MAD
COMPONENTS



MAD M6 150KV 280KV 400KV

MAD M6 motors come in two concept design versions. The ENTHUSIASTS EXTREME EDITION for extreme weight reduction while maintaining the highest possible performance. And the INDUSTRY PRO EDITION achieving water and dust protection together with compatibility of mounting possibilities for motor and propellers.

MAD M6 IPE CODE12

INDUSTRY PROFESSIONAL EDITION

- Water and dust proof IP35 degree of protection
- Internal fan for active heat dissipation
- Ultra durable bearings
- Propeller installation adapters
- Motor mounting holes standarization
- Reparable
- Maximized performance
- Low power consumption
- Designed for 6S-12S voltage

MAD M6 EEE CODE12 NOT AVAILABLE



SPECIFICATIONS

	IPE	IPE	IPE
Configuration	24N22P	24N22P	24N22P
RPM/V	160KV	280KV	400KV
Stator Size	64 x 12 mm	64 x 12 mm	64 x 12 mm
Motor Dimensions	72 x 25.5 mm	72 x 25.5 mm	72 x 25.5 mm
Internal Resistance	135 mΩ	40 mΩ	27 mΩ
Motor Weight	260g	250g	250g
Product Boxed Weight	365 g	355 g	355 g
Propeller Mounting Holes	4 x M3 Ø12 mm	4 x M3 Ø12 mm	4 x M3 Ø12 mm
Motor Mounting Holes	4 x M3 Ø25 mm 4 x M3 Ø30 mm	4 x M3 Ø25 mm 4 x M3 Ø30 mm	4 x M3 Ø25 mm 4 x M3 Ø30 mm
Wire	Winding Extended 150 mm	Winding Extended 150 mm	Winding Extended 150 mm
Heat Dissipation	Centrifugal Fan	Centrifugal Fan	Centrifugal Fan
Rotor Balanced	Yes	Yes	Yes
Heavy Duty Design	Yes	Yes	Yes
Degree of Protection	IP35	IP35	IP35
Maximum Thrust	8350 g (12S) - 22°	7185 g (6S) - 24°	6150 g (6S) - 20°
Efficiency at 4000g Thrust	7.62 g/W	8.5 g/W	6.0 g/W
Propeller Adapter	1pc	1pc	1pc
Additional Accessories	3x Bullet Connector Set 3x Heat Shrink Tubes 2x M3 10mm 2x Carbon Prop Cover 1x MAD Stickers 2x Black Foam with Hole Stand for Cup	3x Bullet Connector Set 3x Heat Shrink Tubes 2x M3 10mm 2x Carbon Prop Cover 1x MAD Stickers 2x Black Foam with Hole Stand for Cup	3x Bullet Connector Set 3x Heat Shrink Tubes 2x M3 10mm 2x Carbon Prop Cover 1x MAD Stickers 2x Black Foam with Hole Stand for Cup

RECOMMENDATIONS

MAD M6 CODE12	160KV		280KV		400KV	
Propeller size	17" - 22"	12S	18" - 24"	6S	15" - 20"	6S
Takeoff Weight	2700 - 5000 g/rotor	12S	2300 - 4000 g/rotor	6S	2000 - 4000 g/rotor	6S

