

EUM-M605 230KV



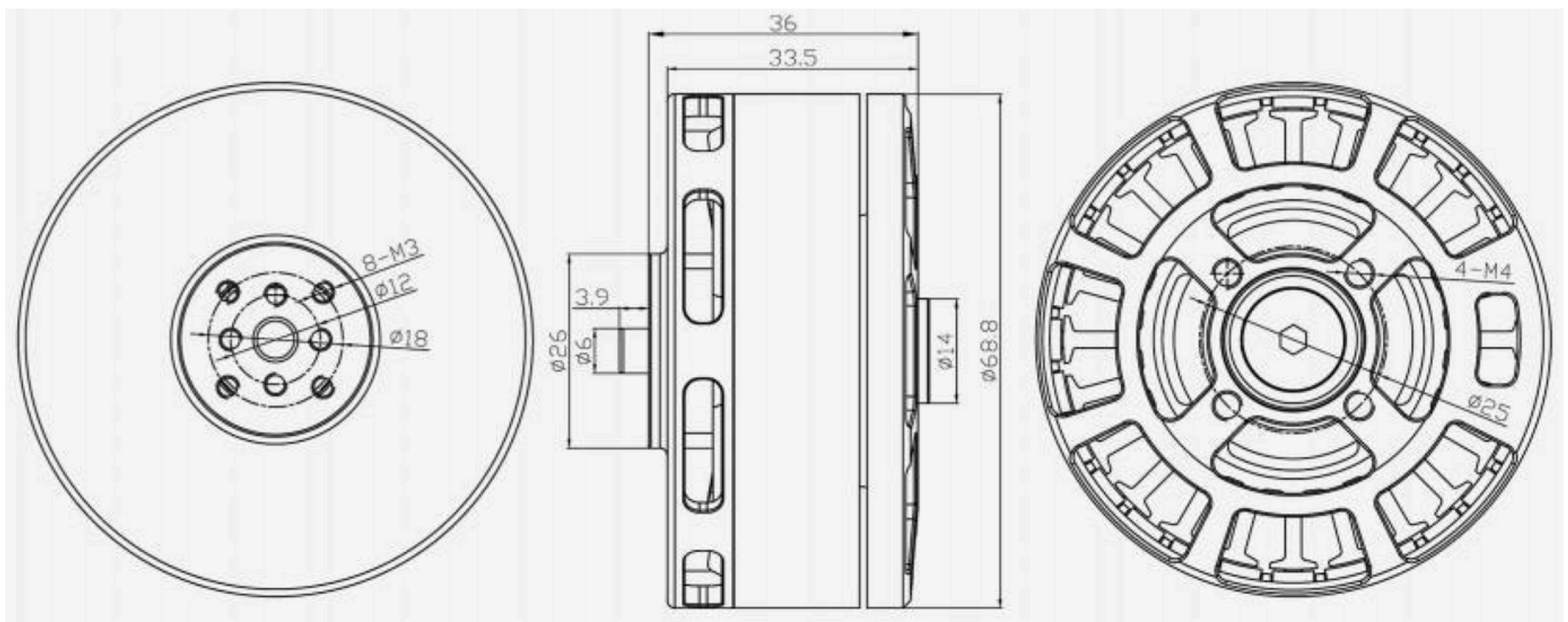
Основні Характеристики Двигуна Motor Basic Parameters

Модель Product	EUM-M605	Рекомендований ESC Recommended ESC	80 A
Розміри Двигуна (мм) Motor Size (mm)	Ø68.8 × 36 mm	Магніт Magnet	150°C
Клас Ізоляції Проводу Enameled wire	200°C	Електрична Міцність Ізоляції Isolation test	500VDC
Рекомендований гвинт Recommended propeller	18-24 inch	Монтажний діаметр пропелера Props mounting dimension	4xM3 @ Ø12 mm 4xM3 @ Ø18 mm

