

Ultrafly B/06/xx Series

Brushless, Sensorless Motors



The lightest motor that can turn an 11 inch propeller

Ultrafly's B/06/xx series brushless sensorless motors are designed for 3D models and Park Flyers. The precision CNC tooling with hi-quality material allows this motor to operate at higher RPM without vibrations. A unique patented design forces the magnet to hold its position when your propeller suddenly stops in high RPM. Quality, efficiency and light weight are the goal we are shooting for! Compared to all of our competitors in the 3D market, the "B" series motor has better torque than any other 3D motor with only 42g (1.47oz) in weight. Among all motors capable of turning an 11 inch propeller, this is the lightest one in the market so far. With higher torque, we deliver better (3-10%) efficiency when you put in the same power at large propeller application. It also means better acceleration while the airplane transforms from hovering to aggressive maneuvers.

Specification

Shaft diameter: 3.17mm, 1/8inch

Shaft Length: 11.5mm

Motor Diameter: 32.5mm

Motor Length: 41mm

Motor Weigh: 42g (1.47oz)

Distance of mounting holes: 16mm & 19mm

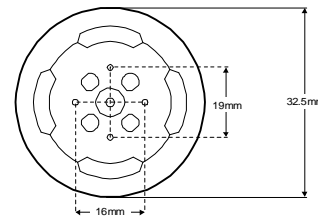
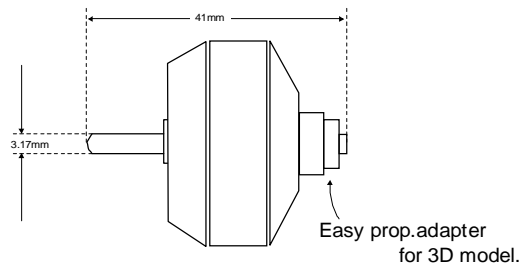
Mounting screw: M3x3mm

Maximum Input Power: 180watt

Maximum RPM: 16,000

Maximum Operating Temperature: 100 ° C

Magnet: Neodymium (150 ° C temperature tolerance)



Model	Max Aamp	RPM/Volt	Airplane	AUW	Prop size
B/06/10	12	1000	3D	450 g, 16oz	9 - 11 inch
			Sports	700g, 25oz	8 - 10 inch
			Hi-Wing	1kg, 35oz	8 - 10 inch
B/06/12	14	1200	3D	400g, 14oz	8 - 9 inch
			Sports	700g 25oz	7 - 9 inch
			Hi-Wing	900g, 32oz	7 - 9 inch
B/06/15	16	1450	Sports	700g, 24.5oz	7 inch
			Hi-Wing	900g, 32oz	7 - 8 inch
			Speedy	600g, 21oz	5 - 7 inch

Option Parts:

UF-PS001 Aluminum Propeller Adapter 3.17/5.0 mm
UF-SFT-010 3.17x41 mm v1 motor shaft for B/06
UF-SFT-011 3.17x47mm v1 motor shaft for B/06 & B/12
UF-SFT-012 3.17x53mm v1 motor shaft for B/06 & B/12 & B/18
UF-SFT-017 3.17x41mm v2 motor shaft (back mount) for B/06
UF-SFT-018 3.17x47mm v2 motor shaft (back mount) for B/06 & B/12
UF-SFT-019 3.17x53mm v2 motor shaft (back mount) for B/06 & B/12 & B/18
UF-BRN-010 3.17x7.94x3.54mm bearing for B Series motor
UF-SHC-001 017 shaft w/ bearing 010x2 combo for B/06
UF-MNT-001 Aluminum back mount plate for B series

Cautions:

Speed Controller: You must use a brushless, sensorless speed controller.

Cooling: You must provide proper cooling to avoid exceeding the 100-degree-celcius limit. Overheating will damage the magnets and windings, and is not covered under warranty.

Over current: Please use a current meter to control the battery cell count and the propeller size. When changing propeller size, or battery type you must measure the current. You must limit current to the specifications above, or less, to avoid damage to the motor. Reduce prop size or battery cell count to reduce current.

Max input watt: For each motor, its structural design will limit its heat dissipation. Watt input is proportional to heat generated. The maximum watt input for B series is 180 watts. Do not exceed this limit or you may burn out the motor.

Rotation: Switch any two of the three wires between speed controller and motor to reverse motor direction. NEVER reverse polarity from battery to speed controller.

Limited Warranty:

Ultrafly brushless motors have a one-year, limited warranty from date of purchase. All motors are guaranteed to be free from manufacturing defects for one year. The warranty does not cover over-current, over-temperature, or crash damage. The customer must properly cool the motor and keep the current and input wattage within specifications. Improper use of the motor can be determined in service and will not be covered in the warranty.

All warranty issues shall be handled by your dealer first. If necessary, you may also contact us for warranty issues. Send mail to service@ultraflymodel.com or contact the distributor in your country.



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