

# IV7 (IV7215)

Test Data									
Type	Voltage (V)	Throttle	Current (A)	Thrust (gf)	Torque (N·m)	Speed (RPM)	Power (W)	Efficiency (gf/W)	Operating Temperature (°C)
IV7 (IV7215) KV170 + 14S FOC IV150A + 22*10	48	30%	2.13	1005	0.34	2151	103	9.78	52 (Ambient Temperature: 25)
		35%	3.18	1439	0.46	2525	154	9.37	
		40%	4.59	1978	0.61	2897	221	8.94	
		45%	6.38	2562	0.77	3269	308	8.33	
		50%	8.64	3248	0.98	3637	416	7.80	
		55%	11.34	4015	1.18	4010	547	7.34	
		60%	14.89	4867	1.41	4376	718	6.78	
		65%	18.98	5809	1.67	4744	915	6.35	
		70%	23.82	6833	1.97	5108	1148	5.95	
		75%	29.41	7899	2.26	5474	1417	5.58	
		80%	35.86	8957	2.56	5840	1727	5.19	
		85%	43.58	10185	2.89	6215	2098	4.86	
		90%	53.52	11645	3.30	6605	2575	4.52	
		95%	74.03	13984	3.67	7160	3559	3.93	
100%	79.02	14667	4.16	7343	3795	3.87			
IV7 (IV7215) KV170 + 14S FOC IV150A + 19*12	60	30%	2.08	1072	0.36	2530	124	8.63	54 (Ambient Temperature: 25)
		35%	3.13	1523	0.49	2967	187	8.15	
		40%	4.52	2050	0.66	3410	270	7.60	
		45%	6.28	2643	0.83	3853	375	7.05	
		50%	8.48	3319	1.01	4293	506	6.57	
		55%	11.15	4090	1.21	4732	665	6.15	
		60%	14.50	4932	1.46	5169	864	5.71	
		65%	18.31	5823	1.72	5611	1091	5.34	
		70%	23.01	6783	1.99	6053	1372	4.95	
		75%	28.43	7819	2.28	6485	1694	4.62	
		80%	34.93	8958	2.61	6924	2082	4.30	
		85%	42.75	10196	2.97	7372	2547	4.00	
		90%	55.49	10382	3.62	7816	3305	3.14	
		95%	70.15	11700	4.20	8339	4175	2.80	
100%	83.12	12631	4.62	8707	4945	2.55			
IV7 (IV7215) KV170 + 14S FOC IV150A + 20*10	60	30%	2.21	1174	0.37	2530	133	8.84	64 (Ambient Temperature: 25)
		35%	3.30	1691	0.51	2969	199	8.51	
		40%	4.77	2268	0.66	3412	287	7.90	
		45%	6.62	2932	0.84	3854	398	7.36	
		50%	9.01	3698	1.06	4301	542	6.83	
		55%	12.01	4513	1.28	4744	722	6.25	
		60%	15.56	5427	1.57	5182	936	5.80	
		65%	19.91	6486	1.82	5619	1197	5.42	
		70%	25.04	7626	2.13	6053	1505	5.07	
		75%	31.16	8817	2.46	6498	1873	4.71	
		80%	38.39	10122	2.87	6931	2307	4.39	
		85%	47.53	11583	3.28	7389	2856	4.06	
		90%	59.38	13275	3.79	7872	3567	3.72	
		95%	67.94	14347	4.10	8148	4078	3.52	
100%	68.03	14318	4.13	8160	4085	3.51			

Note: Motor temperature is the motor surface temperature at 100% throttle running 3min.  
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Test Data									
Type	Voltage (V)	Throttle	Current (A)	Thrust (gf)	Torque (N·m)	Speed (RPM)	Power (W)	Efficiency (gf/W)	Operating Temperature (°C)
IV7 (IV7215) KV200 + 14S FOC IV150A + 19*12	48	30%	3.85	1498	0.47	2521	185	8.11	64 (Ambient Temperature: 25)
		35%	5.50	2060	0.62	2925	264	7.82	
		40%	7.65	2721	0.81	3337	367	7.42	
		45%	10.46	3499	1.03	3765	501	6.98	
		50%	14.07	4441	1.27	4196	675	6.58	
		55%	18.39	5437	1.56	4627	881	6.17	
		60%	23.88	6594	1.88	5054	1144	5.76	
		65%	30.28	7796	2.21	5481	1451	5.37	
		70%	37.89	9151	2.56	5907	1815	5.04	
		75%	47.24	10678	3.01	6338	2263	4.72	
		80%	58.51	12321	3.47	6769	2801	4.40	
		85%	72.21	14094	3.96	7210	3456	4.08	
		90%	88.66	16547	4.57	7696	4239	3.90	
		95%	122.18	17393	5.63	8217	5832	2.98	
100%	121.67	17379	5.61	8203	5808	2.99			
IV7 (IV7215) KV200 + 14S FOC IV150A + 20*10	48	30%	2.69	1087	0.36	2482	130	8.35	62 (Ambient Temperature: 25)
		35%	4.01	1565	0.48	2917	194	8.06	
		40%	5.78	2159	0.64	3358	280	7.71	
		45%	8.07	2798	0.81	3799	391	7.16	
		50%	10.88	3496	1.00	4236	527	6.64	
		55%	14.50	4318	1.25	4672	702	6.15	
		60%	18.72	5200	1.50	5107	906	5.74	
		65%	23.86	6197	1.74	5536	1154	5.37	
		70%	29.99	7250	2.02	5967	1451	5.00	
		75%	37.31	8439	2.33	6396	1804	4.68	
		80%	46.11	9692	2.79	6833	2230	4.35	
		85%	56.96	11082	3.20	7271	2752	4.03	
		90%	70.47	12610	3.62	7734	3403	3.71	
		95%	87.31	14237	4.11	8178	4211	3.38	
100%	87.33	14224	4.10	8175	4215	3.38			

Note: Motor temperature is the motor surface temperature at 100% throttle running 3min.  
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## Packing List



IV7 (IV7215)\*1



Parts Bag\*1