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Generac 7291

Generac Guardian 26kW Home Standby Generator User Manual

Model: 7291

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation, installation, and maintenance of your Generac Guardian 26kW Home Standby Generator. Please read this manual thoroughly before attempting to install, operate, or service the unit. Retain this manual for future reference.

The Generac Guardian 26kW Home Standby Generator is designed to provide automatic backup power to your home during utility power outages. It operates on either natural gas or liquid propane (LP) fuel and is equipped with a 200 Amp automatic transfer switch for seamless power transition.



Figure 1.1: Generac Guardian 26kW Home Standby Generator with 200 Amp Transfer Switch.

2. SAFETY INFORMATION

WARNING: Improper installation, operation, or maintenance can result in serious injury or death. Always follow all safety precautions and instructions.

2.1 General Safety Precautions

- Read and understand all instructions in this manual before operating the generator.
- Installation must be performed by a qualified and licensed electrician and plumber, in accordance with all local and national electrical and plumbing codes.
- Ensure the generator is properly grounded to prevent electrical shock.
- Never operate the generator indoors or in enclosed spaces. Exhaust fumes contain carbon monoxide, which is a colorless, odorless, and deadly gas.
- Keep children and pets away from the generator during operation.
- Do not touch hot surfaces. The generator engine and exhaust system become very hot during operation and remain hot for some time after shutdown.
- Turn off the generator and disconnect the battery before performing any maintenance or service.

2.2 Fuel Safety

- This generator is designed to operate on natural gas or liquid propane (LP) only. Do not use gasoline or other fuels.
- Ensure all fuel connections are secure and free of leaks.

- Store LP tanks in a well-ventilated area, away from ignition sources.

3. PRODUCT OVERVIEW

The Generac Guardian 26kW Home Standby Generator (Model 7291) is a robust power solution featuring a durable all-aluminum enclosure and a powerful G-Force engine. It includes a 200 Amp automatic transfer switch for seamless integration with your home's electrical system.

3.1 Key Components

- **Generator Unit:** Houses the engine, alternator, and control panel.
- **Automatic Transfer Switch (ATS):** Automatically transfers power between utility and generator.
- **G-Force Engine:** Purpose-built for generator use, ensuring reliability and reduced maintenance.
- **Control Panel:** Provides operational status, diagnostic information, and control buttons.
- **Mobile Link Wi-Fi Connectivity:** Allows remote monitoring via a smartphone, tablet, or computer.



Power outages are unpredictable, inconvenient and disruptive to your life.

No lights **No refrigeration** **No heating or air conditioning** **No connectivity**

The image features four circular icons with crossed-out symbols: a lightbulb, a fish with steam, a thermometer, and a Wi-Fi signal. Each icon is accompanied by a line of text below it.

Figure 3.1: Internal view of the Generac G-Force Engine and Control Panel.



Figure 3.2: Front view of the Generac Guardian 26kW Home Standby Generator.

4. SETUP

Proper installation is crucial for the safe and efficient operation of your Generac Guardian generator. Generac strongly recommends that installation be performed by a certified and licensed electrician and plumber.

4.1 Site Selection and Preparation

- Choose a location that complies with all local codes and regulations regarding setbacks from buildings, windows, and property lines.
- Ensure the site is level and provides adequate clearance for maintenance and airflow.
- Prepare a stable base pad for the generator. The unit's design requires minimal ground preparation.

4.2 Electrical and Fuel Connections

- The 200 Amp Automatic Transfer Switch (ATS) must be installed between your utility meter and your home's main electrical panel.
- Connect the generator to your existing natural gas or LP fuel supply. Ensure all connections are leak-free and meet local gas codes.
- Wire the generator to the ATS according to the provided wiring diagrams and local electrical codes.
- Install a suitable battery (not included) for engine starting.



Figure 4.1: Schematic of generator connection to home electrical system.

5. OPERATING INSTRUCTIONS

Your Generac Guardian generator is designed for automatic operation. Once properly installed and configured, it will automatically detect power outages and restore power to your home.

5.1 Automatic Operation

1. Ensure the generator's control panel is set to **AUTO** mode. The green indicator light should be illuminated.
2. When utility power is lost, the Automatic Transfer Switch (ATS) will sense the outage.
3. The generator will automatically start and warm up.
4. Once the generator reaches proper voltage and frequency, the ATS will transfer your home's electrical load to the generator.
5. When utility power is restored, the ATS will transfer the load back to utility power.
6. The generator will cool down and then shut off automatically.



**Get automatic backup power
during outages caused by:**



Severe weather



Grid instability



Blackouts

Figure 5.1: Impact of a power outage on a home.



Power for your peace of mind.



Comfort



Safety



Security

Figure 5.2: Automatic backup power provided by the Generac generator.

5.2 Manual Operation

For testing or specific situations, the generator can be operated manually:

1. Press the **MANUAL** button on the control panel. The generator will start and run.
2. To stop the generator, press the **OFF** button.

