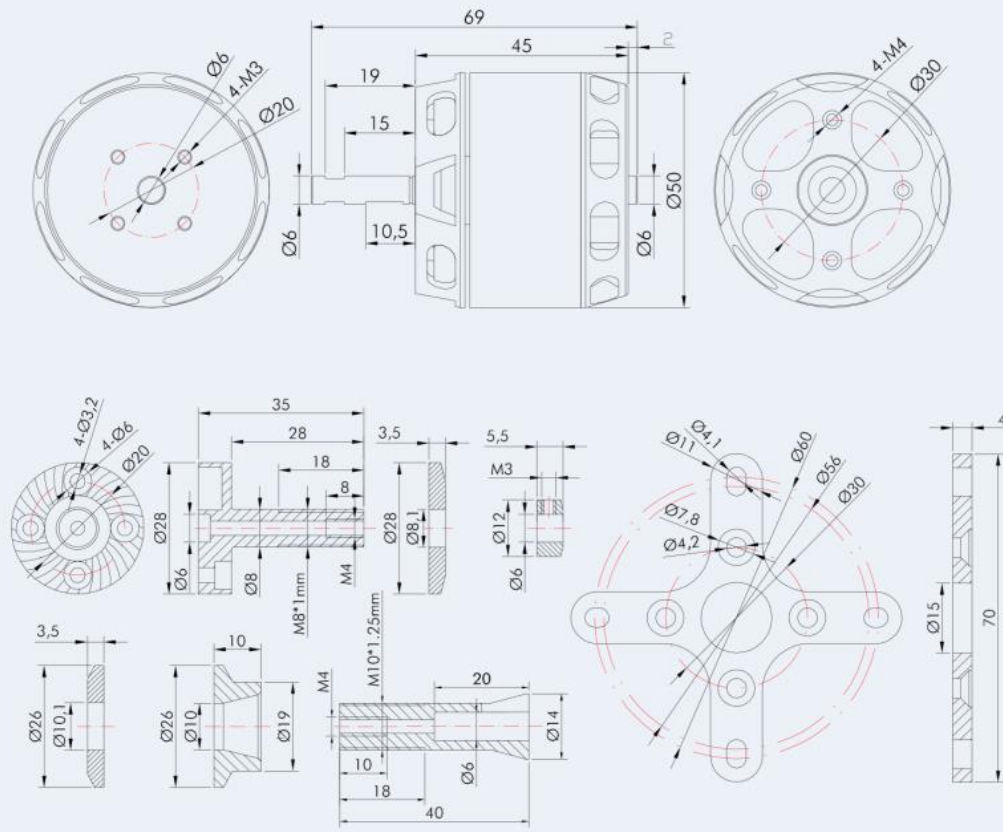


T-Motor AT4120

Product Drawing



Specifications

Test Item	Long Shaft KV250	Weight (Incl. Cable)	304g
Motor Dimensions	Φ50*69mm	Internal Resistance	76mΩ
Lead	Enameled Wire 100mm	Configuration	12N14P
Shaft Diameter	IN : 6mm OUT : 6mm	Rated Voltage(Lipo)	12S
Idle Current(10V)	1.0A	Peak Current(180s)	45A
Max. Power(180s)	2100W	Recommendation	/
Test Item	Long Shaft KV500	Weight (Incl. Cable)	305g
Motor Dimensions	Φ50*69mm	Internal Resistance	21mΩ
Lead	Enameled Wire 100mm	Configuration	12N14P
Shaft Diameter	IN : 6mm OUT : 6mm	Rated Voltage(Lipo)	6S
Idle Current(10V)	2.0A	Peak Current(180s)	75A
Max. Power(180s)	1700W	Recommendation	/
Test Item	Long Shaft KV560	Weight (Incl. Cable)	300g
Motor Dimensions	Φ50*69mm	Internal Resistance	16mΩ
Lead	Enameled Wire 100mm	Configuration	12N14P
Shaft Diameter	IN : 6mm OUT : 6mm	Rated Voltage(Lipo)	6S
Idle Current(10V)	2.4A	Peak Current(180s)	80A
Max. Power(180s)	1800W	Recommendation	/

