AEQ AE002

AEQ Solar Powered Fan with Battery and Timer (Model AE002) User Manual

Model: AE002

1. Introduction

Thank you for purchasing the AEQ Solar Powered Fan. This fan is designed to provide efficient ventilation for various outdoor structures such as chicken coops, greenhouses, sheds, and pet houses. Featuring a 15W solar panel, a built-in 6000mAh battery for day and night operation, and a convenient timer function, this product offers a reliable and eco-friendly solution for air circulation. Please read this manual thoroughly before installation and operation to ensure proper use and longevity of your fan.

2. Product Features

- **15W Solar Panel:** High-efficiency solar panel for optimal energy conversion.
- **6000mAh Built-in Battery:** Enables continuous operation day and night, even on cloudy days.
- **3/6 Hour Timer Function:** Allows setting the fan to run for specific durations at night.
- **IP65 Waterproof Rating:** Durable construction suitable for outdoor use in various weather conditions.
- **Dual Metal Mesh Protection:** Front and back metal grilles prevent accidental contact with fan blades.
- **Low Noise Operation:** Operates at approximately 35dB, ensuring minimal disturbance.
- **Easy Installation:** No complex wiring required, designed for simple wall mounting.

3. Safety Information

- Ensure the solar panel is installed in a sunny, unobstructed area for maximum charging efficiency.
- Do not expose the battery to fire or extreme heat to prevent explosion.
- Keep the solar panel clean to maintain optimal performance.

- Avoid touching the fan blades when the fan is operating. The protective mesh is designed to prevent this, but caution is advised.
- This product is designed for ventilation purposes. Do not use it for any other unintended applications.
- If any issues arise during use, contact customer support immediately.

4. Package Contents

Verify that all components are present in your package:

- Solar Fan Unit (with integrated battery)
- 15W Solar Panel
- 16.4 ft (5m) Connection Cable
- Mounting Screws and Bolts
- User Manual (this document)

Image: Main components of the solar fan system.

5. Specifications

Solar Power	15W
Battery Capacity	6000mAh (3.7V)
Output Power	2W
Fan Speed	2000 RPM
Waterproof Rating	IP65
Noise Level	Max 35dB
Wire Length	16.4 ft (5m)
Solar Panel Dimensions	13.7 x 11.4 inches
Fan Unit Dimensions	11.7 x 7 inches

Image: Dimensions of the solar panel and fan unit.

6. Installation

Before installation, ensure the fan is working by pressing the ON/OFF button. Charge the solar panel for 5-

6 hours under direct sunlight before initial use.

1. **Prepare the Mounting Location:** Choose a desired location for the fan unit. Mark a rectangular opening of approximately 9.5 inches by 5.8 inches for the fan.
2. **Mount the Fan Unit:** Cut the marked opening. Place the fan unit into the hole and secure it with 4 screws.
3. **Install the Solar Panel:** Select a sunny, unobstructed area for the solar panel. Drill 2 suitable holes and insert the expansion hinges. Fix the solar panel bracket with screws.
4. **Adjust Solar Panel Angle:** Put the two screws through the holes on the side of the solar panel and then through the holes on both sides of the bracket. Adjust the angle of the solar panel for optimal sun exposure and tighten the nuts separately.
5. **Connect Wiring:** Connect the wire plugs from the solar panel to the fan unit and tighten the nuts to ensure a secure, waterproof connection.

