

Aoleaby BYQ 006

Aoleaby Toroidal Transformer Instruction Manual

MODEL: BYQ 006 220V

1. Introduction

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your Aoleaby Toroidal Transformer, Model BYQ 006 220V. This transformer is designed to provide stable and efficient power conversion for various electronic applications, particularly amplifier and preamp stages. It features a magnetic core with high magnetic permeability and low coercivity, pure copper coils for high current supply, stable voltage output, reduced noise, low temperature rise, and a long service life.

2. Safety Information

- Always disconnect power before installation, wiring, or maintenance.
- Ensure that the input voltage matches the transformer's specified input (AC 220V for this model). Connecting to an incorrect voltage can cause damage or injury.
- All wiring should be performed by a qualified technician in accordance with local electrical codes.
- Ensure proper insulation for all connections to prevent short circuits and electrical hazards.
- Do not operate the transformer in wet or damp conditions.
- Avoid overloading the transformer beyond its rated 200W capacity.
- Keep the transformer away from flammable materials.

3. Product Overview

The Aoleaby Toroidal Transformer is a compact and efficient power supply component. It consists of a circular core wound with copper wire, encased in insulation, and mounted on a metal base plate for secure installation. Various colored wires extend from the windings for input and output connections.



This image shows the Aoleaby Toroidal Transformer, model BYQ 006 220V. It features a circular, copper-wound core with a central mounting bolt and a black cover. Various colored wires (red, yellow, blue, black, white) extend from the windings, indicating input and output connections. The transformer is mounted on a square metal base plate with pre-drilled holes for installation.

Key Features:

- High magnetic permeability and low coercivity core.
- Pure copper coils for efficient power transfer.
- High current supply and stable voltage output.
- Low noise operation.
- Low temperature rise during operation.
- Long service life.

4. Setup and Installation

4.1 Mounting

The transformer comes with a pre-attached metal base plate. Securely mount the transformer to a stable, non-conductive surface using appropriate screws through the pre-drilled holes on the base plate. Ensure adequate ventilation around the transformer to prevent overheating.

4.2 Wiring Connections

Carefully identify each wire before making connections. Refer to the label on the transformer for specific wire color coding if available. The general wiring scheme is as follows:

- **Input Voltage (AC 220V):** Connect the main AC 220V power supply to the designated input wires. These are typically thicker wires and may be labeled or color-coded (e.g., red/black for mains).
- **Output Voltage (AC 28V x 2):** These dual 28V outputs are primarily intended for the power amplifier stage. Connect them to the amplifier's power input terminals.
- **Output Voltage (AC 12V x 2):** These dual 12V outputs are suitable for preamp, tone control, or other low-voltage auxiliary circuits.
- **Output Voltage (AC 12V x 1):** This single 12V output is typically used for control circuits, protection circuits, or other single-voltage requirements.

Important: Double-check all connections for correctness and tightness. Incorrect wiring can lead to damage to the transformer or connected equipment, and poses a safety risk. Ensure all exposed wire ends are properly insulated.

5. Operating Instructions

Once the transformer is securely mounted and all wiring connections are verified as correct and safe:

1. Ensure all connected devices are ready to receive power.
2. Apply the specified AC 220V input power to the transformer.
3. The transformer will begin supplying the specified AC output voltages to the connected circuits.
4. Monitor the transformer and connected equipment for any unusual sounds, smells, or excessive heat during initial operation. If any abnormalities are detected, immediately disconnect power and investigate the cause.

6. Maintenance

The Aoleaby Toroidal Transformer is designed for long-term, reliable operation with minimal maintenance. However, periodic checks can help ensure optimal performance and longevity:

- **Cleaning:** Keep the transformer clean and free from dust and debris. Use a dry, soft cloth for cleaning. Do not use liquid cleaners.
- **Connections:** Periodically inspect all wiring connections to ensure they remain tight and secure. Loose connections can lead to poor performance or overheating.
- **Environment:** Ensure the operating environment remains within specified temperature and humidity ranges. Avoid exposing the transformer to excessive moisture or corrosive substances.
- **Overload Prevention:** Do not exceed the transformer's rated power output of 200W. Consistent overloading will reduce its lifespan and can lead to failure.

There are no user-serviceable parts inside the transformer. Do not attempt to open or repair the unit yourself.

7. Troubleshooting

If you encounter issues with your transformer, consult the following troubleshooting guide:

Problem	Possible Cause	Solution
No output voltage	No input power; Loose input connections; Internal fault.	Check AC mains supply; Verify input wiring; If problem persists, contact support.
Transformer overheating	Overload; Insufficient ventilation; Short circuit in connected load.	Reduce load; Ensure proper airflow; Check connected circuits for shorts.
Unusual humming or noise	Loose mounting; Overload; DC component in AC mains.	Tighten mounting bolts; Reduce load; Consider a DC blocker if mains DC is suspected.
Output voltage is incorrect	Incorrect input voltage; Significant load variation; Internal fault.	Verify input voltage; Ensure load is within specifications; Contact support if problem persists.

If you are unable to resolve an issue using this guide, please contact Aoleaby customer support for assistance.

8. Specifications

Feature	Specification
Model	BYQ 006
Input Voltage	AC 220V
Output Voltage 1	AC 28V x 2 (Dual 28V for power amplifier stage)
Output Voltage 2	AC 12V x 2 (Dual 12V for preamp, tone, etc.)
Output Voltage 3	AC 12V x 1 (Single 12V for control and protection)
Total Power	200W
Weight	Approximately 1.34 kg (1340 Grams)
Core Material	High magnetic permeability, low coercivity
Coil Material	Pure Copper

9. Warranty and Support

For warranty information and technical support, please refer to the documentation provided with your purchase or contact the seller directly. Keep your purchase receipt as proof of purchase. For any inquiries or assistance, please reach out to Aoleaby customer service.

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