

# Spektrum Avian Brushless Motor Spec Chart



Item Number	SPMXAM4502	SPMXAM4560	SPMXAM4595	SPMXAM4620	SPMXAM4630	SPMXAM4675	SPMXAM4700	SPMXAM4715	SPMXAM4725	SPMXAM4740	SPMXAM4745	SPMXAM4770	SPMXAM4795	SPMXAM4796	SPMXAM4800	SPMXAM4805
<b>Description</b>	Avian 2813-1750Kv Outrunner Brushless Motor	Avian 2830-950Kv Outrunner Brushless Motor	Avian 3530-1250Kv Outrunner Brushless Motor	Avian 3536-1200Kv Outrunner Brushless Motor	Avian EF1 Race 3545-1250Kv Outrunner Brushless Motor	Avian 4240-1000Kv Outrunner Brushless Motor	Avian 4250-800Kv Outrunner Brushless Motor	Avian 4260-480Kv Outrunner Brushless Motor	Avian 4260-800Kv Outrunner Brushless Motor	Avian 5055-500Kv Outrunner Brushless Motor	Avian 5055-650Kv Outrunner Brushless Motor	Avian 5065-450Kv Outrunner Brushless Motor	Avian 6362-250Kv Outrunner Brushless Motor	Avian 6362-200Kv Outrunner Brushless Motor	Avian 8075-230Kv Outrunner Brushless Motor	Avian 8085-160Kv Outrunner Brushless Motor
<b>Includes</b>	prop saver, prop adapter, motor mount and bullet connectors	prop saver, prop adapter, motor mount and bullet connectors	prop adapter, motor mount and bullet connectors	prop adapter, motor mount and bullet connectors	prop adapter, motor mount and bullet connectors	prop adapter, motor mount and bullet connectors	prop adapter, motor mount and bullet connectors	prop adapter, motor mount and bullet connectors	prop adapter, motor mount and bullet connectors	prop adapter, motor mount and bullet connectors	prop adapter, motor mount and bullet connectors	prop adapter, motor mount and bullet connectors	prop adapter, motor mount and bullet connectors	prop adapter, motor mount and bullet connectors	prop driver, motor mount, hardware and bullet connectors	prop adapter, motor mount and bullet connectors
<b>Diameter</b>	28 mm (1.1 in)	28 mm (1.1 in)	35 mm (1.4 in)	35mm (1.4 in.)	35 mm (1.4 in)	42 mm (1.7 in)	42 mm (1.7 in)	42 mm (1.7 in)	42 mm (1.7 in)	50 mm (2.0 in)	50 mm (2.0 in)	50 mm (2.0 in)	63 mm (2.5 in)	63 mm (2.5 in)	80 mm (3.1 in)	80 mm (3.1 in)
<b>Length</b>	13 mm (0.51 in)	30 mm (1.2 in)	30 mm (1.2 in)	36 mm (1.42 in)	45 mm (1.77 in)	40 mm (1.6 in)	50 mm (2.0 in)	60 mm (2.4 in)	60 mm (2.4 in)	55 mm (2.2 in)	55 mm (2.2 in)	65 mm (2.6 in)	62 mm (2.4 in)	62 mm (2.4 in)	75 mm (3.0 in)	85 mm (3.4 in)
<b>kV</b>	1750	950	1250	1200	1250	1000	800	480	800	500	650	450	250	200	230	160
<b>Constant Watts</b>	60	160	220	310	700	375	600	810	810	900	900	1200	1900	1450	3750	4400
<b>Burst Watts</b>	100	250	350	510	1000	625	1000	1350	1350	1500	1500	2000	3150	2300	6250	7500
<b>Weight</b>	20 g (0.71 oz)	54 g (1.9 oz)	71 g (2.5 oz)	102 g (3.6 oz)	159g (5.6 oz)	125 g (4.4 oz)	198 g (7 oz)	268 g (9.5 oz)	268 g (9.5 oz)	298 g (10.5 oz)	298 g (10.5 oz)	400 g (14.1 oz)	634 g (22.4 oz)	635 g (22.4 oz)	1250 g (44.1 oz)	1480 g (52.2 oz)