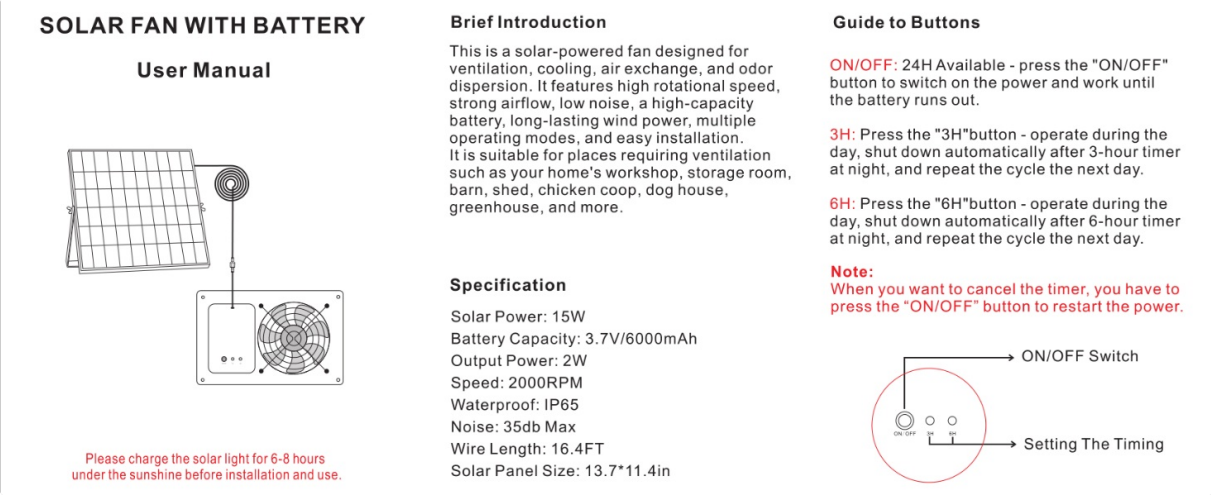

Image: Detailed installation steps.

7. Operation

The AEQ Solar Powered Fan is designed for simple operation with an ON/OFF switch and timer buttons.

- **Power On/Off:** Press the **ON/OFF** button to switch the fan on or off. When turned on, the fan will operate continuously until the battery runs out or it is manually turned off.
- **Daytime Operation:** During the day, the fan will run directly from solar power and simultaneously charge the internal battery.
- **Nighttime Operation:** At night or on cloudy days, the fan will draw power from the built-in 6000mAh battery.

Image: Fan operation during day and night.

8. Timer Function

The timer function is specifically designed for nighttime use to conserve battery life and control ventilation duration.

- **Activating the Timer:** The timer function can only be activated when it is dark. Press the**3H** button for a 3-hour timer or the **6H** button for a 6-hour timer.
- **Timer Operation:** Once activated, the fan will run for the selected duration (3 or 6 hours) and then automatically shut down. It will repeat this cycle the next day if the timer is still set.
- **Canceling the Timer:** To cancel the timer function, press the**ON/OFF** button to restart the power cycle.

Image: Timer buttons on the fan unit.

9. Maintenance

Regular maintenance ensures optimal performance and extends the lifespan of your solar fan.

- **Clean Solar Panel:** Periodically wipe the surface of the solar panel with a soft, damp cloth to remove dust, dirt, or debris. A clean panel ensures maximum sunlight absorption and charging efficiency.
- **Inspect Fan Blades:** Occasionally check the fan blades for any obstructions or buildup. Gently clean if necessary, ensuring the fan is turned off before inspection.
- **Check Connections:** Ensure all wire connections between the solar panel and the fan unit remain secure and free from corrosion.
- **Battery Life:** The battery is designed for long-term use (more than 5 years). No user maintenance is required for the internal battery.

10. Troubleshooting

Problem	Possible Cause	Solution

Fan not working during the day	Solar panel not receiving direct sunlight; dirty solar panel; loose connection.	Ensure solar panel is in direct sunlight and unobstructed. Clean the solar panel surface. Check all wire connections.
Fan not working at night	Insufficient battery charge; timer not set or expired; loose connection.	Ensure solar panel received adequate sunlight during the day to charge the battery. Check if the timer is active or has expired. Press ON/OFF to restart. Check connections.
Fan runs intermittently	Low battery charge; inconsistent solar input; faulty connection.	Allow the battery to fully charge under direct sunlight. Verify stable solar panel placement and clean surface. Inspect wire connections for looseness.
Timer function not working	Attempting to set timer during daylight; incorrect button press.	The timer function only works when it is dark. Ensure you are pressing the 3H or 6H button firmly. To cancel, press ON/OFF.

11. Warranty and Support

AEQ stands behind the quality of its products. We are fully responsible for the product and customer satisfaction. If you encounter any problems with your solar fan during use, please contact the seller directly through your purchase platform. Our dedicated after-sales team will address your concerns as soon as possible.
Please refer to your purchase documentation for specific warranty terms and conditions.