

ECO II **SERIES**



IMPROVING THE PROVEN

The engineers at EMAX are always seeking ways to design the ultimate motor with brushless technology. In their efforts, they produced the ECO II Series, a new line of brushless motors further improving on the performance and durability while retaining the same affordability.



MODERN DESIGN

Redesigned from the ground up, the ECO II boasts an all new architecture. With a more rounded design paired together with thicker reinforcements, maximum durability is achieved. Finished with a reflective surface, the ECO II offers a sleek modern design destined to satisfy the need for both aesthetics and durability.



POWERFUL MAGNETS

In order to improve the performance from its predecessor, the ECO II utilizes n52 magnets over n48 magnets, allowing more powerful throttle response and higher RPM's to be achieved. More torque and thrust is generated, allowing pilots the flexibility to comfortably meet the demands of any racetrack or flight situation.

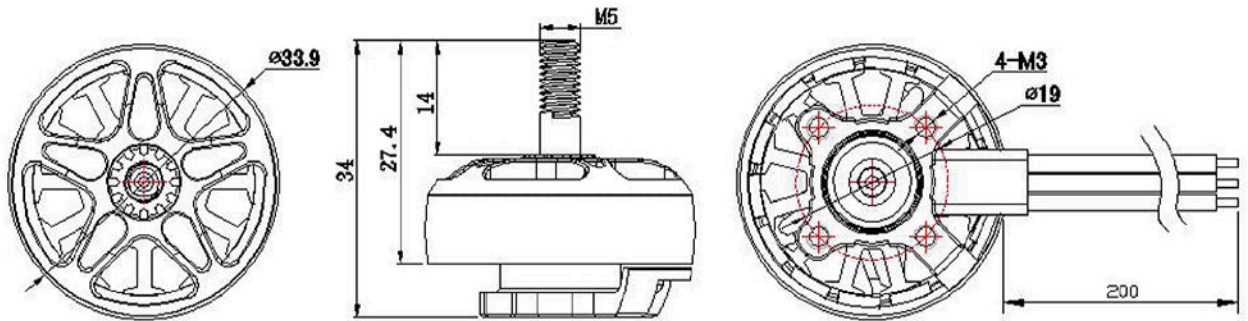


NEXT GENERATION

The ECO II Series marks the next evolution in affordable brushless motor technology, bringing in a new era of performance for everyone.



ECOII-2807



Specifications

Test Item	KV1300	Idle Current (10V)	1.3A
Motor Dimensions	φ 33.9*34mm	Internal Resistance	58mΩ
Framework	12N14P	No. of cells	3-6S
Bearing Shaft	4mm	Propeller	6"-7"
Lead	18#AWG 200mm	Peak Current (6S)	52A
Weight	47.6g(W/O Silicone Wire)	Max. Power (6S)	1310W

Test Item	KV1500	Idle Current (10V)	1.6A
Motor Dimensions	φ 33.9*34mm	Internal Resistance	49mΩ
Framework	12N14P	No. of cells	3-5S
Bearing Shaft	4mm	Propeller	6"-7"
Lead	18#AWG 200mm	Peak Current (5S)	58A
Weight	46.9g(W/O Silicone Wire)	Max. Power (5S)	1210W

Test Item	KV1700	Idle Current (10V)	2.1A
Motor Dimensions	φ 33.9*34mm	Internal Resistance	41mΩ
Framework	12N14P	No. of cells	3-4S
Bearing Shaft	4mm	Propeller	6"-7"
Lead	18#AWG 200mm	Peak Current (4S)	52A
Weight	47.9g(W/O Silicone Wire)	Max. Power (4S)	870W

Motor type	The voltage (V)	Propeller	current (A)	thrust (G)	power (W)	efficiency (G/W)	speed (RPM)
ECOII-2807-1300KV	25.2	Gemfan7042 2-blade propeller	2.2	300	55.44	5.41	8440
	25.2		4	500	100.80	4.96	10550
	25.2		5.4	700	136.08	5.14	12370
	25.2		9.3	900	234.36	3.84	13960
	25.2		12.4	1100	312.48	3.52	15360
	25.2		47.9	2190	1207.08	1.81	Max

Motor type	The voltage (V)	Propeller	current (A)	thrust (G)	power (W)	efficiency (G/W)	speed (RPM)
ECOII-2807-1300KV	25.2	Gemfan7040 3-blade propeller	2.3	300	57.96	5.18	8920
	25.2		4.1	500	103.32	4.84	11000
	25.2		6.4	700	161.28	4.34	12800
	25.2		9.3	900	234.36	3.84	14400
	25.2		12.5	1100	315.00	3.49	15700
	25.2		45.2	2490	1139.04	2.19	Max

Motor type	The voltage (V)	Propeller	current (A)	thrust (G)	power (W)	efficiency (G/W)	speed (RPM)
ECOII-2807-1300KV	25.2	HQ 7*3.5*3 3-blade propeller	2.1	300	52.92	5.67	7990
	25.2		4	500	100.80	4.96	10100
	25.2		6.4	700	161.28	4.34	11700
	25.2		9.2	900	231.84	3.88	13200
	25.2		12.4	1100	312.48	3.52	14600
	25.2		47.1	2580	1186.92	2.17	Max