<b>Shaft Diameter</b>	3 mm (0.12 in)	3 mm (0.12 in)	4 mm (0.16 in)	4 mm (0.16 in)	5 mm (0.2 in)	5 mm (0.2 in)	5 mm (0.2 in)	5 mm (0.2 in)	5 mm (0.2 in)	8 mm (0.31 in)	8 mm (0.31 in)	8 mm (0.31 in)	8 mm (0.31 in)	10 mm (0.375 in)	10 mm (0.39 in)	10 mm (0.39 in)
<b>Voltage Range</b>	7.4-11.1V / 2-3S LiPo	7.4-11.1V / 2-3S LiPo	7.4-11.1V / 2-3S LiPo	11.1 - 14.8V / 3-4S LiPo	7.4-14.8V 2-4S Lipo	11.1-14.8V / 3-4S LiPo	11.1-14.8V / 3-4S LiPo	18.5-22.2V / 5-6S LiPo	18.5-22.2V / 5-6S LiPo	18.5-22.2V / 5-6S LiPo	18.5-22.2V / 5-6S LiPo	18.5-22.2V / 5-6S LiPo	33.3 - 44.4V / 9-12S LiPo	33.3 - 44.4V / 10-12S Lipo	33.3-55.5V / 9-15S LiPo	33.3-55.5V / 9-15S LiPo
<b>Recommended Model Weight - Sport Flying</b>	225 g (8 oz)	905 g (32 oz)	1360 g (3 lbs)	1815 g (4 lbs)	1585 g (3.5 lb)	2040 g (4.5 lbs)	2950 g (6.5 lbs)	4310 g (9.5 lbs)	3400 g (7.5 lbs)	5215 g (11.5 lbs)	4705 g (10.5 lbs)	6520 g (14.5 lbs)	9070 g (20 lbs)	9070 g (20 lbs)	12.7 kg (28 lbs)	19.1 kg (42 lbs)
<b>Recommended Model Weight - 3D Flying</b>	140 g (5 oz)	565 g (20 oz)	905 g (2 lbs)	1135 g (2.5 lbs)	Not intended for 3D	1360 g (3 lbs)	1845 g (4 lbs)	2720 g (6 lbs)	2210 g (5 lbs)	3175 g (7 lbs)	2950 g (6.5 lbs)	4080 g (9 lbs)	5445 g (12 lbs)	5445 g (12 lbs)	8.17 kg (18 lbs)	11.79 kg (26 lbs)
<b>Connector</b>	2mm bullets	2mm bullets	3.5 mm bullet	3.5 mm bullet	3.5mm bullet	4mm bullets	4mm bullets	4mm bullets	4mm bullets	4mm bullets	4mm bullets	4mm bullets	4mm bullets	4mm bullets	6mm bullets	6mm bullets
<b>Recommended Prop Range</b>	7x6 - 8x4	8x6 - 10x4.5	10x4.5 - 10x7	10x7 - 11x7	8x8	11x8.5 - 12x6	12x6 - 13x8	13x10 - 15x8	10x5 - 11x5	15x6 - 15x8	12x6 - 13x4	16x6 - 17x8	16x8 - 18x8	16x8 - 19x10	22x8 - 26x10	22x10 - 26x12
<b>Recommended Speed Control</b>	15 AMP ESC	30 Amp ESC	30 AMP ESC	45 AMP ESC	100 AMP ESC	45 AMP ESC	45 AMP ESC	60 AMP ESC	60 AMP ESC	80 AMP ESC	80 AMP ESC	80 AMP ESC	80 AMP ESC	120 Amp ESC	120 Amp ESC	120 Amp ESC
<b>Application</b>	Airplane	Airplane	Airplane	Airplane	Airplane	Airplane	Airplane	Airplane	Airplane	Airplane	Airplane	Airplane	Airplane	Airplane	Airplane	Airplane
<b>Number of Poles</b>	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
<b>Gas / Glow Engine Equivalent</b>	250	400	0.10 cu in	0.15	EF1 Race Class	0.25 cu in	0.32 cu in	0.55 cu in	0.46 cu in	0.80 cu in	0.60 cu in	1.20 cu in	1.6 cu in	30cc	50cc	65 cc
<b>Shaft Length</b>	0.20" (5 mm)	0.47" (12 mm)	0.65" (17 mm)	0.65" (17 mm)	0.63" (16 mm)	0.67" (17 mm)	0.65" (17 mm)	0.65" (17 mm)	0.65" (17 mm)	0.79" (20 mm)	0.79" (20 mm)	0.79" (20 mm)	0.79" (20 mm)	1.41" (36 mm)	0.79" (20 mm)	0.79" (20 mm)
<b>Wire Length</b>	25mm	80mm	80mm	80mm	80mm	80mm	80mm	80mm	80mm	80mm	80mm	80mm	80mm	80mm	80mm	80mm
<b>Bearing Size (Front)</b>	3x6x2.5 mm	3x10x4 mm	4x10x4 mm	4x10x4 mm	5x13x4 mm	5x13x4 mm	5x13x4 mm	5x13x4 mm	5x13x4 mm	8x16x5 mm	8x16x5 mm	8x16x5 mm	8x19x6 mm	8x19x6 mm	10x26x8 mm	10x26x8 mm
<b>Bearing Size (Rear)</b>	3x6x2.5 mm	3x8x4 mm	4x10x4 mm	4x10x4 mm	5x10x4 mm	5x11x5 mm	5x11x5 mm	5x11x5 mm	5x11x5 mm	8x12x3.5 mm	8x12x3.5 mm	8x12x3.5 mm	8x16x5 mm	8x16x5 mm	10x22x6 mm	10x22x6 mm