Instructions for PM1306 Brushless Motor

■ Product Features:

1. Using special customized engineering plastic, ensuring the strength of the motor.
2. Key parts are still made of metals, metal insert plastic injection molding process, rapid prototyping manufacturing, and good coherence, assuring the strength of the motor main parts, mounting holes, stator brace, retains the features of the metal version motors.
3. Imported silicon steel coin and high quality magnets, ensuring the motor life span and performance.
4. One-piece motor top bell and propeller adapter, ensuring concentricity; CW and CCW propeller adapters, holding the propeller tight, preventing the propeller (reverse) from getting rid off the propeller adapter during flight.

⚠ SAFETY INSTRUCTIONS AND WARNINGS

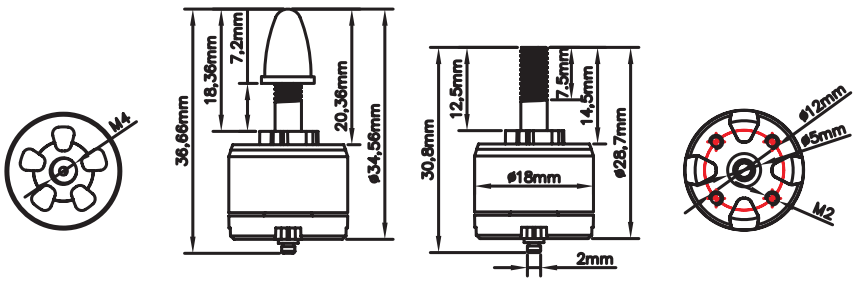
※ Please read the SAFETY INSTRUCTIONS AND WARNINGS carefully before you use the motor and strictly follow the instructions about Lipo cells and recommended propeller size.

1. For Lipo and propeller application, please refer to the specification sheet. (8.4V is recommended). Do not apply voltage higher than acceptable range, or over size propellers, which may cause damage to the motor.
2. Please kindly pay attention to the force of tightening the nut, for PM1306 motor, the force should be ≦5 kgf . cm. Higher force may cause the propeller adapter thread to break.
3. Different size of mounting screws for different thickness of motor mount or multirotor frame arm:
   M2*4mm for motor mount or multirotor frame arm of over 1.5mm
   M2*6mm for motor mount or multirotor frame arm of over 3.5mm
   ※ Long screws may cut the wires wound on the stator, and cause damage to the motor.
4. When connecting the motor to the speed controller (ESC), be sure to follow the instruction manual supplied with the speed controller. Never connect the motor directly to the batteries. Remove all the rotating parts such as the propeller and propeller adapter assembly and possible interfering parts with motor rotating part before carrying motor settings via speed controller (ESC)
5. Please do not pull or make any change to the motor wires, which may cause unrepairable damage to the motor.
6. The motor is not waterproof. Never operate it under the high humid or water contacting circumstances.
7. Keep the motor away from iron powder, dust or magnetic stuffs as they might be absorbed and cause damage to the motor.

■ Product Features :

Motor Type	Framework	Weight (G)	KV (RPM/V)	No-load Current 8.4V (A)	No.of cells	Propeller
PM1306	9N12P	13	2800	0.5	2S LiPo	≦ GWS 4540 propeller

■ External Size Picture :



■ Product Testing Recording Sheet :

Motor Type	Voltage(V)	Propeller	Current (A)	Thrust (G)	Power (W)	Efficient (G/W)
PM1306-2800KV	7.4	GWS 4040	3.8	90	28.1	3.20
		GWS 4530	3.5	120	25.9	4.60
		GWS 4540	3.9	130	28.9	4.50