99	
		100%	9.0	3330	2603	288.0	11.6	1.06	
27x8.8	32	10%	1.0	660	1115	32.0	20.6	0.27	EEE 37° IPE 44°
		20%	2.0	1130	1474	64.0	17.7	0.41	
		30%	3.0	1560	1686	96.0	16.3	0.54	
		40%	4.0	1900	1873	128.0	14.8	0.65	
		50%	5.0	2210	2040	160.0	13.8	0.75	
		60%	6.0	2500	2175	192.0	13.0	0.84	
		70%	7.0	2670	2286	224.0	11.9	0.94	
		80%	8.0	2940	2406	256.0	11.5	1.02	
		90%	9.0	3200	2494	288.0	11.1	1.10	
		100%	10.4	3510	2603	332.8	10.5	1.22	
28x9.2	32	10%	1.2	740	1115	38.4	19.3	0.33	EEE 40° IPE 47°
		20%	2.4	1275	1474	76.8	16.6	0.50	
		30%	3.6	1710	1686	115.2	14.8	0.65	
		40%	4.8	2080	1873	153.6	13.5	0.78	
		50%	6.0	2440	2040	192.0	12.7	0.90	
		60%	7.2	2760	2175	230.4	12.0	1.01	
		70%	8.4	3100	2286	268.8	11.5	1.12	
		80%	9.6	3300	2406	307.2	10.7	1.22	
		90%	10.8	3500	2494	345.6	10.1	1.32	
		100%	12	3860	2603	384.0	10.1	1.41	
26*8.5	40	10%	1.3	910	1385	52.0	17.5	0.36	EEE 40° IPE 47°
		20%	2.6	1540	1812	104.0	14.8	0.55	
		30%	3.9	2060	2055	156.0	13.2	0.72	
		40%	5.2	2450	2319	208.0	11.8	0.86	
		50%	6.5	2790	2487	260.0	10.7	1.00	
		60%	7.8	3230	2658	312.0	10.4	1.12	
		70%	9.1	3590	2786	364.0	9.9	1.25	
		80%	10.4	3990	2988	416.0	9.6	1.33	
		90%	11.7	4315	3012	468.0	9.2	1.48	
		100%	13.1	4655	3127	524.0	8.9	1.60	
27*8.8	40	10%	1.5	1100	1385	60.0	18.3	0.41	EEE 45° IPE 53°
		20%	3	1720	1812	120.0	14.3	0.63	
		30%	4.5	2300	2055	180.0	12.8	0.84	
		40%	6	2780	2319	240.0	11.6	0.99	
		50%	7.5	3200	2487	300.0	10.7	1.15	
		60%	9	3660	2658	360.0	10.2	1.29	
		70%	10.5	4000	2786	420.0	9.5	1.44	
		80%	12	4520	2988	480.0	9.4	1.53	
		90%	13.5	4870	3012	540.0	9.0	1.71	
		100%	14.6	5170	3127	584.0	8.9	1.78	

28*9.2	40	10%	1.7	1150	1376	68.0	16.9	0.47	EEE 47° IPE 55°
		20%	3.4	1960	1863	136.0	14.4	0.70	
		30%	5.1	2450	2039	204.0	12.0	0.96	
		40%	6.8	3060	2216	272.0	11.3	1.17	
		50%	8.5	3590	2400	340.0	10.6	1.35	
		60%	10.2	4030	2523	408.0	9.9	1.54	
		70%	11.9	4460	2653	476.0	9.4	1.71	
		80%	13.6	4880	2766	544.0	9.0	1.88	
		90%	15.3	5250	2916	612.0	8.6	2.00	
		100%	16.8	5550	2990	672.0	8.3	2.15	
26*8.5	48	10%	1.7	1400	1606	81.6	17.2	0.49	EEE 43° IPE 51°
		20%	3.4	2205	2068	163.2	13.5	0.75	
		30%	5.1	2920	2424	244.8	11.9	0.96	
		40%	6.8	3410	2662	326.4	10.4	1.17	
		50%	8.5	3935	2865	408.0	9.6	1.36	
		60%	10.2	4330	3047	489.6	8.8	1.53	
		70%	11.9	4885	3194	571.2	8.6	1.71	
		80%	13.6	5370	3343	652.8	8.2	1.86	
		90%	15.3	5780	3465	734.4	7.9	2.02	
		100%	17.3	6410	3595	830.4	7.7	2.21	