FPV motor 2808-1100KV

User manual

PILOTIX™

2026

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1. Product overview



Fig.1. Fpv motor 2808-1100KV

The Pilotix 2808-1100KV is designed for pilots who prioritize responsive power delivery and smooth, efficient operation. Optimized for 7-inch propellers on 6S LiPo setups, this motor is the perfect choice for freestyle flying and cinematic FPV builds.

2. Technical Specifications

For detailed technical specifications, precise dimensions, and full thrust test results (Thrust Chart), please refer to the Official Datasheet available on our website.

3. Installation Guide

Mounting Pattern

The motor features a 19×19mm mounting pattern using M3 screw holes. M3×9mm (×4) and M3×12mm (×4) mounting screws are included.

Proper Tightening Technique (Cross-Pattern)

To ensure even pressure distribution and prevent mechanical stress on the motor base or the frame arm, always tighten the mounting screws in a cross-pattern (diagonal order).

1. Insert all 4 screws loosely.
2. Tighten one screw halfway.
3. Move to the screw diagonally opposite and tighten it halfway.
4. Repeat for the remaining two screws.
5. Finally, fully torque them down in the same diagonal sequence.

CRITICAL WARNING: Check your screw length! Ensure that the mounting screws do not reach or touch the motor windings. Even slight contact will cause a short circuit, leading to the immediate destruction of both the motor and your ESC.

Propeller Mounting

- Type: Traditional 5 mm Shaft (Nut-fixed).
- Prop Nut: Ensure the nylon-insert locknut is fully engaged on the shaft threads. Do not over-tighten to the point of crushing the propeller hub, but ensure there is zero "play" or movement.

4. Wiring and Setup

Connection: Connect the motor's MR30-M connector to the matching connector on your ESC (Electronic Speed Controller).

Direction Check: Power up the quad (always use a Smoke Stopper for the first plug-in) and check the rotation in Betaflight Configurator.

Software Configuration: If the motor spins in the wrong direction, change the "Motor Direction" setting in firmware.

5. Safety & Maintenance

Pre-flight: Check the tightness of both motor and propeller screws before every session.

Cleaning: If you land in dirt or sand, use compressed air to blow out the motor bell. Avoid flying with debris inside, as it will damage the magnets and wire coating.

Bearings: Replace the motor or bearings if you notice "grittiness" or excessive play.

Temperature: If motors are too hot to touch (> 80°C) after a flight, land immediately and check your PID/Filter settings or mechanical issues.

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