

Generac RXG16EZA3

Generac RXG16EZA3 16-Circuit 100 Amp Automatic Transfer Switch User Manual

Model: RXG16EZA3

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of the Generac RXG16EZA3 16-Circuit 100 Amp Automatic Transfer Switch. This unit is designed to seamlessly transfer power between utility and a Generac air-cooled standby generator, ensuring essential circuits in your home or building remain powered during outages. It features an integrated 16-space load center, making it ideal for applications where only specific circuits require backup power.

2. SAFETY INFORMATION

WARNING: Electrical shock hazard. Installation and service must be performed by a qualified, licensed electrician in accordance with all applicable electrical codes and standards. Failure to do so can result in serious injury or death.

- Always disconnect power from both the utility and the generator before performing any service or maintenance on the transfer switch.
- Ensure proper grounding of the transfer switch and all connected equipment.
- Do not operate the transfer switch if it is damaged or if any components are missing.
- Keep children and unauthorized personnel away from the transfer switch.

3. PRODUCT OVERVIEW

The Generac RXG16EZA3 Automatic Transfer Switch (ATS) is engineered for reliable and automatic power management. It is housed in a durable NEMA 3R aluminum enclosure, providing protection against various weather conditions for outdoor installation.

Key Features:

- **All-Weather Protection:** Housed in a durable aluminum NEMA 3R enclosure, designed to withstand various

weather conditions, ensuring reliable performance in any environment.

- **Heavy-Duty Contactors:** Equipped with a robust Generac contactor for reliable switching between utility power and generator power, providing seamless backup.
- **Ample Breaker Space:** Includes a 16-space breaker panel, offering sufficient capacity for customizing electrical circuits as needed.
- **Versatile Application:** Designed for optional standby systems, particularly useful when only a portion of a large main service requires generator backup.
- **Secure and Efficient Power Backup:** Ensures essential circuits receive reliable backup power during outages.



Figure 3.1: Generac RXG16EZA3 16-Circuit 100 Amp Automatic Transfer Switch, closed view.



Figure 3.2: Generac 16-Circuit Automatic Transfer Switch with integrated load center, showing internal breaker layout.

4. SETUP AND INSTALLATION

Generac strongly recommends that your new transfer switch be installed by a certified and licensed electrician. Incorrect installation can lead to electrical hazards, equipment damage, and void the product warranty.

Installation Steps (Overview for Qualified Personnel):

1. **Site Selection:** Choose a suitable outdoor location for the NEMA 3R enclosure, ensuring it is accessible for maintenance and adheres to local electrical codes.
2. **Mounting:** Securely mount the transfer switch to a stable surface.
3. **Wiring:** Connect the utility power, generator power, and load circuits to the appropriate terminals within the transfer switch. This involves careful routing and termination of electrical conductors.
4. **Breaker Installation:** Populate the 16-space breaker panel with appropriately sized circuit breakers for the essential circuits.
5. **Control Wiring:** Connect the necessary control wires between the transfer switch and the standby generator for automatic operation.
6. **Testing:** After installation, a qualified electrician must perform thorough testing to ensure correct operation and safety.



Figure 4.1: Front view of the Generac RXG16EZA3 ATS, illustrating external features for installation planning.

5. OPERATING INSTRUCTIONS

The Generac RXG16EZA3 Automatic Transfer Switch operates automatically in conjunction with a compatible Generac standby generator. No manual intervention is typically required during a power outage.

Automatic Operation:

1. **Utility Power Present:** Under normal conditions, the transfer switch connects your essential circuits to the utility power source.
2. **Utility Power Loss:** When the transfer switch detects a loss of utility power, it signals the standby generator to start.
3. **Generator Power Transfer:** Once the generator reaches its operating speed and voltage, the transfer switch automatically disconnects from utility power and connects your essential circuits to the generator power.
4. **Utility Power Restoration:** When utility power is restored, the transfer switch monitors the utility source for a stable return.

5. **Return to Utility:** After a pre-set delay, the transfer switch automatically disconnects from generator power and reconnects to utility power. It then signals the generator to cool down and shut off.



Figure 5.1: Diagram illustrating automatic power transfer from utility to a standby generator via the transfer switch.

6. MAINTENANCE

Regular maintenance ensures the longevity and reliable operation of your Generac Automatic Transfer Switch. All maintenance should be performed by qualified personnel.