Технічні Параметри Двигуна Motor Technical Parameters

KV	230 KV	Акумулятор (LiPo) Battery	12S (4.2 V per cell)
Рекомендована тяга одного двигуна Recommended single-axis thrust	2-8 kg	Максимальна потужність Max power	2505 W
Макс. тяга для квадрокоптера Max thrust for four-axis system	32 kg	Довжина проводу Wire length	Customizable
Балансування Dynamic balance	≤20mg	Вага (вкл. провід) Weight (with wire)	340 g (with wire included)

Основні розміри Dimensions diagram



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Параметри продуктивності під навантаженням Load Performance Parameters

Motor	Prop	Throttle (%)	Voltage (V)	Current (A)	Thrust (kgf)	Torque (N·m)	Speed (rpm)	Input Power (W)	Output Power (W)	Electric Efficiency (%)	Prop Efficiency (g/W)	System Efficiency (g/W)
EUM-M605 230KV	18	10%	48.02	0.182	0.051	0.0126	723.8	9.2	1	0.102	33.212	5.543
		20%	48.04	0.551	0.183	0.0636	1205.5	26.5	6.7	0.312	25.179	7.073
		25%	48.03	1.063	0.387	0.1161	1865.4	51.1	22.7	0.434	18.568	7.732
		30%	48.01	1.742	0.658	0.1607	2430.2	83.6	43.3	0.513	15.761	7.98
		35%	47.97	3.041	1.004	0.2721	3128.7	145.9	89.1	0.608	12.484	7.557
		40%	47.94	3.923	1.438	0.3237	3590.2	188.1	121.6	0.647	11.837	7.651
		45%	47.88	6.071	1.877	0.4704	4202.6	290.7	207	0.712	9.503	6.519
		50%	47.82	8.047	2.524	0.5788	4732.5	384.8	286.7	0.745	8.816	6.564
		55%	47.72	11.045	3.154	0.7264	5317.6	527	405.5	0.769	7.818	6.012
		60%	47.62	13.43	3.603	0.8255	5776.1	639.5	499.1	0.78	7.228	5.639
		65%	47.44	16.862	4.240	0.9789	6233.7	799.9	637.5	0.797	6.659	5.304
		71%	47.23	21.536	5.068	1.1738	6720.3	1017.9	827	0.812	6.123	4.973
		75%	47.08	24.86	5.552	1.2893	7084	1170.3	956.1	0.817	5.813	4.748
		80%	46.81	30.504	6.271	1.4087	7633.6	1427.8	1174.4	0.823	5.343	4.394
		85%	46.46	38.822	7.408	1.7598	8111.3	1803.8	1404.2	0.828	5.021	4.16
		90%	46.34	41.981	7.980	1.8343	8362.5	1941.9	1603.6	0.827	4.951	4.094
		95%	46.35	41.217	7.356	1.7094	8383.8	1910.4	1579	0.827	4.912	4.06
100%	46.36	41.003	7.702	1.7923	8392	1900.7	1574.3	0.828	4.892	4.052		

Motor	Prop	Throttle (%)	Voltage (V)	Current (A)	Thrust (kgf)	Torque (N·m)	Speed (rpm)	Input Power (W)	Output Power (W)	Electric Efficiency (%)	Prop Efficiency (g/W)	System Efficiency (g/W)
EUM-M605 230KV	19	16%	48.03	0.557	0.119	0.0287	1122.4	26.8	3.4	0.126	35.328	4.441
		20%	48.03	0.829	0.275	0.0658	1653	39.8	11.4	0.286	24.277	6.918
		25%	48.01	1.407	0.558	0.1249	2274.9	67.6	29.7	0.44	18.811	8.27
		30%	47.98	2.193	0.907	0.1971	2855.7	105.2	58.9	0.56	15.395	8.619
		35%	47.95	3.229	1.298	0.2757	3397.2	154.8	98	0.633	13.248	8.385
		40%	47.91	4.459	1.721	0.3595	3912.2	213.6	147.2	0.689	11.702	8.062
		45%	47.86	6.207	2.169	0.4532	4502.2	297	213.6	0.719	10.158	7.303
		50%	47.78	8.522	2.846	0.5835	5046.3	407.2	308.2	0.757	9.239	6.991
		55%	47.69	11.207	3.457	0.7181	5594.2	534.5	420.4	0.787	8.227	6.471
		60%	47.55	14.22	4.185	0.8504	6103.5	676.2	543.2	0.803	7.705	6.19
		65%	47.40	17.42	4.748	0.9665	6670.9	825.7	674.9	0.817	7.039	5.753
		71%	47.20	21.959	5.511	1.1496	7151.8	1036.3	860.6	0.83	6.41	5.323
		75%	47.02	25.994	6.206	1.294	7577.4	1222.2	1026.4	0.84	6.052	5.082
		80%	46.80	30.554	6.930	1.4441	7974.3	1429.9	1205.4	0.843	5.753	4.85
		86%	46.50	37.749	8.103	1.6686	8503.7	1755.2	1485.3	0.846	5.458	4.619
		90%	46.27	43.263	8.860	1.8234	8897.7	2001.9	1698.3	0.848	5.219	4.428
		94%	46.28	42.978	8.754	1.7921	8952.2	1989	1679.2	0.844	5.213	4.401
98%	46.30	42.259	8.519	1.7533	8975.1	1956.5	1647	0.842	5.172	4.354		
100%	46.29	42.449	8.626	1.7675	8969.9	1965	1659.4	0.844	5.198	4.39		

