

Motor parameters	KV 8.6	KV 4.3
Continuous Power (kW)	50.0	50.0
Continuous Torque (Nm)	239	239
Rotation Speed (rpm)	2,000	2,000
Efficiency (%)	95.8%	95.8%
Minimal Battery Voltage (V)	277	554
Phase Current RMS (A)	162	323.9
Power per mass (kW/kg)	2.8	2.8
Torque per mass (Nm/kg)	13.3	13.3
Losses (kW)	2.18	2.18
Peak Power up 3 min (kW)	75.0	75.0
Peak Torque up 3 min (Nm)	298	298
Rotation Speed (rpm)	2,400	2,400
Efficiency (%)	95.3%	95.3%
Minimal Battery Voltage (V)	368	736
Phase Current RMS (A)	206	413
Power per mass (kW/kg)	4.2	4.2
Torque per mass (Nm/kg)	16.6	16.6
Losses (kW)	3.73	3.73
Motor Mass (kg)	18	18
Max Rotation Speed (rpm)	2,800	2,800
Lamination length (mm)	50	50
Number of poles	28	28
Number of slots	24	24
Cooling system	air	air
Wire size	0.8x5mmx4 22turns	0.8x5mmx4 22turns
Phase cross section (mm ²) (6 AWG 8.5 mm)	16	8
Phase current density (Continuous) (Arms/mm ²)	10.1	10.1
Torque Pulsation (Continuous) (%)	2.7%	2.7%
Motor velocity constant Kv (rpm/V)	8.6	4.3
Motor torque constant Kt (Nm/Adc)	1.11	2.2
Size D/L (mm)	282/97	282/97
Magnets grade (max temp 180 C)	N52UH	N52UH
Stator core steel	H 070-20	H 070-20
Motor max working temp (C)	150	150
Battery cells	96	96
Battery max voltage (V)	403	403
Battery min voltage (V)	288	288
Motor mounting	8xM8 on 80 mm	8xM8 on 80 mm
Propeller mounting	8xM8 on 80 mm	8xM8 on 80 mm
Safety factor	>3	>3
Temperature sensor	PT1000	PT1000
TBO 200 kg 2000 rpm (hour)	2951	2951
Recomended propeller	82"	82"
Trust continuse (kg)	200	200