Saved from manuals.plus.
Open the live page for links to other documents and user manuals.

ETURBEV ETURBEV 18.5KW 3P 220V

ETURBEV Inverter for Pump 18.5KW 3P 220V - Instruction Manual

Model: ETURBEV 18.5KW 3P 220V

1. Introduction

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your ETURBEV Inverter for Pump. This device is designed to provide constant pressure water supply by controlling the speed of a three-phase 220V pump motor. Please read this manual thoroughly before installation and operation to ensure proper functionality and to prevent damage or injury.

2. Safety Information

WARNING: Failure to follow these safety instructions may result in serious injury, death, or equipment damage.

- Read the user's manual completely before installing or operating the inverter.
- Do not open the cover while connecting power supply.
- Wait at least 5 minutes after disconnecting power supply before opening the cover to allow capacitors to discharge. This prevents risk of electric shock.
- Ensure proper earth (ground) connection for safety.
- Only qualified personnel should perform installation, wiring, and maintenance.
- Verify that the input voltage matches the inverter's specifications (Three-phase 220V).
- Protect the inverter from moisture, dust, direct sunlight, and corrosive gases.



Figure 2.1: Front view of the ETURBEV Inverter, showing the control panel and a warning label regarding safe handling. The warning advises reading the manual, not opening the cover with power connected, and waiting 5 minutes after disconnection.

3. Product Components and Features

The ETURBEV Inverter for Pump is a robust unit designed for industrial and residential constant pressure water supply applications. Key components include:

- **Control Panel:** Features a digital display, function buttons, and a rotary knob for parameter adjustment and monitoring.
- **Power Terminals:** Clearly labeled terminals for input power (R, S, T) and motor output (U, V, W).
- **Control Terminals:** For external control signals, pressure sensors, and communication (specific details would be in a full manual).
- **Cooling System:** Integrated fan and heatsink for thermal management.



Figure 3.1: Side view of the ETURBEV Inverter, highlighting the sturdy enclosure and a warning label. This label reiterates the risk of injury and electric shock, the need to wait 10 minutes for capacitor discharge, reading the manual, and ensuring proper earth connection.

4. Setup and Installation

Proper installation is critical for the inverter's performance and safety. Follow these steps carefully:

1. **Mounting:** Select a dry, well-ventilated location, free from vibration and direct heat sources. Mount the inverter vertically on a non-flammable surface, ensuring adequate clearance for cooling airflow.
2. **Power Wiring (Input):**
    - Ensure main power is disconnected at the source.
    - Connect the three-phase 220V AC power supply to the R, S, T input terminals of the inverter. Use

appropriate gauge wiring for the 18.5KW rating.
    - Connect the protective earth (ground) wire to the designated ground terminal. This is crucial for safety.
3. **Motor Wiring (Output):**
    - Connect the three-phase pump motor wires to the U, V, W output terminals of the inverter.
    - Ensure correct phase sequence for motor rotation. If the motor rotates in the wrong direction, swap any two of the U, V, W connections.
4. **Control Wiring (Optional):** Connect pressure sensors, external start/stop signals, or communication cables to the control terminals as per your system requirements. Refer to the detailed wiring diagram in the full product manual for specific terminal assignments.
5. **Initial Check:** Before applying power, double-check all wiring connections for tightness and correctness. Ensure no loose strands or short circuits.



Figure 4.1: Internal view of the ETURBEV Inverter with the cover open, revealing the main power and motor wiring terminals. Labels for R, S, T (Power Input), OPTION (Optional connections), and U, V, W (Motor Output) are visible, along with a warning label.

5. Operating Instructions

Once installed, the inverter can be operated as follows:

1. **Power On:** Apply main power to the inverter. The digital display on the control panel should illuminate.
2. **Initial Parameter Setting:** Before first use, it may be necessary to set basic parameters such as motor rated power, frequency, and the desired constant pressure setpoint. Refer to the detailed programming guide in the full manual for specific parameter codes and adjustment procedures using the control panel buttons and rotary knob.
3. **Start/Stop:**
    - Press the **RUN** button (often green) on the control panel to start the pump.
    - Press the **STOP** button (often red) to stop the pump.
4. **Monitoring:** The digital display typically shows real-time operating parameters such as output frequency, output current, output voltage, and pressure. Use the navigation buttons to cycle through these displays.
5. **Constant Pressure Mode:** The inverter will automatically adjust the pump motor speed to maintain the set pressure value, optimizing energy consumption and ensuring stable water supply.

6. Maintenance

Regular maintenance ensures the longevity and reliable operation of your inverter.

- **Cleaning:** Periodically clean the exterior of the inverter and ensure cooling vents are free from dust and debris. Use a soft, dry cloth. Do not use liquid cleaners.
- **Inspection:** Annually inspect all wiring connections for tightness. Check for any signs of overheating, discoloration, or damage to cables and terminals.
- **Environment:** Ensure the operating environment remains within specified temperature and humidity ranges.
- **Capacitor Discharge:** Always wait at least 5 minutes after disconnecting power before performing any internal maintenance to allow capacitors to fully discharge.

7. Troubleshooting

This section provides solutions to common issues. For complex problems, contact qualified service personnel.

Problem	Possible Cause	Solution
Inverter does not power on.	No input power; Blown fuse; Loose wiring.	Check main power supply; Inspect fuses; Verify all input power connections.
Motor does not start.	Incorrect parameters; Motor wiring error; External stop command active.	Verify motor parameters; Check motor wiring (U, V, W); Ensure no external stop signal is active.
Inverter displays an error code.	Overcurrent, Overvoltage, Undervoltage, Overheat, etc.	Refer to the full manual's error code section for specific meanings and corrective actions. Address the underlying cause (e.g., motor overload, unstable power).
Pump pressure is unstable.	Incorrect pressure sensor calibration; Leak in water system; Inverter parameters not optimized.	Calibrate pressure sensor; Check for and repair leaks; Adjust PID parameters in the inverter settings.

8. Specifications

Technical specifications for the ETURBEV 18.5KW 3P 220V Inverter for Pump:

- **Model:** ETURBEV 18.5KW 3P 220V
- **Input Voltage:** Three-phase 220V AC
- **Output Voltage:** Three-phase 0-220V AC
- **Rated Power:** 18.5 KW
- **Control Method:** Vector control, V/F control for constant pressure water supply
- **Product Dimensions:** 0.39 x 0.39 x 0.39 inches (Note: This dimension seems incorrect for an 18.5KW inverter, likely a placeholder from product data. Actual dimensions would be larger.)
- **Item Weight:** 1.76 ounces (Note: This weight seems incorrect for an 18.5KW inverter, likely a placeholder from product data. Actual weight would be significantly higher.)
- **Operating Temperature:** -10°C to 40°C (typical, refer to full manual)
- **Humidity:** <90% RH, non-condensing

9. Warranty and Support

For warranty information and technical support, please refer to the documentation provided with your purchase or contact ETURBEV customer service. Keep your purchase receipt as proof of purchase for warranty claims.
Manufacturer: ETURBEV
ASIN: B0F9SV6B6R

© 2026 ETURBEV. All rights reserved. Information in this manual is subject to change without notice.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

Open the live page

https://manuals.plus/asin/B0F9SV6B6R

More documents and user manuals: **https://manuals.plus/**