Motor type	The voltage (V)	Propeller	current (A)	thrust (G)	power (W)	efficiency (G/W)	speed (RPM)
ECOII-2807-1300KV	25.2	HQ 7*4*3 3-blade propeller	2.2	300	55.44	5.41	6550
	25.2		4.2	500	105.84	4.72	9600
	25.2		6.5	700	163.80	4.27	11100
	25.2		9.4	900	236.88	3.80	12500
	25.2		13.4	1100	337.68	3.26	13900
	25.2		51.2	2640	1290.24	2.05	Max

ECOII 2807 1500KV

Motor type	The voltage (V)	Propeller	current (A)	thrust (G)	power (W)	efficiency (G/W)	speed (RPM)
ECOII-2807-1500KV	21	Gemfan7042 2-blade propeller	3	300	63.00	4.76	8620
	21		5.1	500	107.10	4.67	11000
	21		8.1	700	170.10	4.12	12300
	21		11.8	900	247.80	3.63	13900
	21		16.1	1100	338.10	3.25	15200
	21		52.3	1980	1098.30	1.80	Max

Motor type	The voltage (V)	Propeller	current (A)	thrust (G)	power (W)	efficiency (G/W)	speed (RPM)
ECOII-2807-1500KV	21	Gemfan7040 3-blade propeller	2.7	300	56.70	5.29	8920
	21		5.1	500	107.10	4.67	11100
	21		8	700	168.00	4.17	12900
	21		11.8	900	247.80	3.63	14500
	21		15.9	1100	333.90	3.29	15900
	21		50.4	2340	1058.40	2.21	Max

Motor type	The voltage (V)	Propeller	current (A)	thrust (G)	power (W)	efficiency (G/W)	speed (RPM)
ECOII-2807-1500KV	21	HQ 7*3.5*3 3-blade propeller	2.6	300	54.60	5.49	8080
	21		5	500	105.00	4.76	10100
	21		7.9	700	165.90	4.22	11800
	21		11.5	900	241.50	3.73	13300
	21		15.9	1100	333.90	3.29	14700
	21		53.3	2420	1119.30	2.16	Max

Motor type	The voltage (V)	Propeller	current (A)	thrust (G)	power (W)	efficiency (G/W)	speed (RPM)
ECOII-2807-1500KV	21	HQ 7*4*3 3-blade propeller	2.7	300	56.70	5.29	7830
	21		5.2	500	109.20	4.58	9750
	21		8.5	700	178.50	3.92	11300
	21		11.9	900	249.90	3.60	12600
	21		16.6	1100	348.60	3.16	14000
	21		57.1	2450	1199.10	2.04	Max

ECOH 2807 1700KV

Motor type	The voltage (V)	Propeller	current (A)	thrust (G)	power (W)	efficiency (G/W)	speed (RPM)
ECOII-2807-1700KV	16.8	Gemfan7042 2-blade propeller	3.3	300	55.44	5.41	8300
	16.8		6.2	500	104.16	4.80	11000
	16.8		9.8	700	164.64	4.25	12200
	16.8		14.3	900	240.24	3.75	13800
	16.8		19.7	1100	330.96	3.32	15300
	16.8		46.2	1810	776.16	2.33	Max

Motor type	The voltage (V)	Propeller	current (A)	thrust (G)	power (W)	efficiency (G/W)	speed (RPM)
ECOII-2807-1700KV	16.8	Gemfan7040 3-blade propeller	3.4	300	57.12	5.25	8900
	16.8		6.3	500	105.84	4.72	11100
	16.8		9.9	700	166.32	4.21	12900
	16.8		14	900	235.20	3.83	14300
	16.8		17.9	1100	300.72	3.66	15800
	16.8		43.7	1990	734.16	2.71	Max

Motor type	The voltage (V)	Propeller	current (A)	thrust (G)	power (W)	efficiency (G/W)	speed (RPM)
ECOII-2807-1700KV	16.8	HQ 7*3.5*3 3-blade propeller	3.2	300	53.76	5.58	8000
	16.8		5.1	500	85.68	5.84	10900
	16.8		9.6	700	161.28	4.34	11700
	16.8		13.9	900	233.52	3.85	13300
	16.8		18.9	1100	317.52	3.46	14600
	16.8		47.1	2060	791.28	2.60	Max

Motor type	The voltage (V)	Propeller	current (A)	thrust (G)	power (W)	efficiency (G/W)	speed (RPM)
ECOII-2807-1700KV	16.8	HQ 7*4*3 3-blade propeller	3.4	300	57.12	5.25	7600
	16.8		6.3	500	105.84	4.72	9100
	16.8		10.2	700	171.36	4.08	11100
	16.8		14.5	900	243.60	3.69	12600
	16.8		20.2	1100	339.36	3.24	13800
	16.8		51.2	2100	860.16	2.44	Max