5.3 Mobile Link Monitoring

The Mobile Link Wi-Fi connectivity allows you to monitor your generator's status from anywhere. Download the Mobile Link app and follow the in-app instructions to connect your generator.

6. MAINTENANCE

Regular maintenance ensures the longevity and reliable performance of your Generac Guardian generator. Refer to the maintenance schedule in the separate maintenance manual for detailed intervals.

6.1 Routine Checks

- **Weekly Exercise:** The generator is programmed to run a short exercise cycle weekly to ensure readiness. Verify this occurs.
- **Visual Inspection:** Regularly check for any visible damage, leaks, or obstructions around the unit.
- **Fuel Level:** For LP models, ensure adequate fuel supply.
- **Battery Condition:** Check battery terminals for corrosion and ensure the battery is charged.

6.2 Scheduled Maintenance

Annual maintenance by a certified Generac technician is highly recommended. This typically includes:

- Oil and filter change.
- Air filter inspection/replacement.
- Spark plug inspection/replacement.
- Valve adjustment (if necessary).
- General system check and calibration.

7. TROUBLESHOOTING

This section provides solutions to common issues you might encounter with your Generac Guardian generator. For complex problems, contact a certified Generac service technician.

Problem	Possible Cause	Solution
Generator does not start.	Low battery, no fuel, control panel not in AUTO mode, fault code.	Check battery charge, ensure fuel supply, set to AUTO, check control panel for fault codes and refer to manual.
Generator starts but does not transfer power.	ATS issue, generator not producing proper voltage/frequency.	Verify generator output on control panel. Contact technician if ATS is not transferring.
Generator runs but shuts down quickly.	Low oil pressure, overheating, fuel issue.	Check oil level, ensure proper ventilation, verify fuel supply. Consult fault codes.

8. SPECIFICATIONS

Key technical specifications for the Generac Guardian 26kW Home Standby Generator (Model 7291):

- **Model:** 7291
- **Power Output:** 26,000 Watts (26kW)
- **Fuel Type:** Natural Gas or Liquid Propane (LP)

- **Engine:** Generac G-Force 1000 Series (999 Cubic Centimeters)
- **Voltage:** 240 Volts (AC)
- **Frequency:** 60 Hz
- **Transfer Switch:** 200 Amp Automatic Transfer Switch included
- **Enclosure Material:** All Aluminum
- **Dimensions (L x W x H):** 48.5" x 25.1" x 28.6"
- **Weight:** 518 Pounds
- **Special Features:** Fully Enclosed Design, Low Oil Shutdown, Super Quiet, Mobile Link Wi-Fi Enabled