Наведені дані отримані дроселюванням при температурі 25°C.
The data provided above was obtained by throttling control at 25°C.

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Параметри продуктивності під навантаженням Load Performance Parameters

Motor	Prop	Throttle (%)	Voltage (V)	Current (A)	Thrust (kgf)	Torque (N·m)	Speed (rpm)	Input Power (W)	Output Power (W)	Electric Efficiency (%)	Prop Efficiency (g/W)	System Efficiency (g/W)
EUM-M605 230KV	20	30%	48.00	1.99	0.777	0.1962	2473.2	95.5	50.9	0.528	15.79	8.237
		36%	47.96	3.368	1.217	0.3107	3092.9	161.5	100.7	0.621	12.314	7.604
		40%	47.92	4.358	1.601	0.3759	3509.6	208.9	138.1	0.66	11.673	7.692
		46%	47.84	7.096	2.315	0.5564	4237.4	339.5	246.9	0.727	9.422	6.84
		51%	47.76	9.709	2.998	0.7043	4788.8	463.7	353.1	0.761	8.511	6.476
		56%	47.67	12.226	3.535	0.8158	5257.8	582.7	449	0.77	7.895	6.079
		61%	47.53	15.171	4.146	0.9515	5691.9	721	566.9	0.786	7.33	5.761
		66%	47.35	18.929	4.775	1.1082	6159.8	896.3	714.7	0.797	6.694	5.335
		70%	47.20	22.35	5.382	1.2432	6520.1	1054.9	848.6	0.804	6.351	5.107
		75%	46.94	28.267	6.406	1.4694	7027.4	1327	1080.9	0.815	5.93	4.83
		81%	46.66	34.517	7.251	1.67	7535.1	1610.4	1317.3	0.818	5.508	4.506
		85%	46.45	39.408	7.934	1.8272	7851.8	1830.6	1501.7	0.82	5.286	4.336
		91%	46.19	45.844	9.054	2.0333	8195.5	2117.6	1744.2	0.824	5.191	4.276
		95%	46.17	46.114	9.059	2.0445	8180.2	2129.3	1750.6	0.822	5.175	4.254
100%	46.23	44.398	8.566	1.9504	8241.9	2052.6	1682.4	0.82	5.092	4.173		