Test Report

Type	Propeller	Throttle	Voltage (V)	Current (A)	Power (W)	RPM	Torque (N*m)	Thrust (g)	Efficiency (g/W)	Operating Temperature (°C)		
AT4120 Long Shaft KV250	APC 15*8	40%	44.32	2.70	119.63	3880	0.203	1012	8.46	65 (Ambient Temperature:)		
		45%	44.33	3.30	146.11	4287	0.248	1235	8.45			
		50%	44.30	4.56	201.83	4838	0.319	1574	7.80			
		55%	44.25	6.75	298.59	5422	0.411	2014	6.75			
		60%	44.23	8.19	362.23	5832	0.478	2331	6.43			
		65%	44.21	9.84	434.86	6243	0.558	2712	6.24			
		70%	44.14	12.69	560.11	6716	0.653	3146	5.62			
		75%	44.10	15.43	680.25	7132	0.749	3586	5.27			
		80%	44.04	18.63	820.64	7565	0.857	4067	4.96			
		90%	43.91	26.06	1144.20	8288	1.071	4934	4.31			
	100%	43.73	36.52	1596.93	8963	1.347	5504	3.45				
	AT4120 Long Shaft KV250	APC 15*10	40%	44.30	3.05	135.07	3828	0.249	1104	8.18	87 (Ambient Temperature:)	
			45%	44.28	3.86	171.08	4205	0.300	1321	7.72		
			50%	44.26	5.15	228.12	4716	0.375	1662	7.29		
			55%	44.21	7.77	343.40	5317	0.492	2168	6.31		
			60%	44.18	9.61	424.73	5713	0.565	2476	5.83		
			65%	44.14	11.97	528.31	6154	0.671	2914	5.52		
			70%	44.08	15.06	663.58	6565	0.775	3355	5.06		
			75%	44.03	17.80	783.72	6953	0.879	3771	4.81		
			80%	43.96	21.72	954.68	7363	0.997	4240	4.44		
			90%	43.80	30.96	1355.90	8012	1.276	4731	3.49		
		100%	43.61	42.30	1844.49	8618	1.545	5609	3.04			
		AT4120 Long Shaft KV250	APC 16*8	40%	44.37	3.25	144.09	3937	0.257	1253	8.70	HOT (Ambient Temperature:)
				45%	44.37	3.99	177.09	4278	0.304	1485	8.39	
				50%	44.33	5.53	245.37	4824	0.389	1899	7.74	
				55%	44.29	7.96	352.38	5389	0.498	2422	6.87	
				60%	44.25	10.12	447.90	5810	0.590	2850	6.36	
				65%	44.19	12.62	557.80	6195	0.688	3302	5.92	
				70%	44.14	15.97	704.96	6652	0.808	3852	5.46	
				75%	44.07	19.57	862.44	7052	0.931	4379	5.08	
80%				44.00	24.05	1058.23	7485	1.077	5016	4.74		
90%				43.85	32.70	1433.96	8112	1.301	5952	4.15		
100%			43.63	45.73	1995.20	8676	1.603	6717	3.37			

