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› **TOMZN TOQ6-63PV Din Rail Automatic Transfer Switch User Manual**

## TOMZN TOQ6-63PV

# TOMZN TOQ6-63PV Din Rail Automatic Transfer Switch User Manual

Model: TOQ6-63PV (230V 63A)

## 1. INTRODUCTION

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This manual provides essential information for the safe and effective installation, operation, and maintenance of your TOMZN TOQ6-63PV Din Rail Automatic Transfer Switch. This device is designed to automatically switch between two power sources, such as city power and a PV (photovoltaic) grid-connected system, ensuring an uninterrupted power supply for critical loads. Please read this manual thoroughly before installation and operation.

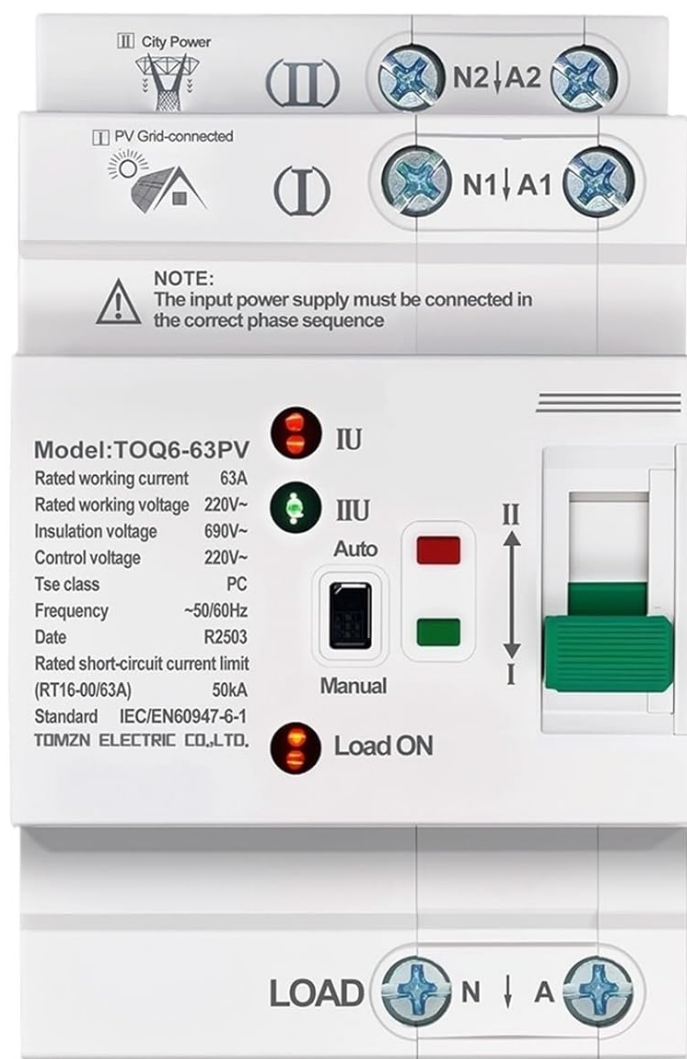


Figure 1: Front view of the TOMZN TOQ6-63PV Automatic Transfer Switch.

## 2. SAFETY INFORMATION

**WARNING:** Electrical shock hazard. Installation and maintenance should only be performed by qualified personnel. Failure to follow these instructions may result in serious injury or death.

- Always disconnect all power sources before installing or servicing the device.
- Ensure proper grounding according to local electrical codes.
- Verify that the input power supply is connected in the correct phase sequence. Incorrect phasing can damage the device or connected equipment.
- Do not operate the switch if it appears damaged.
- Use appropriate personal protective equipment (PPE) during installation.

## 3. PRODUCT FEATURES

The TOMZN TOQ6-63PV Automatic Transfer Switch offers robust performance and safety features:

- **Overload and Short-Circuit Protection:** Designed to prevent damage to connected systems from electrical faults.
- **Durable Construction:** Made with insulating, flame-retardant, and UV-resistant materials for long-term reliability, especially in outdoor or solar installations.
- **Secure Connections:** Features screw-type terminals to ensure stable and secure electrical connections.
- **Versatile Application:** Suitable for use with solar inverters, charge controllers, and battery banks, providing seamless power transfer.
- **Automatic and Manual Operation:** Allows for flexible control over power source selection.