Motor	Prop	Throttle (%)	Voltage (V)	Current (A)	Thrust (kgf)	Torque (N·m)	Speed (rpm)	Input Power (W)	Output Power (W)	Electric Efficiency (%)	Prop Efficiency (g/W)	System Efficiency (g/W)
EUM-M605 230KV	22	26%	48.00	1.591	0.684	0.2282	1852.1	76.4	44.3	0.576	15.867	9.063
		30%	47.97	2.459	1.094	0.3077	2313.5	117.9	74.5	0.63	14.855	9.335
		35%	47.92	4.189	1.702	0.4599	2878.5	200.7	138.6	0.69	12.352	8.513
		40%	47.87	5.985	2.255	0.5945	3340.4	286.5	208	0.725	10.917	7.911
		45%	47.79	8.627	2.935	0.777	3841	412.3	312.4	0.758	9.424	7.135
		50%	47.63	12.767	3.839	1.0159	4444.8	608	472.7	0.777	8.138	6.325
		55%	47.43	17.078	4.645	1.2332	4925.8	810	635.9	0.785	7.315	5.742
		60%	47.25	21.114	5.435	1.4133	5320.8	997.5	787	0.789	6.908	5.449
		65%	47.03	26.098	6.146	1.6329	5694.3	1227.3	973.2	0.793	6.32	5.011
		70%	46.67	33.875	7.292	1.9615	6092.1	1581	1250.8	0.791	5.832	4.614
		76%	46.40	40.549	8.206	2.1875	6498.3	1881.2	1487.9	0.791	5.518	4.364
		81%	46.05	49.204	9.142	2.4671	6885.3	2265.6	1778.1	0.785	5.144	4.037
		85%	45.77	56.176	10.077	2.6734	7131.6	2571.3	1995.6	0.776	5.051	3.92
		91%	45.40	62.778	11.204	2.9539	7402.1	2850.4	2288.6	0.803	4.896	3.831
96%	45.44	62.798	10.991	2.9042	7427.3	2853.4	2257.8	0.791	4.868	3.852		
100%	45.41	62.654	11.026	2.888	7387.7	2845.1	2233.2	0.785	4.938	3.876		

Наведені дані отримані дроселюванням при температурі 25°C.
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Параметри продуктивності під навантаженням Load Performance Parameters

Motor	Prop	Throttle (%)	Voltage (V)	Current (A)	Thrust (kgf)	Torque (N·m)	Speed (rpm)	Input Power (W)	Output Power (W)	Electric Efficiency (%)	Prop Efficiency (g/W)	System Efficiency (g/W)
EUM-M605 230KV	24x72	16%	48.02	0.234	0.145	0.0462	694.3	11.2	3.4	0.297	45.902	12.936
		20%	48.04	0.711	0.439	0.1458	1156.2	34.1	17.6	0.516	25.028	12.879
		25%	48.00	1.893	0.941	0.3381	1678.3	90.9	59.5	0.653	16.099	10.476
		30%	47.97	3.20	1.622	0.4599	2231.7	153.5	107.4	0.70	15.11	10.573
		35%	47.90	5.541	2.310	0.6897	2699.3	265.4	194.8	0.734	11.903	8.729
		40%	47.82	8.067	3.062	0.8703	3151	385.8	287	0.744	10.67	7.938
		45%	47.66	12.487	4.117	1.2097	3592.8	595	454.8	0.764	9.063	6.927
		50%	47.41	17.686	5.099	1.5035	4092.9	838.5	644	0.768	7.921	6.082
		55%	47.12	23.904	6.238	1.8207	4485.2	1126.4	854.7	0.759	7.3	5.539
		60%	46.80	30.71	7.211	2.1227	4860.8	1437.1	1080	0.752	6.681	5.021
		62%	46.69	33.167	7.564	2.2299	4946.5	1548.5	1154.6	0.746	6.556	4.889
		70%	46.14	46.771	9.325	2.7507	5415	2157.9	1559.2	0.723	5.986	4.325
		75%	45.77	55.917	10.224	3.0266	5782.9	2559.1	1832	0.716	5.582	3.996
		79%	45.44	62.554	11.055	3.2747	5956	2842.3	2041.6	0.718	5.416	3.889
		84%	44.89	62.515	11.434	3.6308	6180.8	2806.2	2348.9	0.837	4.869	4.075
		90%	44.56	62.202	11.374	3.7855	6476.1	2771.5	2565.9	0.926	4.433	4.104
		94%	44.58	62.23	11.410	3.748	6472.2	2774.1	2538.9	0.915	4.494	4.113
99%	44.57	62.19	11.410	3.746	6414.3	2771.7	2514.9	0.907	4.537	4.117		
100%	44.57	62.229	11.413	3.7328	6412.2	2773.9	2505.2	0.903	4.556	4.114		

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