

KEYAYEYA A025

KEYAYEYA JSCC Inverter A025 Frequency Converter User Manual

Model: A025 | Input: 1-Phase 220V

1. SAFETY INFORMATION

Read all instructions carefully before installation, operation, or maintenance of the JSCC Inverter A025. Failure to follow these instructions may result in personal injury or equipment damage.

- **Electrical Hazard:** This device operates with high voltage. Ensure power is disconnected before performing any wiring or maintenance. Only qualified personnel should perform electrical work.
- **Grounding:** Properly ground the inverter to prevent electric shock.
- **Environment:** Install the inverter in a clean, dry, and well-ventilated area, free from corrosive gases, flammable materials, and excessive dust.
- **Overload Protection:** Do not exceed the rated current or power of the inverter and connected motor.
- **Emergency Stop:** Ensure an accessible emergency stop mechanism is in place for the connected system.

2. PRODUCT OVERVIEW

The KEYAYEYA JSCC Inverter Model A025 is a frequency converter designed for controlling the speed of AC motors. It accepts a 1-phase, 220V input and provides variable frequency output to the motor, allowing for precise speed control in various industrial applications.



Figure 1: Front view of the KEYAYEYA JSCC Inverter A025. This image shows the compact design and typical control panel layout of the frequency converter.

This inverter is compatible with JSCC systems and offers reliable performance for motor control tasks.

3. SETUP

3.1 Unpacking and Inspection

- Carefully remove the inverter from its packaging.
- Inspect the unit for any signs of physical damage during transit. If damage is found, contact your supplier immediately.
- Verify that all components listed in the packing list are present.

3.2 Mounting

Mount the inverter vertically on a stable, non-flammable surface. Ensure adequate clearance around the unit for proper ventilation and heat dissipation. Avoid mounting in direct sunlight or near heat sources.

3.3 Wiring

WARNING: Ensure power is OFF before wiring.

- **Power Input (L, N):** Connect the 1-phase 220V AC power supply to the designated input terminals.
- **Grounding (PE):** Connect the ground terminal to a reliable earth ground.
- **Motor Output (U, V, W):** Connect the three-phase motor leads to the inverter's output terminals. Ensure correct phase sequence if required by the motor.
- **Control Terminals:** Refer to the detailed wiring diagram in the complete technical manual for connecting external control signals (e.g., start/stop, speed reference, fault indicators).

Note: Use appropriate wire gauges for all connections to prevent overheating.

3.4 Initial Power-Up

- Double-check all wiring connections for correctness and security.
- Apply power to the inverter. The display should illuminate.

- Observe for any error codes or unusual behavior. If issues arise, refer to the Troubleshooting section.

4. OPERATING INSTRUCTIONS

4.1 Basic Operation

- **Start:** Press the **RUN** button on the control panel or activate the corresponding external control input.
- **Stop:** Press the **STOP** button or activate the corresponding external control input.
- **Frequency Adjustment:** Use the UP/DOWN arrow keys or the potentiometer (if equipped) on the control panel to adjust the output frequency, thereby controlling motor speed.

4.2 Parameter Settings

The inverter has various programmable parameters to customize its operation for specific applications (e.g., acceleration/deceleration times, motor parameters, control modes). Accessing and modifying these parameters typically involves navigating through the control panel menu.

Refer to the comprehensive programming manual for detailed instructions on parameter settings. Incorrect parameter settings can lead to improper operation or damage.

5. MAINTENANCE

5.1 Regular Inspection

- Periodically check for loose connections, damaged wiring, or abnormal noises/vibrations.
- Inspect cooling fans for proper operation and ensure air vents are not obstructed.
- Check for signs of overheating or discoloration on components.

5.2 Cleaning

WARNING: Disconnect power before cleaning.

- Use a soft, dry cloth to wipe the exterior of the inverter.
- For internal cleaning (if necessary), use compressed air to remove dust from heat sinks and circuit boards. Avoid using liquids or solvents.

5.3 Storage

If storing the inverter for an extended period, ensure it is kept in a dry, dust-free environment within the specified temperature and humidity ranges.

6. TROUBLESHOOTING

This section provides general guidance for common issues. For detailed error codes and advanced troubleshooting, consult the full technical manual.

Problem	Possible Cause	Solution
Inverter does not power on	No input power; Blown fuse; Loose wiring	Check power supply; Inspect/replace fuse; Verify all connections
Motor does not run	Incorrect wiring; Motor parameters not set; Emergency stop active; Overload	Check motor wiring; Configure motor parameters; Release E-stop; Reduce load

Problem	Possible Cause	Solution
Overcurrent/Overload fault	Motor overloaded; Short circuit in motor/wiring; Incorrect acceleration time	Reduce load; Check motor/wiring; Increase acceleration time parameter
Overvoltage/Undervoltage fault	Input voltage fluctuation; Incorrect deceleration time	Check input power supply; Increase deceleration time parameter

If the problem persists after attempting these solutions, contact technical support.

7. SPECIFICATIONS

Feature	Detail
Model	A025
Input Voltage	1-Phase 220V
Compatible with	JSCC Inverter Systems
Package Dimensions	1 x 1 x 1 inches
Item Weight	4.4 pounds
Manufacturer	Original Manufacturer

8. WARRANTY AND SUPPORT

This product is covered by a **one-year limited warranty** from the date of purchase. This warranty covers manufacturing defects under normal use conditions.

For any questions regarding your model, technical assistance, or warranty claims, please contact the seller directly. Provide your purchase details and model number (A025) for efficient support.

Contact information for the seller can typically be found on your purchase receipt or the platform where the product was acquired.