

PG PG-12S18E-HP1

PG 12,000 BTU Mini-Split Inverter+ Heat Pump (Model: PG-12S18E-HP1) User Manual

Comprehensive instructions for installation, operation, and maintenance.

1. PRODUCT OVERVIEW

The PG 12,000 BTU Mini-Split Inverter+ Heat Pump is a high-efficiency single-zone air conditioning and heating system designed for precise climate control in spaces up to 550 sq. ft. This unit features advanced Inverter+ Technology for optimal energy efficiency and quiet operation.

Key Features:

- **Inverter+ Technology:** Utilizes a variable-speed DC inverter compressor for consistent temperature, higher efficiency, and quieter operation.
- **Year-Round Climate Control:** Provides both powerful heating and cooling capabilities for comfort in any season.
- **Smart Control and Convenience:** Built-in WiFi allows remote control from your smartphone, enabling adjustment of settings and system monitoring from anywhere.
- **Eco-Friendly Refrigerant:** Pre-charged with R-32 refrigerant.
- **Integrated Smart LED Bulb:** Includes a 60-Watt A19 LED Tunable Smart Bulb with voice control, compatible with Google and Alexa via Wi-Fi or Bluetooth.



Figure 1.1: Overview of the PG Mini-Split system, including indoor unit, outdoor unit, remote, smart control kit, and smart bulb.

2. SAFETY INFORMATION

Please read all safety instructions carefully before operating your new air conditioning unit. Keep this manual for future reference.

- Always ensure the unit is properly grounded to prevent electric shock.
- Do not attempt to repair or modify the unit yourself. Contact qualified service personnel for repairs.
- Keep the indoor unit clean and free from obstructions to ensure proper airflow.
- Ensure the outdoor unit is placed on a stable, level surface or securely mounted to prevent vibration.
- Do not block the air intake or outlet of either unit.

- Use only the specified refrigerant (R-32) and ensure proper handling during installation and maintenance.
- Turn off power at the main breaker before performing any maintenance or cleaning.

3. WHAT'S IN THE BOX

Your PG Mini-Split Inverter+ Heat Pump system comes with the following components:

- Outdoor Unit
- Indoor Air Handler
- Digital Remote Control
- Smart LED Bulb (60-Watt A19 LED Tunable with Voice Control)
- Complete Installation Kit (including tubing, cables, drainage hose, insulation tape, wall hole sleeve, sealing clay)

MINI-SPLIT INVERTER

Stay Cool or Warm: A Smart & Efficient Choice



12,000 BTU



Freeze
Prevention



Cool-air-flow
Prevention



Led Display



Sleep Mode



24-hour
ON or OFF timer



4. SETUP & INSTALLATION

Professional installation by a certified technician is highly recommended to ensure proper function and to maintain warranty validity. Self-installation may void the warranty.

4.1 Sizing Your Unit

To select the correct BTU capacity, measure the square footage of the area to be cooled or heated. Multiply the length by the width of the space. For areas with less insulation (e.g., garages) or high heat gain, consider a slightly higher BTU unit. This 12,000 BTU unit is designed for spaces up to 550 sq. ft.

4.2 Unboxing and Components

The unit will arrive in multiple boxes. Carefully unpack all components and verify against the "What's in the Box" section.

4.3 Indoor Unit Placement

Ensure adequate clearance around the indoor unit for optimal airflow. A minimum of 6 to 8 inches of clearance from the ceiling is recommended, especially since the air intake is located at the top. This ensures efficient operation.

THE PERFECT CLIMATE

A command away



Remote control
with base included



works with
Smart Life

WORKS WITH
amazon alexa

works with
Google Assistant

works with
Hey Google

Seamlessly integrated with your favorite smart assistants

Figure 4.1: Indoor unit mounted on a wall, showing the display and air vents.

4.4 Outdoor Unit Placement

The outdoor unit can be placed on a level base on the ground or mounted to a wall using a bracket. If installing in an area prone to flooding, a wall-mounted bracket is a better option to protect the unit. Ensure the unit is elevated from the ground to minimize vibrations and protect from direct surface contact.

THE PERFECT MATCH

The system includes a smart bulb

**60
Watt**

A19 LED Light Bulb



works with
HUBSPACE

WORKS WITH
amazon alexa

works with
Hey Google

Works with voice assistants for hands-free control

Figure 4.2: Outdoor unit positioned on a concrete base, surrounded by gravel.