## 4. SPECIFICATIONS

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Key technical specifications for the TOMZN TOQ6-63PV Automatic Transfer Switch:

Model Number	TOQ6-63PV
Rated Working Current	63A
Rated Working Voltage	220V~
Insulation Voltage	690V~
Control Voltage	220V~
Tse Class	PC
Frequency	~50/60Hz
Rated Short-Circuit Current Limit	50kA (RT16-00/63A)
Standard	IEC/EN60947-6-1
Manufacturer	TOMZN ELECTRIC CO.,LTD.
Dimensions (Approx.)	0.39 x 0.39 x 0.39 inches (Package)
Weight (Approx.)	3.53 ounces (Package)

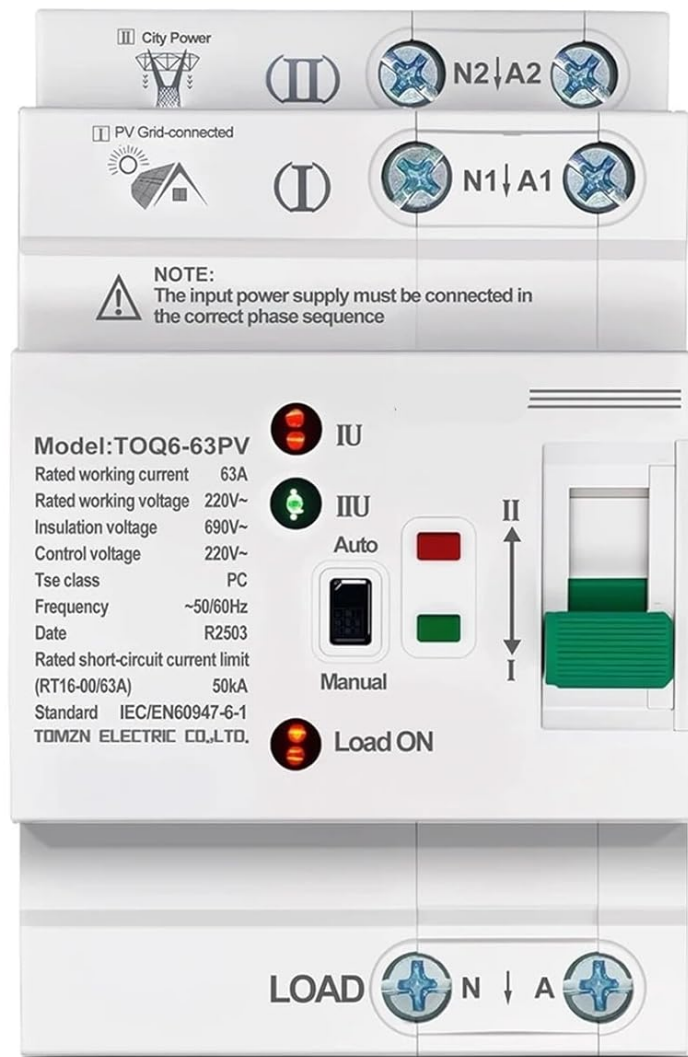


Figure 2: Detailed specifications visible on the device label.

## 5. INSTALLATION AND WIRING

The TOQ6-63PV is designed for Din Rail mounting. Follow these steps for safe and correct installation:

- Mounting:** Securely attach the device to a standard 35mm Din Rail within an appropriate electrical enclosure.
- Power Source 1 (City Power) Connection:** Connect the main utility power supply to the terminals labeled "City Power" (N2/A2). Ensure correct L (Live) and N (Neutral) connections.
- Power Source 2 (PV Grid-connected) Connection:** Connect the PV grid-connected power supply to the terminals labeled "PV Grid-connected" (N1/A1). Ensure correct L (Live) and N (Neutral) connections.
- Load Connection:** Connect the electrical load (devices to be powered) to the "LOAD" terminals at the bottom of the switch.
- Phase Sequence: IMPORTANT:** The input power supply must be connected in the correct phase sequence. Refer to the diagram on the device for guidance.
- Tighten Terminals:** Use a screwdriver to securely tighten all screw-type terminals to prevent loose connections and

potential arcing. Recommended torque: 2.5 N·m.



Figure 3: Angled view illustrating connection points.



Figure 4: Rear view with Din Rail mounting details.