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

Type	Propeller	Throttle	Voltage (V)	Current (A)	Power (W)	RPM	Torque (N*m)	Thrust (g)	Efficiency (g/W)	Operating Temperature (°C)		
AT4120 Long Shaft KV500	APC 15*8	40%	22.47	6.81	153.13	4252	0.252	1222	7.98	79 (Ambient Temperature:)		
		45%	22.44	8.40	188.45	4603	0.291	1420	7.53			
		50%	22.41	10.07	225.68	4901	0.330	1603	7.10			
		55%	22.37	12.34	276.12	5255	0.385	1867	6.76			
		60%	22.32	15.19	339.14	5637	0.448	2174	6.41			
		65%	22.27	18.63	414.72	6030	0.525	2533	6.11			
		70%	22.19	22.75	504.91	6441	0.600	2878	5.70			
		75%	22.12	27.01	597.54	6817	0.675	3229	5.40			
		80%	22.05	31.62	697.07	7153	0.755	3583	5.14			
		90%	21.86	42.70	933.28	7805	0.929	4351	4.66			
	100%	21.75	49.31	1072.47	8135	1.020	4714	4.40				
	AT4120 Long Shaft KV500	APC 15*10	40%	22.49	5.40	121.44	3680	0.236	1027	8.46	HOT (Ambient Temperature:)	
			45%	22.46	7.19	161.62	4097	0.294	1281	7.93		
			50%	22.36	12.00	268.25	4688	0.393	1701	6.34		
			55%	22.32	15.15	338.13	5176	0.464	2020	5.97		
			60%	22.25	18.98	422.43	5573	0.545	2371	5.61		
			65%	22.19	22.88	507.71	5914	0.623	2700	5.32		
			70%	22.12	27.55	609.35	6288	0.710	3052	5.01		
			75%	22.01	33.85	744.87	6687	0.803	3434	4.61		
			80%	21.90	40.20	880.50	7030	0.900	3815	4.33		
			90%	21.65	55.07	1192.32	7555	1.111	4324	3.63		
		100%	21.40	70.41	1506.65	7952	1.301	4670	3.10			
		AT4120 Long Shaft KV500	APC 16*8	40%	22.44	8.73	195.81	4294	0.314	1518	7.75	98 (Ambient Temperature:)
				45%	22.40	10.71	240.02	4636	0.364	1765	7.35	
				50%	22.35	13.87	309.84	5071	0.440	2123	6.85	
				55%	22.28	17.61	392.29	5499	0.528	2550	6.50	
				60%	22.21	22.03	489.30	5927	0.622	2979	6.09	
				65%	22.12	27.16	600.86	6334	0.719	3427	5.70	
				70%	22.03	32.72	720.93	6715	0.824	3885	5.39	
				75%	21.94	38.56	845.96	7075	0.922	4305	5.09	
80%				21.82	45.23	986.96	7405	1.024	4742	4.80		
90%				21.54	62.33	1342.79	8035	1.270	5801	4.32		
100%			21.49	65.44	1406.23	8108	1.318	5967	4.24			

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

Continued below

Type	Propeller	Throttle	Voltage (V)	Current (A)	Power (W)	RPM	Torque (N*m)	Thrust (g)	Efficiency (g/W)	Operating Temperature (°C)
AT4120 Long Shaft KV560	APC 14*7	40%	22.44	9.30	208.82	5285	0.272	1421	6.81	79 (Ambient Temperature:/)
		45%	22.41	11.47	256.93	5704	0.323	1667	6.49	
		50%	22.38	13.30	297.53	6011	0.357	1832	6.16	
		55%	22.33	15.78	352.36	6365	0.408	2087	5.92	
		60%	22.28	18.84	419.77	6759	0.468	2374	5.66	
		65%	22.22	22.57	501.53	7242	0.531	2676	5.34	
		70%	22.15	27.13	600.92	7678	0.610	3049	5.07	
		75%	22.07	31.63	698.14	8054	0.684	3395	4.86	
		80%	21.97	37.50	823.81	8465	0.776	3779	4.59	
		90%	21.72	52.46	1139.49	9286	0.977	4616	4.05	
	100%	21.61	59.47	1284.98	9581	1.065	4909	3.82		
	APC 15*8	40%	22.43	9.90	222.15	4796	0.320	1562	7.03	98 (Ambient Temperature:/)
		45%	22.40	12.15	272.15	5152	0.374	1829	6.72	
		50%	22.34	15.29	341.66	5582	0.445	2168	6.34	
		55%	22.27	19.32	430.25	6049	0.528	2558	5.95	
		60%	22.20	23.78	527.88	6475	0.612	2951	5.59	
		65%	22.11	29.15	644.45	6934	0.709	3384	5.25	
		70%	22.01	35.31	777.07	7358	0.806	3828	4.93	
		75%	21.89	42.25	924.78	7731	0.916	4314	4.66	
		80%	21.79	48.35	1053.45	8046	1.008	4707	4.47	
90%		21.49	66.59	1431.12	8689	1.253	5311	3.71		
100%	21.32	76.78	1637.32	8979	1.376	5580	3.41			

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

Contents



Motor×1

Parts Bag×1

(AT41Series V2.0-Aluminum Washerφ8.1*20*2.5mm*1,Prop adapter φ 28*35mm-M8*1, Washer (Non-slip design)28*8.1*3.5mm *1,M8 Nut*2,Cup-head set screwM3*8mm*4, C-Clipsφ12*6*5.5mm*1,Hexagon set screwM3*4mm*1, Cross style motor mount70*30*4MM*1, Mount screwsM4*8mm*4)

Please check that your package contains all the above items before use, If something is missing, please contact online customer service or leave message to onlinesales@rctigermotor.com