MAD M6 KV160 12S

Propeler Size	Voltage (V)	Throttle	Current (A)	Thrust (g)	RPM	Power (W)	Efficiency (g/W)	Torque (N*m)	Temperature (˚C)
17*58	50	10%	1.5	840	3205	75	11.20	0.22	39˚C
		20%	3	1410	4139	150	9.40	0.35	
		30%	4.5	1900	4805	225	8.44	0.45	
		40%	6	2320	5331	300	7.73	0.54	
		50%	7.5	2710	5748	375	7.23	0.62	
		60%	9	3080	6121	450	6.84	0.70	
		70%	10.5	3410	6453	525	6.50	0.78	
		80%	12	3750	6750	600	6.25	0.85	
		90%	13.5	4110	7014	675	6.09	0.92	
		100%	15	4420	7259	750	5.89	0.99	
18*61	50	10%	2	1090	3234	100	10.90	0.30	43˚C
		20%	4	1840	4173	200	9.20	0.46	
		30%	6	2450	4822	300	8.17	0.59	
		40%	8	3020	5322	400	7.55	0.72	
		50%	10	3480	5726	500	6.96	0.83	
		60%	12	3940	6082	600	6.57	0.94	
		70%	14	4350	6387	700	6.21	1.05	
		80%	16	4780	6698	800	5.98	1.14	
		90%	18	5170	6953	900	5.74	1.24	
		100%	19	5320	7032	950	5.60	1.29	
20*60	50	10%	2.3	1240	3104	115	10.78	0.35	51˚C
		20%	4.6	2070	3991	230	9.00	0.55	
		30%	6.9	2750	4602	345	7.97	0.72	
		40%	9.2	3350	5050	460	7.28	0.87	
		50%	11.5	3900	5490	575	6.78	1.00	
		60%	13.8	4410	5778	690	6.39	1.14	
		70%	16.1	4910	6072	805	6.10	1.27	
		80%	18.4	5310	6326	920	5.77	1.39	
		90%	20.7	5760	6570	1035	5.57	1.50	
		100%	23	6160	6760	1150	5.36	1.62	
22*66	50	10%	3.5	1860	2973	175	10.63	0.56	69˚C
		20%	7	3020	3720	350	8.63	0.90	
		30%	10.5	4000	4230	525	7.62	1.19	
		40%	14	4810	4619	700	6.87	1.45	
		50%	17.5	5510	4939	875	6.30	1.69	
		60%	21	6120	5206	1050	5.83	1.93	
		70%	24.5	6610	5466	1225	5.40	2.14	
		80%	28	7050	5842	1400	5.04	2.29	
		90%	31.5	7730	6015	1575	4.91	2.50	
		100%	35	8350	6180	1750	4.77	2.70	

MAD M6 KV280 6S

Propeler Size	Voltage (V)	Throttle	Current (A)	Thrust (g)	RPM	Power (W)	Efficiency (g/W)	Torque (N*m)	Temperature (˚C)
18*61	24	10%	2.2	655	2518	52.8	12.41	0.20	39˚C
		20%	4.4	1150	3297	105.6	10.89	0.31	
		30%	6.6	1590	3833	158.4	10.04	0.39	
		40%	8.8	1980	4274	211.2	9.38	0.47	
		50%	11	2290	4619	264	8.67	0.55	
		60%	13.2	2600	4927	316.8	8.21	0.61	
		70%	15.4	1900	5155	369.6	5.14	0.68	
		80%	17.6	3155	5387	422.4	7.47	0.75	
		90%	19.8	3390	5627	475.2	7.13	0.81	
		100%	21.8	3630	5788	523.2	6.94	0.86	
20*60	24	10%	2.8	865	2471	67.2	12.87	0.26	44˚C
		20%	5.6	1470	3192	134.4	10.94	0.40	
		30%	8.4	1980	3709	201.6	9.82	0.52	
		40%	11.2	2445	4098	268.8	9.10	0.63	
		50%	14	2825	4420	336	8.41	0.73	
		60%	16.8	3200	4685	403.2	7.94	0.82	
		70%	19.6	3520	4930	470.4	7.48	0.91	
		80%	22.4	3865	5138	537.6	7.19	1.00	
		90%	25.2	4160	5329	604.8	6.88	1.08	
		100%	28.1	4530	5509	674.4	6.72	1.17	
22*66	24	10%	3.8	1250	2392	91.2	13.71	0.36	55˚C
		20%	7.6	1975	3019	182.4	10.83	0.58	
		30%	11.4	2610	3440	273.6	9.54	0.76	
		40%	15.2	3220	3797	364.8	8.83	0.92	
		50%	19	3600	4070	456	7.89	1.07	
		60%	22.8	4105	4289	547.2	7.50	1.22	
		70%	26.6	4500	4476	638.4	7.05	1.36	
		80%	30.4	4870	4696	729.6	6.67	1.48	
		90%	34.2	5300	4849	820.8	6.46	1.62	
		100%	38.2	5700	5000	916.8	6.22	1.75	
JXF24	24	10%	5.6	1710	2161	134.4	12.72	0.59	68˚C
		20%	11.2	2720	2716	268.8	10.12	0.95	
		30%	16.8	3510	3076	403.2	8.71	1.25	
		40%	22.4	4370	3345	537.6	8.13	1.53	
		50%	28	4930	3585	672	7.34	1.79	
		60%	33.6	5370	3775	806.4	6.66	2.04	
		70%	39.2	5860	3911	940.8	6.23	2.30	
		80%	44.8	6220	4068	1075.2	5.78	2.52	
		90%	50.4	6690	4164	1209.6	5.53	2.77	
		100%	56	7185	4234	1344	5.35	3.03	

