

BRUSHLESS OUTRUNNER MOTORS



Hardware
Pack
Included!

3.5mm Gold
Male/Female
Connectors
INCLUDED

The Waypoint E22 Series represent a leap forward in powerful, yet affordable, Brushless Outrunner Motors for RC Aircraft. From front to back, they have been engineered to suit your needs. The retainer on front-side of the motor shaft is not only more secure than the typical airdip, but also allows effortless change to back-mount configuration. When the motor is backmounted, a 6mm shaft stub allows you to mount props with 3mm holes directly using the included Prop-Saver Adapter and O-Ring system (not inc with 2215 series motors). For high rpm operation, go without the prop saver, and mount a 3mm collet adapter directly to the shaft stub. You will find that the double sets of M3 mounting holes - on 16mm and 19mm centers - fit the mounts on virtually any ARF model aircraft. No extra drilling or fiddling to make it work!

The main motor components are made from CNC machined aluminum alloy, and the rotor housing from highly impermeable steel for highest magnetic efficiency. Fully-rounded magnets with high temperature rating insure that the motors stay reliable. For extra insurance against overheating, the VECTOR COOLING™ system pulls a steady stream of cool air through the motor. This not only prevents damage, but even increases efficiency - and therefore the power delivered throughout your flights...

MOTOR - PROPELLER - BATTERY DATA

The Charts provided give current draw per motor type, propeller type (APC SlowFly or Electric) and size, and lithium polymer batteries in 2S or 3S voltages. NOTE! These are estimated current draws! Actual will depend on many factors, such as the type and capacity of your battery, air temperature, and your elevation above sea level. It is YOUR RESPONSIBILITY to check motor and controller temperatures after running for 20 seconds to see if either gets hot quickly. During normal in-flight operation, the ESC should never exceed 55° C (130F), and motor never exceed 75° C (160F). The propellers listed are given as the MAXIMUM size for high performance, reliability, and efficiency. You may wish to fit a smaller prop for longer flights and less stress on your battery. You may wish to exceed the currents listed by up to 20% for applications such as 3D, where full throttle is used only for short bursts. However, do check temperatures after a short flight, and use an ammeter to check current flow before the first flight.

2205 Series

Use Batteries 350mAh to 800mAh, 16C~26C

W-E2205-32T		
Propeller	Battery	Current
APC EP 6.0x4.0	2S 7.4V	7.1A
APC EP 7.0x4.0	2S 7.4V	10.0A
APC EP 6.0x5.5	2S 7.4V	9.1A

32T for faster models
36T for slowly or 3D

W-E2205-36T		
Propeller	Battery	Current
APC SF 6.0x4.0	3S 11.1V	8.9
APC SF 6.0x5.5	2S 7.4V	7.5
APC SF 7.0x4.0	2S 7.4V	7.5
APC SF 8.0x3.8	2S 7.4V	10.0A 3D

2208 Series

Use Batteries 800mAh to 1200mAh, 16C~20C

W-E2208-30T		
Propeller	Battery	Current
APC EP 7.0x5.0	3S 11.1V	9.2A
APC EP 8.0x4.0	3S 11.1V	10.6A
APC EP 9.0x4.5	3S 11.1V	13.4A
APC SF 7.0x6.0	3S 11.1V	10.8A
APC SF 8.0x3.8	3S 11.1V	11.8A
APC SF 10x4.7	2S 7.4V	12.1A

30T for fast, sport/aerobatic
34T for slowly, scale, or 3D

W-E2208-34T		
Propeller	Battery	Current
APC SF 8.0x3.8	3S 11.1V	9.0A
APC SF 8.0x6.0	3S 11.1V	11.0A
APC SF 9.0x4.7	3S 11.1V	9.9A
APC SF 10.0x4.7	3S 11.1V	12.8A
APC SF 10.0x4.7	2S 7.4V	7.9A
APC SF 11.0x4.7	2S 7.4V	10.3A

MOTOR TYPE	Weight	Kv	IoA	RM mOhm
W-E2205-32	28g	1970	0.67	143
W-E2205-36		1770	0.64	195
W-E2208-30	36g	1300	0.49	178
W-E2208-34		1120	0.40	253
W-E2212-22	50g	1072	0.50	136
W-E2212-26		972	0.43	207
W-E2215-18	58g	1039	0.69	111
W-E2215-22		914	0.55	163



**E SERIES
OUTRUNNERS**

WAYPOINT

2212 Series

Use Batteries 800mAh to 2100mAh, 16C~20C

W-E2212-22T		
Propeller	Battery	Current
APC EP 9.0x4.5	3S 11.1V	14.1A
APC SF 8.0x3.8	3S 11.1V	12.4A
APC SF 9.0x4.7	3S 11.1V	13.8A
APC SF 10.0x4.7	2S 7.4V	13.5A

22T for fast, sport/aerobatic
26T for slowly, scale, or 3D

note: 22T is good for 2S 3D, as well

W-E2212-26T		
Propeller	Battery	Current
APC SF 9.0x4.7	3S 11.1V	10.1A
APC SF 10.0x4.7	3S 11.2V	13.0A
APC SF 11.0x4.7	2S 7.4V	9.4A
APC SF 12.0x6.0	2S 7.4V	13.3A

2215 Series

Use Batteries 1200mAh to 2100mAh, 16C~20C

W-E2215-18T		
Propeller	Battery	Current
APC EP 9.0x4.5	3S 11.1V	13.3A
APC EP 9.0x6	3S 11.1V	16.5A
APC SF 11.0x4.7	2S 7.4V	13.8A
APC SF 11.0x7	2S 7.4V	17.0A

W-E2215-22T		
Propeller	Battery	Current
APC EP 10.0x7.0	3S 11.1V	13.6A
APC EP 11.0x5.5	3S 11.1V	13.6A
APC EP 11.0x8.5	3S 11.1V	16.6A
APC SF 10.0x4.7	3S 11.1V	13.6A
APC SF 11.0x4.7	3S 11.1V	15.7A

18T for fast, sport/aerobatic
(9x6 to 10x5 APC E recommended)

22T for slowly, scale, or 3D

**BE SURE TO PROVIDE COOLING
AIRFLOW TO MOTOR AND ESC!**

**AND HAVE FUN,
WITH SAFETY IN MIND!!**

Programming Card
for Waypoint ESC

