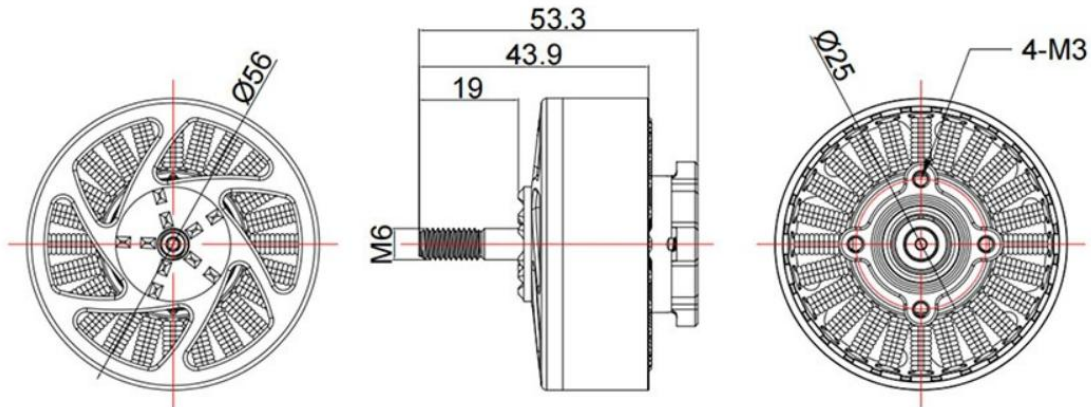


5015-300KV

HIGH-PERFORMANCE BRUSHLESS MOTOR

Application: 15-17Inch FPV Long Range

ENGINEERING DRAWING OVERVIEW



Specification	Value
Stator Diameter	Ø56 mm
Total Height	53.3 mm
Shaft Thread	M6
Mounting Pattern	25×25 mm (4-M3)

BASIC PARAMETERS

Parameter	Value
KV Value	300
Configuration (Slots/Poles)	24N28P
Shaft Diameter	6 mm
Silicone Wire	14#
Motor Weight (including cable)	235 g
Phase Terminal Resistance (including cable)	66 mΩ

Parameter	Value
Working Voltage	12S (Lipo)
No-Load Current (10V)	1.25 A
Maximum Power	2668.25 W
Maximum Current	55.9 A

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PERFORMANCE TEST DATA (12S VOLTAGE)

Propeller: 15×7.3×3 3-Blade

Throttle (%)	Voltage (V)	Current (A)	Speed (RPM)	Thrust (gf)	Power (W)	Efficiency (gf/W)
10	48.02	0.37	1623	124.35	17.5	7.10
20	47.99	1.36	3063	463.98	65.3	7.11
30	47.95	3.45	4453	1067.84	165.4	6.46
40	47.88	6.72	5666	1880.05	321.9	5.84
50	47.83	10.59	6587	2695.54	506.3	5.33
60	47.70	16.99	7667	3819.57	810.4	4.71
70	47.50	26.09	8805	5273.22	1239.4	4.26
80	47.31	35.68	9674	6522.02	1688.0	3.86
90	47.16	42.31	10156	7271.19	1995.2	3.64
100	47.16	42.13	10145	7206.20	1987.1	3.63

Propeller: 15×9×3 3-Blade

Throttle (%)	Voltage (V)	Current (A)	Speed (RPM)	Thrust (gf)	Power (W)	Efficiency (gf/W)
10	50.50	0.41	1509	123.62	20.81	5.94

Throttle (%)	Voltage (V)	Current (A)	Speed (RPM)	Thrust (gf)	Power (W)	Efficiency (gf/W)
20	50.45	1.31	2723	511.66	65.89	7.77
30	50.37	3.24	3882	1146.97	163.20	7.03
40	50.20	6.27	4906	1971.20	314.70	6.26
50	49.94	11.44	6007	3105.58	571.26	5.44
60	49.64	17.29	6848	4151.91	858.33	4.84
70	49.25	24.73	7656	5294.98	1217.90	4.35
80	48.80	33.56	8365	6395.51	1637.58	3.91
90	48.29	43.67	8994	7397.35	2108.73	3.51
100	47.73	55.90	9530	8464.00	2668.25	3.17

* Technical specifications are based on manufacturer's lab environment testing. Actual performance may vary.