

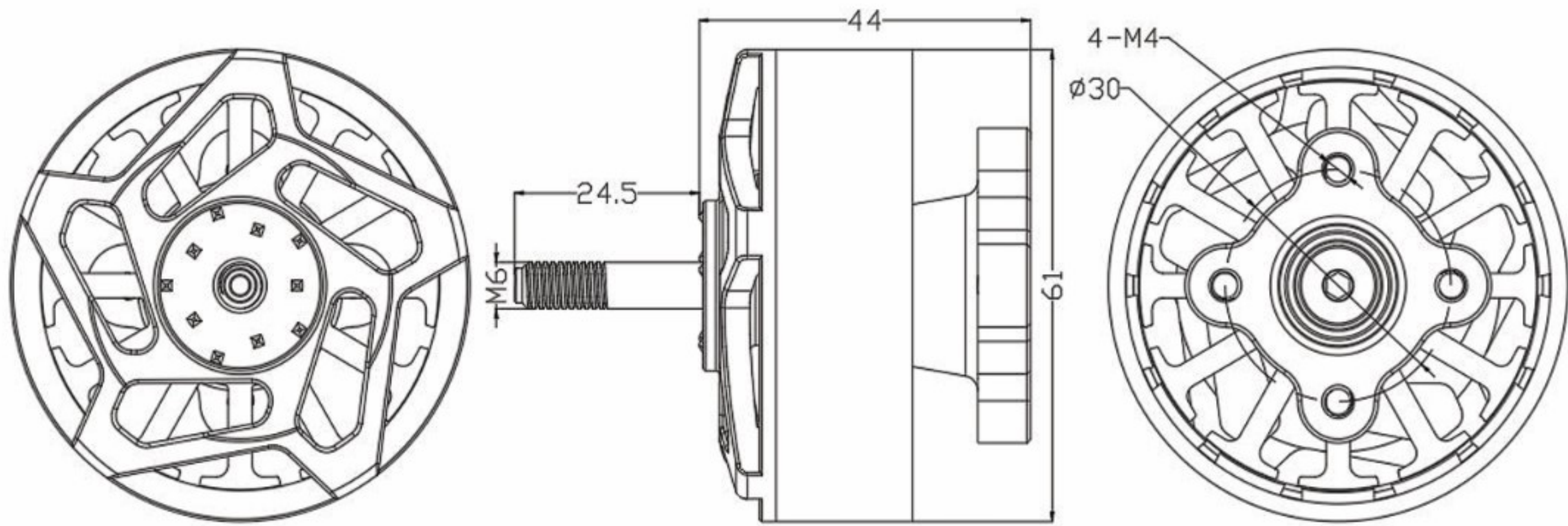


Pilotix 5315 420KV brushless motor designed for FPV applications, featuring a 12N14P configuration with a 53mm x 15mm stator. Operates within a voltage range of 22.2V to 33.6V with a rated voltage of 29.6V, delivering maximum power output of 2980W at maximum current draw of 101.1A. The motor exhibits an internal resistance of 20.25mΩ and no-load current of 2.98A at 24V. Physical dimensions measure 61mm diameter by 44mm height with a 6mm diameter shaft extending 24.5mm. Includes 12AWG silicone cables with 600mm length and utilizes 30 x 30mm M4 mounting pattern. Unit weight is 401g.

Product details	
Model	5315 420KV
SKU	5943
Electrical specifications	
Motor KV	420 KV
Rated voltage	29.6 V
Operating voltage range	22.2 - 33.6 V
Maximum current	101.1 A
Maximum power	2980 W
No-load current	2.98 A @ 24 V
Internal resistance	20.25 mΩ
Mechanical specifications	
Configuration	12N14P
Stator size	53 x 15 mm
Shaft size	6 x 24.5 mm
Motor dimensions	61 x 44 mm
Silicone cable	12 AWG
Silicone cable length	600 mm
Mounting	30 x 30 mm (M4)

Weight	401 g
Common	
Package contents	Mounting screws
Warranty	2 years

Mechanical specification



Motor performance data

Model	Propeller	Voltage (V)	Throttle (%)	Current (A)	Thrust (g)	Efficiency (g/w)	Input (W)
5315 420KV	GF1507-3R	25.03	30	2.74	628	9.2	68.6
		25	40	6.08	1228	8.1	152.0
		24.94	50	11.37	1960	6.9	283.6
		24.79	60	18.99	2807	6.0	470.8
		24.61	70	28.26	3669	5.3	695.5
		24.39	80	40.59	4598	4.6	990.0
		24.12	90	55.68	5552	4.1	1343.0
		23.94	100	66.37	6128	3.9	1588.9

Model	Propeller	Voltage (V)	Throttle (%)	Current (A)	Thrust (g)	Efficiency (g/w)	Input (W)
5315 420KV	GF1507-3R	32.1	30	4.0	1040	8.2	126.6
		32.0	40	9.2	1977	6.7	294.6
		31.9	50	17.2	3047	5.6	548.8
		31.7	60	27.6	4201	4.8	873.5
		31.4	70	42.9	5511	4.1	1345.8
		31.1	80	61.1	6803	3.6	1898.1
		30.7	90	88.7	8094	3.0	2719.0
		29.5	100	101.1	8324	2.8	2980.4