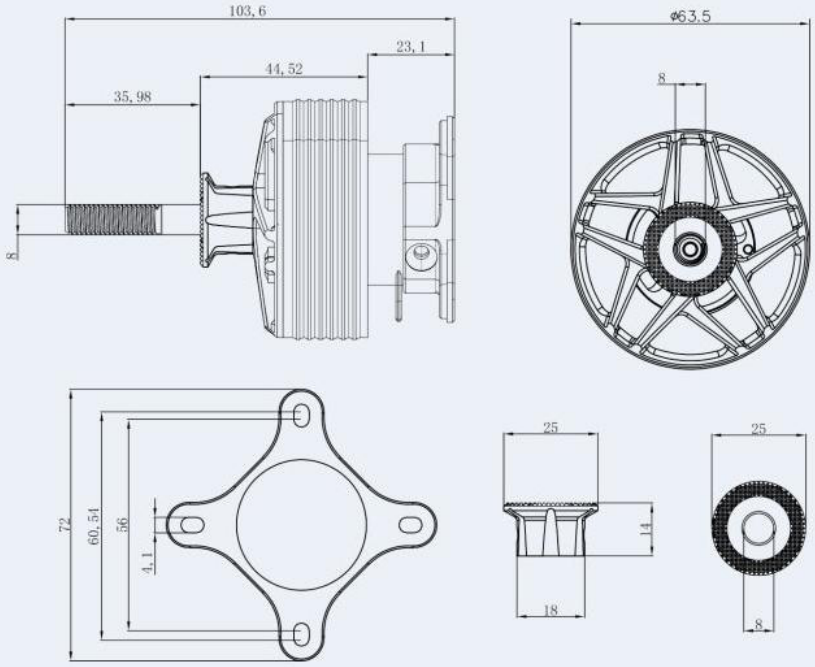
T-Motor AM 670 Technische Daten

AM670 RECOMMENDATIONS

AM670	480kv	520kv
Cruising power:	807W/4417g	983W/5013g
High power:	2380W/9348g	2773W/10132g
Recommended ESC:	AM 116A	AM 116A
Recommend propeller:	17*8 for Light weight	17*8 for Light weight
	18*8 for high efficiency	18*8 for high efficiency
	18*10 for extreme flight	18*10 for extreme flight
Weight of Scale/UAV:	25-28kg	28-31kg
Weight of 3D/ Sports airplane:	4.2-5kg	4.8-5.2kg
Application for 3D/ Sport airplane:	67”-70”/90E-110E	

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Product Drawing



Specifications

Test Item	KV480	Weight (Incl. Cable)	416.1g
Motor Dimensions	Φ63.5*103.6	Internal Resistance	12mΩ
Lead	Enameled Wire*110mm	Configuration	24N20P
Shaft Diameter	IN:8 OUT:8	Recomended battery/voltage	6S
Idle Current(10V)	3.5A	Peak Current(180s)	110A
Max. Power(180s)	2700W	Recomended ESC/Propeller	AM116A/18*10

Test Item	KV520	Weight (Incl. Cable)	416.3g
Motor Dimensions	Φ63.5*103.6	Internal Resistance	10mΩ
Lead	Enameled Wire*110mm	Configuration	24N20P
Shaft Diameter	IN:8 OUT:8	Recomended battery/voltage	6S
Idle Current(10V)	4.2A	Peak Current(180s)	130A
Max. Power(180s)	3200W	Recomended ESC/Propeller	AM116A/18*8