MAD M6 KV400 6S

Propeler Size	Voltage (V)	Throttle	Current (A)	Thrust (g)	RPM	Power (W)	Efficiency (g/W)	Torque (N*m)	Temperature (˚C)
15*50	24	10%	2.5	575	3500	60	9.58	0.16	40˚C
		20%	5	1030	4608	120	8.58	0.25	
		30%	7.5	1410	5380	180	7.83	0.32	
		40%	10	1730	5947	240	7.21	0.39	
		50%	12.5	2050	6439	300	6.83	0.44	
		60%	15	2295	6842	360	6.38	0.50	
		70%	17.5	2530	7198	420	6.02	0.56	
		80%	20	2840	7551	480	5.92	0.61	
		90%	22.5	3065	7889	540	5.68	0.65	
		100%	25.3	3350	8150	607.2	5.52	0.71	
16*54	24	10%	3.2	720	3517	76.8	9.38	0.21	44˚C
		20%	6.4	1250	4542	153.6	8.14	0.32	
		30%	9.6	1700	5288	230.4	7.38	0.42	
		40%	12.8	2085	5829	307.2	6.79	0.50	
		50%	16	2495	6311	384	6.50	0.58	
		60%	19.2	2760	6681	460.8	5.99	0.66	
		70%	22.4	3190	7056	537.6	5.93	0.73	
		80%	25.6	3470	7372	614.4	5.65	0.80	
		90%	28.8	3720	7664	691.2	5.38	0.86	
		100%	31.5	4070	7863	756	5.38	0.92	
17*58	24	10%	4	970	3409	96	10.10	0.27	49˚C
		20%	8	1620	4449	192	8.44	0.41	
		30%	12	2150	5119	288	7.47	0.54	
		40%	16	2680	5668	384	6.98	0.65	
		50%	20	3130	6113	480	6.52	0.75	
		60%	24	3500	6471	576	6.08	0.85	
		70%	28	3865	6768	672	5.75	0.95	
		80%	32	4180	7065	768	5.44	1.04	
		90%	36	4550	7271	864	5.27	1.13	
		100%	38.5	4780	7465	924	5.17	1.18	
18*61	24	10%	4.6	1110	3320	110.4	10.05	0.32	55˚C
		20%	9.2	1840	4277	220.8	8.33	0.49	
		30%	13.8	2465	4927	331.2	7.44	0.64	
		40%	18.4	3020	5421	441.6	6.84	0.78	
		50%	23.9	3510	5820	573.6	6.12	0.94	
		60%	27.6	3945	6146	662.4	5.96	1.03	
		70%	32.2	4320	6437	772.8	5.63	1.15	
		80%	36.8	4730	6722	883.2	5.36	1.25	
		90%	41.4	5090	6945	993.6	5.12	1.37	
		100%	45.2	5530	7168	1084.8	5.10	1.45	
20*60	24	10%	5.4	1295	3209	129.6	9.99	0.39	59˚C
		20%	10.8	2180	4099	259.2	8.41	0.60	
		30%	16.2	2820	4695	388.8	7.25	0.79	
		40%	21.6	3490	5137	518.4	6.73	0.96	
		50%	27	3960	5558	648	6.11	1.11	
		60%	32.4	4475	5864	777.6	5.75	1.27	
		70%	37.8	4890	6127	907.2	5.39	1.41	
		80%	43.2	5340	6387	1036.8	5.15	1.55	
		90%	48.6	5700	6500	1166.4	4.89	1.71	
		100%	53.4	6150	6788	1281.6	4.80	1.80	