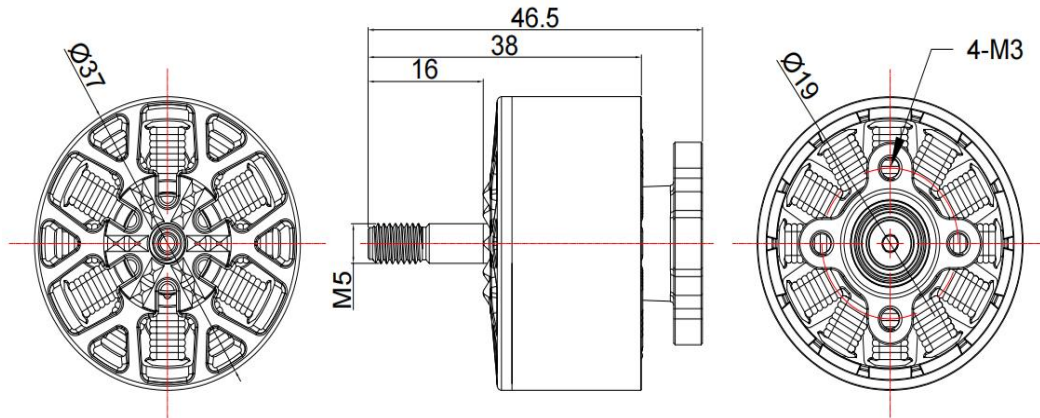


# 3115-900KV

## HIGH-PERFORMANCE BRUSHLESS MOTOR

Application: 10Inch FPV Long Range

### ENGINEERING DRAWING OVERVIEW



Specification	Value
Stator Diameter	Ø37 mm
Total Height	46.5 mm
Shaft Thread	M5
Mounting Pattern	16×16 mm (4-M3)

### BASIC PARAMETERS

Parameter	Value
KV Value	900
Configuration (Slots/Poles)	12N14P
Shaft Diameter	5 mm
Silicone Wire	18#
Motor Weight (including cable)	111.52 g
Phase Terminal Resistance (including cable)	78.23 mΩ

Parameter	Value
Working Voltage	6S (Lipo)
No-Load Current (10V)	0.82 A
Maximum Power	2005.4 W
Maximum Current	88.27 A

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## **PERFORMANCE TEST DATA (6S VOLTAGE)**

### **Propeller: 10-inch folding blade**

Throttle (%)	Voltage (V)	Current (A)	Speed (RPM)	Thrust (gf)	Power (W)	Efficiency (gf/W)
10	24.19	0.202	1691.6	32.8	4.886	6.713
20	24.16	1.248	4093.8	225.5	30.152	7.479
30	24.11	3.55	6178.8	549.11	85.591	6.416
40	24.04	7.735	8182.2	1005.09	185.949	5.405
50	23.91	14.036	10054.1	1552.31	335.601	4.625
60	23.71	23.104	11826.8	2177.68	547.796	3.975
70	23.46	34.34	13408.1	2869.09	805.616	3.561
80	23.17	47.033	14709.8	3475.79	1089.755	3.190
90	22.83	62.341	15816.0	4012.71	1423.245	2.819
<b>100</b>	<b>22.61</b>	<b>71.938</b>	<b>16445.9</b>	<b>4311.74</b>	<b>1626.518</b>	<b>2.651</b>

### **Propeller: Gemfan1050 three-blade propeller**

Throttle (%)	Voltage (V)	Current (A)	Speed (RPM)	Thrust (gf)	Power (W)	Efficiency (gf/W)
10	25.28	0.219	1729.4	44.16	5.536	7.976

Throttle (%)	Voltage (V)	Current (A)	Speed (RPM)	Thrust (gf)	Power (W)	Efficiency (gf/W)
20	25.26	1.456	4103.7	290.66	36.779	7.903
30	25.19	4.434	6179.6	731.15	111.692	6.546
40	25.07	9.991	8123.3	1332.99	250.474	5.322
50	24.88	18.33	9838.1	2008.92	456.050	4.405
60	24.59	30.666	11271.6	2679.26	754.077	3.553
70	24.26	43.851	12599.3	3394.71	1063.825	3.191
80	23.85	59.324	13581.5	3986.67	1414.877	2.818
90	23.39	75.995	14314.7	4456.67	1777.523	2.507
<b>100</b>	<b>23.05</b>	<b>85.307</b>	<b>14556.6</b>	<b>4613.43</b>	<b>1966.326</b>	<b>2.346</b>

### Propeller: HQ10x5x3 three-blade propeller

Throttle (%)	Voltage (V)	Current (A)	Speed (RPM)	Thrust (gf)	Power (W)	Efficiency (gf/W)
10	25.27	0.231	1697.5	51.03	5.837	8.742
20	25.24	1.557	3957.5	316.85	39.299	8.063
30	25.16	5.035	6028.5	795.20	126.681	6.277
40	25.01	11.376	7877.9	1413.76	284.514	4.969
50	24.78	20.638	9489.9	2088.91	511.410	4.085
60	24.45	33.352	10772.9	2731.80	815.456	3.350
70	23.97	51.561	11349.5	3057.75	1235.917	2.474
80	23.59	62.58	12700.9	3889.84	1476.262	2.635
90	23.09	79.599	13318.9	4316.13	1837.941	2.348
<b>100</b>	<b>22.72</b>	<b>88.268</b>	<b>13482.9</b>	<b>4436.74</b>	<b>2005.449</b>	<b>2.212</b>

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