4.5 Refrigerant Lines and Electrical Connections

The system comes pre-charged with R-32 refrigerant. The provided tubing is 16 feet long and can be shortened to 10 feet if needed. If the tubing exceeds 25 feet, additional refrigerant must be added to compensate for the extra distance.

Electrical connections should be made to a disconnect box, which acts as a safety measure, allowing power to be shut off for maintenance or emergencies. The disconnect box should then be wired directly to a dedicated breaker in your switch panel.

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Video 4.1: Installation guide for a mini-split AC/heating system, demonstrating the process of connecting the indoor and outdoor units, including refrigerant lines and electrical wiring.

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Video 4.2: Detailed overview of a 12,000 BTU Mini Split Air Conditioner, including unboxing and installation steps.

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Video 4.3: Mini split installation guide, providing visual instructions for setting up the system.

5. OPERATING INSTRUCTIONS

The PG Mini-Split system can be operated using the included digital remote control or via the built-in WiFi smart control.

5.1 Remote Control Functions

The digital remote allows you to:

- Adjust temperature settings.
- Switch between cooling, heating, fan, and dry modes.
- Control fan speed (Auto, Low, Medium, High, Turbo).
- Set timers for automatic on/off.
- Activate Sleep Mode for energy-efficient overnight operation.
- Control the swing of the air vents.

