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WEN 56421

WEN 56421 Parallel Connection Kit for Inverter Generators

Instruction Manual

PRODUCT OVERVIEW

The WEN 56421 Parallel Connection Kit is designed to combine the power output of two compatible WEN inverter generators. This allows for increased wattage and amperage, providing more power for your needs. The kit features a compact design with integrated cable storage and includes common power outlets for versatile use.



Figure 1: WEN 56421 Parallel Connection Kit with RV-ready and twist-lock outlets.

SETUP INSTRUCTIONS

- 1. Unpack the Kit:** Carefully remove the WEN 56421 Parallel Connection Kit from its packaging. Verify all components are present. The kit includes the main unit with integrated cables.
- 2. Access Cables:** The connection cables are stored compactly within the unit. Open the access panel to retrieve the cables.
- 3. Connect to Generators:**
 - Identify the parallel outlets on your WEN inverter generators. These are typically round, color-coded ports (e.g., red and black).
 - Insert the dual pin connectors from the parallel kit into the corresponding parallel outlets on each generator.
 - Connect the single ground wire from the parallel kit to the ground terminal on each generator. Ensure a secure connection, tightening with a small wrench if necessary.
- 4. Position the Kit:** The parallel connection kit features fasteners that allow it to be mounted on top of a WEN generator for convenient placement and to keep connections off the ground.

Important Note: While the WEN Parallel Connection Kit uses standard round generator parallel cables

compatible with many inverter generator brands (e.g., Predator, Honda, Yamaha, Generac, WEN), optimal performance is achieved when pairing generators of similar specifications and voltage output. Mismatched generators may result in one unit supplying a disproportionate amount of power, reducing overall efficiency.

OPERATING INSTRUCTIONS

1. **Start Generators:** Ensure both connected WEN inverter generators are started and running stably before connecting any loads to the parallel kit.
2. **Connect Appliances:** The parallel kit provides two main outlets:
 - One RV-ready 120V outlet (TT-30).
 - One 120V twist-lock outlet (L5-30).

Connect your RV or other high-demand appliances to these outlets.

3. **Monitor Load:** Always monitor the total power draw to ensure it does not exceed the combined running wattage of your parallel-connected generators. Overloading can cause the generators to trip their circuit breakers or shut down.
4. **Shut Down:** Before disconnecting the parallel kit or shutting down the generators, disconnect all loads from the parallel kit outlets. Then, turn off the generators according to their individual operating instructions.

MAINTENANCE

- **Cleaning:** Keep the parallel kit and its connections clean and free from dirt, dust, and moisture. Use a dry cloth to wipe down the unit.
- **Cable Inspection:** Regularly inspect the cables for any signs of wear, cuts, or damage. Do not use the kit if cables are damaged.
- **Storage:** When not in use, store the cables neatly inside the unit's integrated storage compartment. Store the parallel kit in a dry, protected area away from extreme temperatures.

TROUBLESHOOTING

- **No Power Output:**
 - Ensure both generators are running and their parallel outlets are correctly connected to the kit.
 - Check if any circuit breakers on the generators or the parallel kit have tripped. Reset if necessary.
 - Verify that the ground connections are secure.
- **Uneven Power Distribution (when using mismatched generators):**
 - If using generators of different brands or models, slight voltage differences can cause one generator to supply more power than the other. This is a characteristic of paralleling mismatched units and may not be a fault.
 - For optimal and balanced power distribution, it is recommended to parallel two identical WEN inverter generators.
- **Kit Not Mounting Securely:**
 - Ensure the fasteners are correctly aligned with the mounting points on your WEN generator.
 - Refer to the generator's manual for specific mounting instructions if available.

SPECIFICATIONS

Feature	Specification
Brand	WEN
Model Name	56421
Recommended Uses	Inverter Generators
Wattage (Peak Output Power)	3600 Watts
Input Voltage	120 Volts
Output Voltage	120 Volts
Number of Outlets	2
Built-In Media	One RV-ready 120V outlet (TT-30), one twist-lock 120V outlet (L5-30), and mounting fasteners
Frequency	60 Hz
Electrical Output Waveform	Pure Sine Wave
Item Weight	4 Pounds
Color	Black
Compatible WEN Inverter Series	56125i, 56200i, 56202i, 56225i

WARRANTY AND SUPPORT

The WEN 56421 Parallel Connection Kit is backed by a **two-year warranty**. For technical assistance, troubleshooting, or warranty claims, please contact WEN customer support. WEN maintains a nationwide network of skilled service technicians and a friendly customer help line to assist you.

Please refer to the official WEN website or your product registration for the most current contact information and detailed warranty terms.