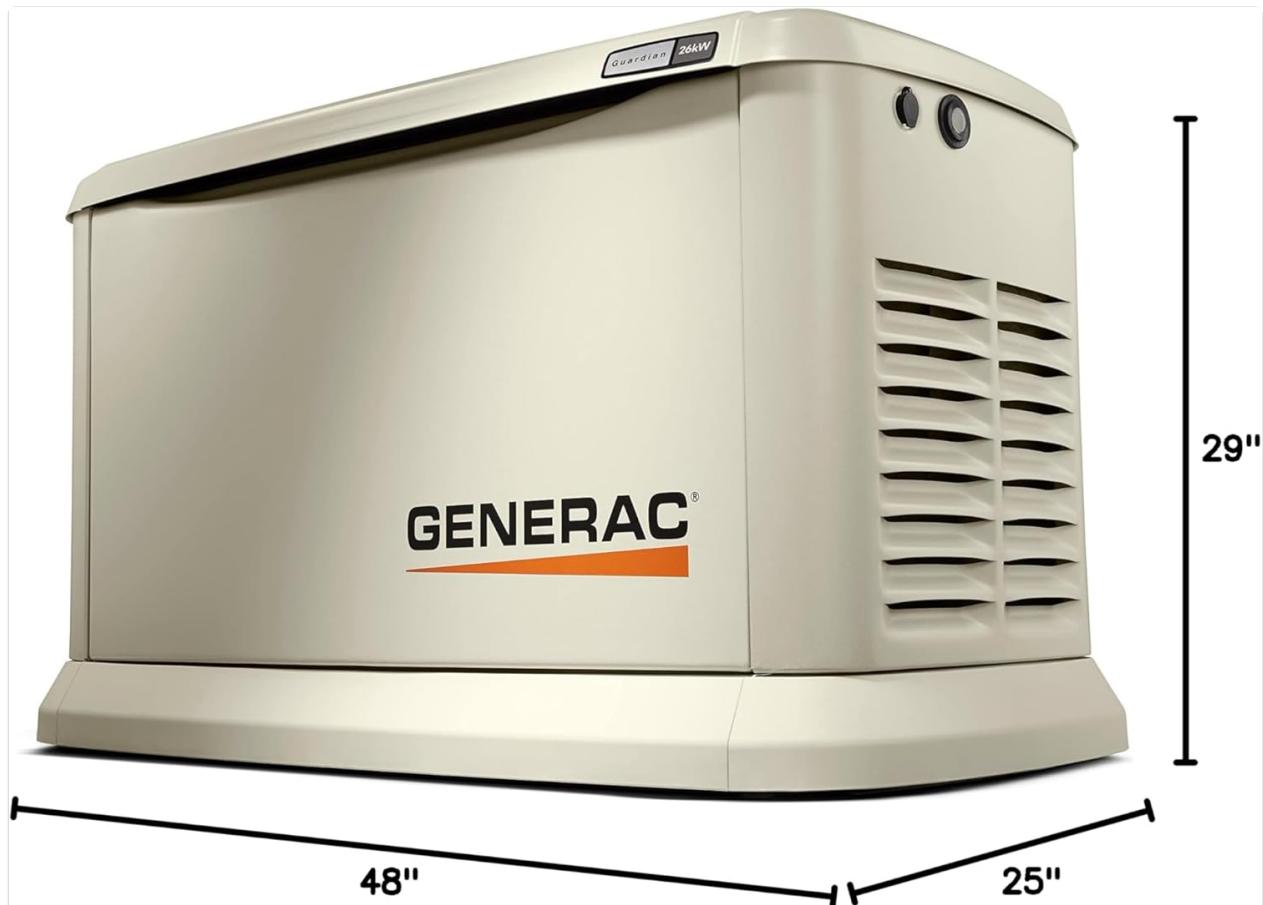


Figure 8.1: Generac Guardian 26kW Generator Dimensions.



GENERAC

Reliable power since 1959

Figure 8.2: Power Needs Estimation Chart (for reference only).

9. WARRANTY AND SUPPORT

9.1 Warranty Information

The Generac Guardian 26kW Home Standby Generator is backed by a **5-Year Limited Warranty**. This warranty covers defects in materials and workmanship under normal use and service. For full warranty terms and conditions, please refer to the warranty document included with your product or visit the official Generac website.



Figure 9.1: Generac Guardian Generator highlighting the 5-Year Limited Warranty.

9.2 Customer Support

For technical assistance, parts, or service, please contact Generac Customer Support. A nationwide dealer network of over 6,000 strong is available to assist you.

- **Online Support:** Visit the official Generac website for FAQs, troubleshooting guides, and service locator.
- **Phone Support:** Available 24/7/365. Refer to the Generac website for the most current contact numbers.

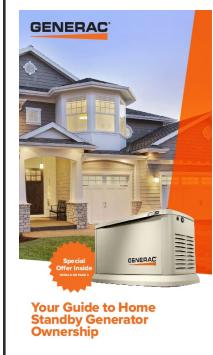
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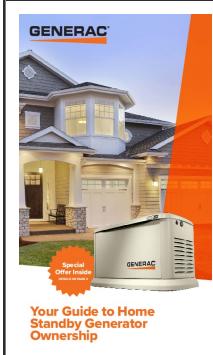
[Generac Home Standby Generators: Your Guide to Power Outage Protection](#)

Learn how Generac automatic home standby generators protect your home 24/7 from power outages caused by storms and grid failures. Explore features, benefits, fuel options, and installation.



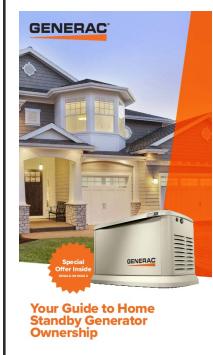
[Generac Home Standby Generator Ownership Guide: Power Your Home](#)

Discover Generac home standby generators, your solution for reliable backup power. This guide covers benefits, models, installation, and how Generac protects your home and family during outages. Learn about special offers and request a free quote.



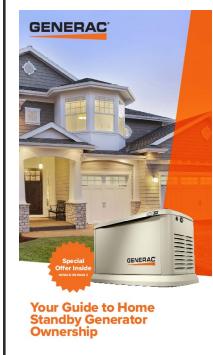
[Generac Home Standby Generator Ownership Guide](#)

Learn about Generac home standby generators, their benefits, features, installation, and how they protect your home during power outages. This buyer's guide provides essential information for making an informed decision.



[Generac Home Standby Generator Ownership Guide: Power Your Home](#)

Learn about Generac home standby generators, their benefits, how they work, installation, and costs. Protect your home and family from power outages with reliable backup power solutions.



[Generac Home Standby Generator Ownership Guide](#)

A comprehensive guide to Generac home standby generators, covering their benefits, how they work, installation process, different models, and key features. Learn why Generac is the #1 trusted brand for reliable backup power during outages and discover a special bonus offer.



[Generac Guardian Series 17kW/20kW Residential Standby Generators - Specifications and Features](#)

Comprehensive details on Generac Guardian Series 17kW and 20kW residential standby generators, including features, technical specifications, transfer switch options, and available accessories. Learn about True Power Electrical Technology and advanced control systems.