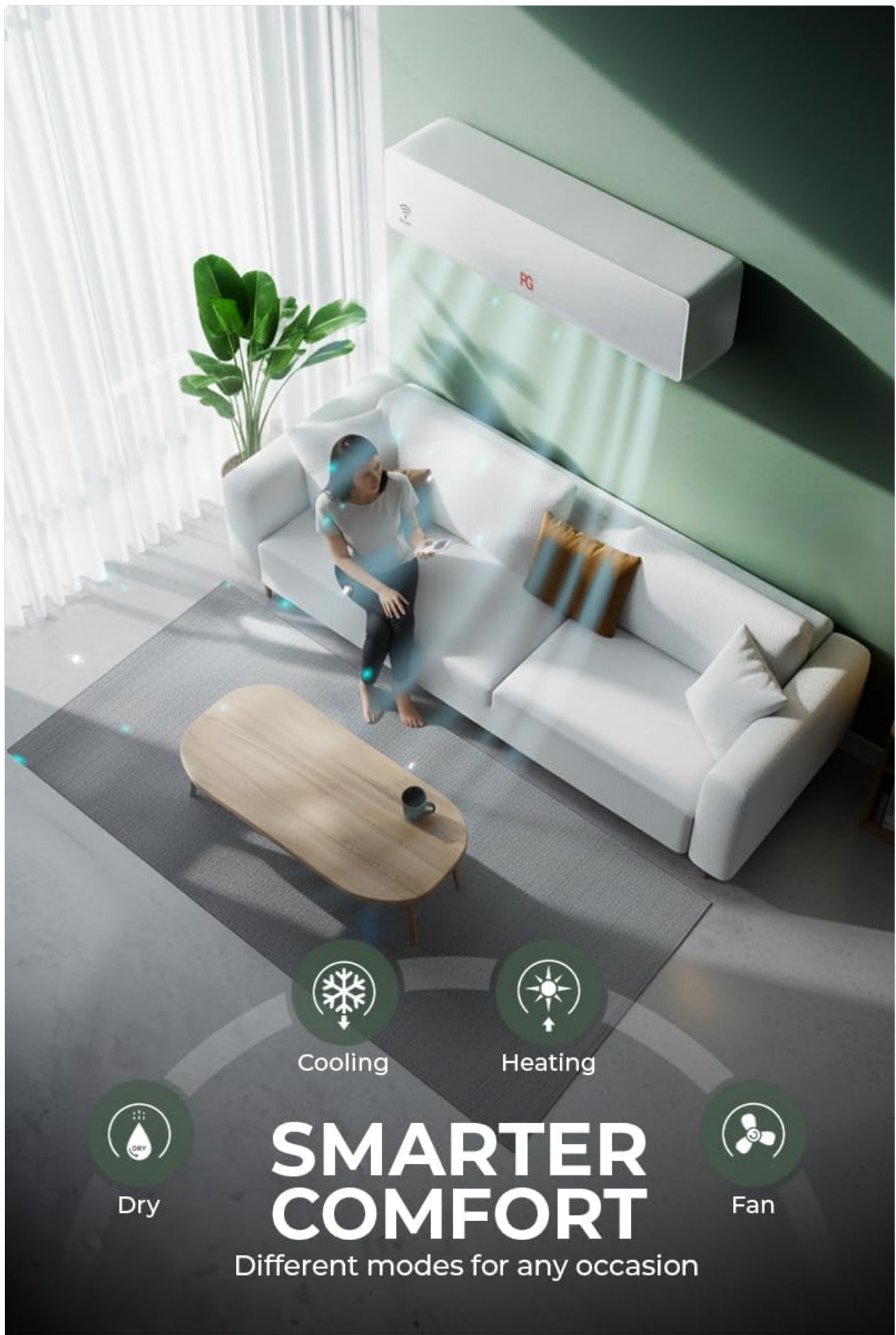


Figure 5.1: Digital remote control displaying various functions and settings.

5.2 WiFi Smart Control

The built-in WiFi module allows you to control the unit remotely using a smartphone app (compatible with Google and Alexa). This feature provides ultimate convenience, enabling you to:

- Turn the unit on or off from anywhere.
- Adjust temperature and fan settings.
- Change operating modes.
- Monitor the system's status.
- Use voice commands through Google Assistant or Amazon Alexa.

THE PERFECT CLIMATE

A command away



Remote control
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Seamlessly integrated with your favorite smart assistants

Figure 5.2: Smartphone app showing controls for the mini-split unit, including temperature and fan speed.

6. MAINTENANCE

Regular maintenance ensures the longevity and efficient operation of your mini-split system.

- **Clean Air Filters:** Periodically clean or replace the air filters in the indoor unit to maintain optimal air quality and efficiency. Refer to the owner's manual for specific instructions and frequency.
- **Inspect Outdoor Unit:** Keep the outdoor unit free from debris, leaves, and other obstructions that could block airflow.
- **Drainage Line Check:** Ensure the drainage hose is clear and free-flowing to prevent water buildup and potential leaks.
- **Professional Servicing:** Schedule annual professional maintenance to check refrigerant levels, electrical connections, and overall system performance.

7. TROUBLESHOOTING

If you encounter issues with your PG Mini-Split system, refer to the following common troubleshooting steps:

- **Unit Not Turning On:** Check if the unit is properly plugged in and if the circuit breaker has tripped. Ensure the remote control batteries are not depleted.
- **Insufficient Cooling/Heating:** Verify that the temperature setting is appropriate for the desired mode. Check if air filters are clean and not obstructed. Ensure no objects are blocking the indoor or outdoor unit's airflow.
- **Unusual Noises:** Minor operational noises are normal. If you hear loud or unusual noises, turn off the unit and contact a qualified technician.
- **Water Leakage:** Check the drainage hose for kinks or blockages. Ensure the indoor unit is properly leveled.
- **Remote Control Not Responding:** Check and replace the remote control batteries. Ensure there are no obstructions between the remote and the indoor unit.

For persistent issues, consult the detailed troubleshooting section in the owner's manual or contact customer support.

8. SPECIFICATIONS

Feature	Detail
Brand	PG
Model Info	PG-12S18E-HP1 / PG-12S18C-HP1
Cooling Power	12,000 British Thermal Units (BTU)
Capacity	Up to 550 sq. ft.
Seasonal Energy Efficiency Ratio (SEER)	18
Voltage	115 Volts
Noise Level	60 Decibels
Product Dimensions	40"D x 12"W x 15"H

Item Weight	65 pounds
Special Features	Inverter+ Technology, Built-in WiFi, R-32 Refrigerant, Sleep Mode, Auto-Restart, Year-Round Climate Control

9. WARRANTY & SUPPORT

The PG Mini-Split Inverter+ Heat Pump comes with a manufacturer's warranty. Please refer to the "Manufacturer's Warranty Certificate" included in your package for detailed terms and conditions. Professional installation is required to validate the warranty.

For customer support, please refer to the contact information provided in your owner's manual or visit the official PG website.

ASK A QUESTION ABOUT THIS MANUAL

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Details

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