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> [Tbest 63A 4P Automatic Transfer Switch User Manual](#)

## Tbest Tbest946gkyex3c

# Tbest 63A 4P Automatic Transfer Switch

Model: Tbest946gkyex3c

User Manual

## 1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your Tbest 63A 4P Automatic Transfer Switch (ATS). This device is designed to automatically switch between a normal power source and a backup power source, ensuring continuous power supply to critical loads. Please read this manual thoroughly before installation and use.

## 2. SAFETY INFORMATION

**WARNING: Risk of Electric Shock. Installation and servicing must be performed by qualified personnel only.**

- Always disconnect all power sources before installing or servicing the switch.
- Ensure proper grounding to prevent electrical hazards.
- Verify all connections are secure and correctly wired according to local electrical codes.
- Do not operate the switch if it appears damaged or malfunctioning.
- Wear appropriate personal protective equipment (PPE) during installation and maintenance.

## 3. PRODUCT OVERVIEW

The Tbest 63A 4P Automatic Transfer Switch is a robust device designed for reliable power management. Key features include:

- **Single Motor Drive:** Ensures simple structure and stable conversion with minimal noise and impact.
- **Enhanced Mechanism:** Features an improved inhibition mechanism for quick closing and breaking, extending mechanical life.
- **Durable Construction:** Made from flame-retardant plastic, offering good insulation, high-temperature resistance, and protection against overload, undervoltage, short circuit, and phase failure.
- **Electrical Interlock Protection:** Guarantees reliable and non-interfering automatic switching.
- **Wide Application:** Suitable for critical power supply needs in fire protection systems, ports, hospitals, shopping malls, banks, and industrial facilities.



Figure 1: Front view of the Tbest 63A 4P Automatic Transfer Switch, showing the main controls and terminal blocks.

## 4. SETUP AND INSTALLATION

Follow these general steps for installing the automatic transfer switch. Consult a qualified electrician for specific wiring diagrams and local code compliance.

1. **Mounting:** Securely mount the ATS in a suitable enclosure or panel, ensuring adequate ventilation and clearance for wiring.
2. **Power Disconnection:** Ensure all power sources (normal and backup) are completely disconnected and locked out before proceeding with wiring.
3. **Normal Power Connection:** Connect the normal power source (utility) to the designated 'Normal Power' terminals (labeled 'N' on the device). Ensure correct phase and neutral connections.
4. **Backup Power Connection:** Connect the backup power source (e.g., generator) to the designated 'Backup Power' terminals (labeled 'R' on the device). Ensure correct phase and neutral connections.
5. **Load Connection:** Connect the electrical load (circuits to be powered) to the 'Load' terminals of the ATS.
6. **Control Wiring:** Connect any necessary control wiring for automatic operation, if applicable.
7. **Verification:** Double-check all wiring connections for tightness and correctness.



Figure 2: Angled view of the ATS, highlighting the 'Normal Power' and 'Backup Power' terminal blocks for wiring connections.

## 5. OPERATING INSTRUCTIONS

The Tbest Automatic Transfer Switch offers both automatic and manual operation modes.

### 5.1 Mode Selection

The switch features a selector for operating mode:

- **Auto Mode:** When the selector is set to 'Auto', the switch will automatically transfer the load between

the normal and backup power sources based on power availability. If normal power fails, it will switch to backup. When normal power returns, it will switch back.

- **Manual Mode:** When the selector is set to 'Manual', the transfer switch will remain in its current position until manually operated.

## 5.2 Manual Transfer

In 'Manual' mode, or for testing purposes, the large blue 'Direction' handle can be used to manually switch between power sources:

- Rotate the handle towards 'N' (Normal power) to connect the load to the normal power source.
- Rotate the handle towards 'R' (Backup power) to connect the load to the backup power source.



Figure 3: Close-up view of the 'Automatic Transfer Switch' selector (Auto/Manual) and the 'Direction' handle for manual operation.

## 6. MAINTENANCE

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

- **Visual Inspection:** Periodically inspect the switch for any signs of damage, loose connections, or overheating.
- **Cleaning:** Keep the switch free from dust and debris. Use a dry, non-conductive cloth for cleaning.
- **Connection Check:** Annually, or as needed, verify that all electrical connections are tight and secure.
- **Functional Test:** Periodically test the automatic transfer function by simulating a normal power outage (if safe to do so) to ensure it switches correctly to backup power and back.

## 7. TROUBLESHOOTING

If you encounter issues with your ATS, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
Switch does not transfer automatically.	Selector in 'Manual' mode; no power from backup source; control wiring issue.	Set selector to 'Auto'. Check backup power source. Inspect control wiring.
No power to load.	No power from normal or backup source; tripped breaker; loose connections.	Check both power sources. Reset breakers. Verify all wiring connections.
Overheating or unusual noises.	Overload; loose connections; internal fault.	Reduce load. Tighten connections. Disconnect power and contact qualified personnel.

If the problem persists after attempting these solutions, contact a qualified electrician or Tbest customer support.

## 8. SPECIFICATIONS

Feature	Specification
Model Number	Tbest946gkyex3c
ASIN	B0F1D97DQB
Manufacturer	Tbest
Package Dimensions	9.06 x 5.91 x 5.12 inches
Item Weight	3.67 pounds

## 9. WARRANTY AND SUPPORT

For warranty information or technical support, please contact Tbest customer service through their official channels. Keep your purchase receipt and model number (Tbest946gkyex3c) handy for faster service. You can often find support contact details on the manufacturer's website or through the retailer where the product was purchased.