Recommended Maintenance:

- **Annual Inspection:** Have a qualified electrician inspect the transfer switch annually. This includes checking all electrical connections for tightness, inspecting contactors for wear, and verifying the integrity of the enclosure.
- **Keep Clear:** Ensure the area around the transfer switch is kept clear of debris, vegetation, and anything that could obstruct ventilation or access.
- **Enclosure Integrity:** Periodically check the NEMA 3R enclosure for any signs of damage, corrosion, or compromised seals. Ensure the door is securely latched.
- **Breaker Check:** During annual inspection, verify that all circuit breakers are functioning correctly and are not tripped.

7. TROUBLESHOOTING

If you experience issues with your Generac RXG16EZA3 Automatic Transfer Switch, consult this section. For complex problems, contact a qualified electrician or Generac customer support.

Common Issues and Solutions:

- **No Power Transfer to Generator:**

- Ensure the generator is running and producing power.
- Check the control wiring between the ATS and the generator.
- Verify that the utility power is indeed absent.

- **Generator Runs but No Power to House:**

- Check for tripped circuit breakers within the ATS load center.
- Inspect the main contactor within the ATS for proper engagement.

- **Transfer Switch Does Not Return to Utility Power:**

- Verify that utility power has been fully restored and is stable.
- There may be a programmed delay for return to utility; wait for this period to elapse.

- **Unusual Noises or Odors:**

- Immediately disconnect all power sources (utility and generator).
- Contact a qualified electrician for inspection and repair. Do not attempt to operate the unit.

8. SPECIFICATIONS


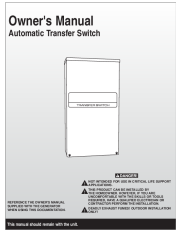


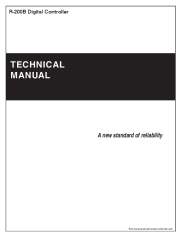
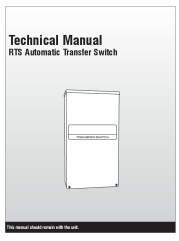
Specification	Detail
Brand	Generac
Model Number	RXG16EZA3
Current Rating	100 Amps
Circuit Breaker Type	Standard
Mounting Type	Panel Mount
Voltage	120V (Note: Transfer switches typically handle 120/240V split-phase systems)
Product Dimensions	27.2 x 26 x 26.5 inches
Item Weight	28.4 pounds
Enclosure Rating	NEMA 3R (Outdoor rated)
Integrated Load Center	16-space

9. WARRANTY AND SUPPORT

For specific warranty details, please refer to the warranty documentation included with your product or visit the official Generac website. Warranty terms typically cover defects in materials and workmanship for a specified period. For technical support, parts, or service inquiries, please contact Generac customer service directly. Have your model number (RXG16EZA3) and serial number ready when contacting support.

Generac Customer Support: Refer to your product packaging or the official Generac website for the most current contact information.

Related Documents - RXG16EZA3

	<p>Generac 100 Amp Automatic Transfer Switch/Load Center Installation Guide with Express Install Kit</p> <p>Comprehensive installation guide for Generac 100 Amp Automatic Transfer Switch/Load Center models, including the Express Install Kit. Learn how to safely install and connect your standby generator system, covering site preparation, wiring, and final connections.</p>
	<p>Owner's Manual: Automatic Transfer Switch</p> <p>Comprehensive guide for Generac Automatic Transfer Switch (ATS) covering installation, operation, safety, and system components for reliable power backup.</p>
	<p>Generac HS Type Automatic Transfer Switch Owner's Manual</p> <p>Comprehensive owner's manual for Generac HS Type Automatic Transfer Switches (ATS), models 005036-0 (100A) and 004945-1 (200A). Covers installation, operation, safety guidelines, electrical data, diagrams, and warranty information.</p>
	<p>Generac RXG10EZA1 50 Amp Automatic Transfer Switch Owner's Manual</p> <p>This manual provides comprehensive instructions for the installation, operation, safety, and maintenance of the Generac RXG10EZA1 50 Amp Automatic Transfer Switch. It covers essential safety warnings, product specifications, wiring diagrams, and operational procedures for reliable standby power.</p>
	<p>R-200B Digital Controller Technical Manual</p> <p>This technical manual provides detailed information and operating instructions for the R-200B Digital Controller, a key component for generator sets. It covers safety rules, general information, generator operation modes (manual, auto, exercise), system diagnostics, DIP switch settings, and connection diagrams for both ATS and GTS modes. The manual is essential for proper installation, operation, and maintenance of the R-200B controller with compatible generator units.</p>
	<p>Generac RTS Automatic Transfer Switch Technical Manual: Installation, Operation, and Safety Guide</p> <p>Comprehensive technical manual for Generac RTS Automatic Transfer Switches. Covers design, application, installation, operation, servicing, safety guidelines, voltage checks, generator testing, mounting dimensions, and warranty information.</p>

