



Specification

KV	280	Configuration	12N14P
Internal Resistance	71mΩ	Motor Dimensions	Φ60.7×39.5mm
Shaft Diameter	6mm	Cable Length	750mm
AWG	16#	Weight Excluding Cables	255g
Weight Including Cables	317g	Idle Current@10v	0.5A
No.of Cells (Lipo)	3-8S	Max Continuous Current 180S	35A
Max Continuous Power 180S	800W		
KV	420	Configuration	12N14P
Internal Resistance	33mΩ	Motor Dimensions	Φ60.7×39.5mm
Shaft Diameter	6mm	Cable Length	750mm
AWG	16#	Weight Excluding Cables	255g

Weight Including Cables	296g	Idle Current@10v	0.9A
No.of Cells (Lipo)	3-8S	Max Continuous Current 180S	40A
Max Continuous Power 180S	1180W		
KV	490	Configuration	12N14P
Internal Resistance	21mΩ	Motor Dimensions	Φ60.7×39.5mm
Shaft Diameter	6mm	Cable Length	750mm
AWG	16#	Weight Excluding Cables	258g
Weight Including Cables	299g	Idle Current@10v	1.1A
No.of Cells (Lipo)	3-8S	Max Continuous Current 180S	44A
Max Continuous Power 180S	1300W		

Test Data

Item No.	Voltage (V)	Prop	Throttle	Current (A)	Power (W)	Thrust (G)	RPM	Efficiency (G/W)	Torque (N*m)	Operating Temperature (°C)
U7 V2.0 KV280	24	LIGPOWER 18*6.1CF	50%	3.5	84	980	3133	11.67	0.221	56.6
			55%	4.6	110	1191	3432	10.79	0.266	
			60%	5.8	139	1405	3707	10.09	0.312	
			65%	7.3	175	1662	4017	9.49	0.365	
			75%	10.3	247	2108	4538	8.53	0.459	
			85%	14.2	341	2634	5051	7.73	0.57	
			100%	20.5	492	3303	5680	6.71	0.715	
		LIGPOWER 20*6CF	50%	4.8	115	1267	2992	11.00	0.309	78
			55%	6.3	151	1549	3271	10.24	0.37	
			60%	8.4	202	1907	3620	9.46	0.454	
			65%	10.05	241	2124	3843	8.81	0.513	
			75%	14.24	342	2717	4309	7.95	0.639	
			85%	19.4	466	3281	4779	7.05	0.785	
			100%	27.4	658	4078	5263	6.20	0.973	
		LIGPOWER 22*6.6CF	50%	6.2	149	1565	2856	10.52	0.408	HOT
			55%	8.5	204	1956	3154	9.59	0.519	
			60%	10.6	254	2264	3391	8.90	0.588	
			65%	13.2	317	2615	3638	8.25	0.676	
			75%	18.6	446	3281	4052	7.35	0.835	
			85%	25.7	617	3926	4417	6.37	1.007	
			100%	35.1	842	4640	4809	5.51	1.209	

U7 V2.0	KV420	22.2	LIGPOWER 15*5CF	50%	6.1	135	1160	4500	8.57	45	
				65%	11.7	260	1870	5700	7.20		
				75%	15.3	340	2260	6300	6.65		
				85%	20.8	462	2690	6850	5.83		
				100%	24.7	548	3030	7250	5.53		
		25	LIGPOWER 16*5.4CF	50%	7.3	162	1350	4550	8.33	47	
				65%	13.6	302	2130	5500	7.05		
				75%	18.6	413	2630	6000	6.37		
				85%	24.2	537	3050	6550	5.68		
				100%	28.7	637	3360	6900	5.27		
U7 V2.0	KV420	25	T-MOTO R17*5.8CF	50%	10	250	1940	4500	7.76	51	
				65%	18.2	455	2880	5700	6.33		
				75%	25.4	635	3530	6300	5.56		
				85%	32.9	823	4080	6900	4.96		
				100%	39.7	993	4560	7200	4.59		
		22.2	LIGPOWER 18*6.1CF	50%	12	300	2250	4200	7.50	59	
				65%	22.5	563	3330	5200	5.92		
				75%	31	775	4050	6000	5.23		
				85%	39.8	995	4500	6200	4.52		
				100%	47.5	1188	5060	6700	4.26		
U7 V2.0	KV490	22.2	T-MOTO R15*5CF	50%	9.3	206	1600	5300	7.75	46	
				65%	18	400	2400	6600	6.01		
				75%	25.6	568	3060	7500	5.38		
				85%	33.3	739	3680	8100	4.98		
				100%	39.8	884	4100	8500	4.64		
			14.8	LIGPOWER 16*5.4CF	50%	10.3	229	1800	5100	7.87	48
					65%	19.5	433	2600	6200	6.01	
					75%	26.6	591	3220	6840	5.45	
					85%	35.2	781	3860	7420	4.94	
					100%	48.1	1068	4620	8000	4.33	
		14.8	T-MOTO R17*5.8CF	50%	7.1	105	1100	3500	10.47	44	
				65%	12.9	191	1720	4300	9.01		
				75%	18.5	274	2190	4900	8.00		
				85%	24.7	366	2600	5300	7.11		
				100%	30.3	448	3000	5640	6.69		
			50%	8.4	124	1280	3420	10.30			

25	LIGPOWER 18*6.1CF	65%	15.6	231	2020	4200	8.75	45
		75%	21.8	323	2500	4650	7.75	
		85%	29	429	2900	5100	6.76	
		100%	34.6	512	3240	5370	6.33	
	LIGPOWER 17*5.8CF	50%	14	350	2260	5000	6.46	57
		65%	25.5	638	3450	6000	5.41	
		75%	34.8	870	4020	6700	4.62	
		85%	44.5	1113	4790	7200	4.31	
		100%	53	1325	5070	7600	3.83	
	LIGPOWER 18*6.1CF	50%	16.8	420	2720	4900	6.48	60
		65%	29.5	738	3850	5400	5.22	
		75%	40	1000	4510	6000	4.51	
		85%	50	1250	5080	6300	4.06	
		100%	62	1550	5600	6800	3.61	

Notes: The test condition of temperature is motor surface temperature at 100% throttle while the motor run 10min.