## 6. OPERATION

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The TOQ6-63PV offers both automatic and manual operation modes.

### 6.1. Operating Modes

- **Auto Mode:** When the selector switch is set to "Auto", the device will automatically detect the presence and quality of both power sources (City Power and PV Grid-connected) and switch to the preferred or available source. Typically, it prioritizes one source (e.g., PV) and switches to the other (e.g., City Power) if the primary source fails or is out of specification.
- **Manual Mode:** When the selector switch is set to "Manual", you can manually select the desired power source using the toggle switch (I or II).
  - **Position I:** Selects Power Source 1 (PV Grid-connected).
  - **Position II:** Selects Power Source 2 (City Power).

### 6.2. Indicator Lights

- **IU (Red LED):** Indicates the status of Power Source 1 (PV Grid-connected). Lit when Power Source 1 is active.
- **IIU (Green LED):** Indicates the status of Power Source 2 (City Power). Lit when Power Source 2 is active.
- **Load ON (Red LED):** Indicates that power is being supplied to the load. Lit when the load is receiving power from either source.



Figure 5: Control switches and indicator lights.

## 7. MAINTENANCE

The TOMZN TOQ6-63PV is designed for minimal maintenance. However, periodic checks are recommended:

- **Visual Inspection:** Annually inspect the device for any signs of physical damage, discoloration, or loose connections.
- **Terminal Tightness:** Periodically check and re-tighten all terminal screws to ensure secure electrical contact.
- **Cleaning:** If necessary, gently clean the exterior of the device with a dry, soft cloth. Do not use liquids or abrasive cleaners.
- **Environmental Conditions:** Ensure the operating environment remains within specified temperature and humidity ranges to prolong device life.

## 8. TROUBLESHOOTING

If you encounter issues with your TOQ6-63PV, consider the following common troubleshooting steps:

- **No Power to Load:**
  - Check if both input power sources (City Power, PV Grid-connected) are active and their respective indicator lights (IU, IIU) are lit.
  - Ensure the device is in "Auto" mode or manually switched to an active source in "Manual" mode.
  - Verify all wiring connections are secure and correct.
  - Check for tripped circuit breakers upstream of the ATS.
- **Device Not Switching Automatically:**
  - Confirm the selector switch is firmly in the "Auto" position.
  - Check the status of both input power sources. The automatic transfer relies on the availability of both sources.
  - Ensure the control voltage (220V~) is present and stable.
- **Overheating/Unusual Odors:**
  - Immediately disconnect power to the device.
  - This indicates a serious fault. Do not attempt to operate the device. Contact a qualified electrician.

For issues not resolved by these steps, consult a qualified electrician or contact TOMZN customer support.


## 9. WARRANTY AND SUPPORT

This product is manufactured by TOMZN ELECTRIC CO.,LTD. For warranty information, technical support, or service inquiries, please refer to the documentation provided with your purchase or contact your local distributor. Keep your purchase receipt as proof of purchase for warranty claims.



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*Disclaimer: Information in this manual is subject to change without notice.*

### Related Documents - TOQ6-63PV

	<p><a href="#">TOMZN TOQ7e Series Wi-Fi Smart Automatic Transfer Switch Instruction Manual</a></p> <p>Comprehensive instruction manual for the TOMZN TOQ7e series Wi-Fi Smart Automatic Transfer Switch, detailing installation, operation, technical specifications, and remote control features for reliable power management.</p>
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[TOMZN TOQ7e Series Wi-Fi Smart Automatic Transfer Switch Instruction Manual](#)

Comprehensive instruction manual for the TOMZN TOQ7e series Wi-Fi Smart Automatic Transfer Switch, detailing installation, operation, technical specifications, and remote control features for reliable power management.



## HADEX L153B Surge Protection Device - EU Declaration of Conformity

EU Declaration of Conformity for the HADEx L153B surge protection device, model TOMZN  
TZG40-PV 800VDC, confirming compliance with relevant EU directives and standards.



DTS238-7: 3-Phase Wi-Fi Smart Energy Meter - HIKING TOMZN Technical Specification

Comprehensive technical datasheet for the HIKING TOMZN DTS238-7 DIN rail 3-phase Wi-Fi smart energy meter. Details specifications, features, communication protocols (RS485, Wi-Fi), app control, installation, and warranty information.