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Test Report										
Type	Propeller	Throttle	Voltage (V)	Current (A)	Power (W)	RPM	Torque (N*m)	Thrust (g)	Efficiency (g/W)	Operating Temperature (℃)
AM670 KV480	18*8	40%	23.85	10.85	258.78	4008	0.411	1909	7.38	/
		45%	23.78	13.90	330.62	4414	0.499	2322	7.02	
		50%	23.69	18.05	427.49	4860	0.609	2830	6.62	
		55%	23.58	22.88	539.41	5296	0.728	3388	6.28	
		60%	23.46	28.18	661.03	5700	0.848	3939	5.96	
		65%	23.32	34.40	802.29	6108	0.977	4534	5.65	
		70%	23.17	41.32	957.22	6489	1.112	5161	5.39	
		75%	22.99	49.26	1132.43	6859	1.258	5834	5.15	
		80%	22.80	57.78	1317.56	7207	1.401	6516	4.95	
		85%	22.58	68.04	1536.18	7577	1.563	7235	4.71	
		90%	22.35	78.25	1748.97	7887	1.715	7921	4.53	
		100%	22.03	92.60	2039.95	8263	1.903	8733	4.28	
	18*10	40%	23.81	12.46	296.78	3835	0.501	2068	6.97	/
		45%	23.72	16.51	391.56	4270	0.623	2574	6.57	
		50%	23.60	21.61	510.10	4713	0.762	3147	6.17	
		55%	23.46	27.86	653.79	5140	0.919	3793	5.80	
		60%	23.31	34.62	807.02	5522	1.073	4418	5.47	
		65%	23.15	42.01	972.38	5894	1.232	5076	5.22	
		70%	22.96	50.26	1154.08	6249	1.387	5707	4.95	
		75%	22.76	59.69	1358.36	6596	1.559	6408	4.72	
		80%	22.53	69.91	1575.19	6930	1.725	7061	4.48	
		85%	22.31	80.31	1791.35	7219	1.887	7728	4.31	
		90%	22.02	93.21	2052.68	7520	2.065	8464	4.12	
		100%	21.65	109.93	2380.06	7858	2.289	9349	3.93	

Note: Motor temperature is motor surface temperature @100% throttle running 10mins.
(Date above based on benchtest are for reference only, comparion with that of other motor types is not recommended.)

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Type	Propeller	Throttle	Voltage (V)	Current (A)	Power (W)	RPM	Torque (N*m)	Thrust (g)	Efficiency (g/W)	Operating Temperature (℃)
AM670 KV520	18*8	40%	23.58	13.44	316.98	4303	0.471	2183	6.89	/
		45%	23.52	17.20	404.44	4728	0.569	2649	6.55	
		50%	23.40	22.11	517.21	5182	0.689	3212	6.21	
		55%	23.29	27.79	647.05	5618	0.816	3802	5.88	
		60%	23.16	34.44	797.57	6043	0.954	4433	5.56	
		65%	23.01	41.91	964.42	6456	1.101	5110	5.30	
		70%	22.84	50.41	1151.29	6860	1.256	5823	5.06	
		75%	22.64	59.79	1353.52	7236	1.405	6534	4.83	
		80%	22.41	71.29	1597.29	7633	1.589	7361	4.61	
		85%	22.13	83.74	1852.97	8001	1.762	8137	4.39	
		90%	21.88	95.82	2096.23	8314	1.916	8822	4.21	
		100%	21.55	111.11	2394.77	8636	2.097	9617	4.02	
	18*10	40%	23.63	15.75	372.12	4124	0.591	2440	6.56	/
		45%	23.49	21.07	495.03	4599	0.735	3032	6.13	
		50%	23.35	27.43	640.54	5060	0.889	3666	5.72	
		55%	23.21	34.50	800.90	5481	1.046	4309	5.38	
		60%	23.04	42.66	983.03	5872	1.217	5014	5.10	
		65%	22.86	51.69	1181.44	6253	1.392	5728	4.85	
		70%	22.63	62.12	1405.87	6618	1.576	6462	4.60	
		75%	22.39	73.44	1644.20	6961	1.757	7199	4.38	
		80%	22.14	85.44	1891.43	7276	1.932	7907	4.18	
		85%	21.83	99.60	2174.43	7585	2.124	8649	3.98	
		90%	21.52	113.60	2444.89	7854	2.297	9357	3.83	
		100%	21.14	131.23	2773.70	8138	2.503	10132	3.65	

Note: Motor temperature is motor surface temperature @100% throttle running 10mins.
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