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## Progressive Dynamics PD50K3Q2GP

# Progressive Dynamics PD50K3Q2GP Panel Converter User Manual

Model: PD50K3Q2GP | Brand: Progressive Dynamics

## PRODUCT OVERVIEW

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The Progressive Dynamics PD50K3Q2GP Power Distribution Box is engineered to provide a robust and compact solution for managing electrical systems, particularly in recreational vehicles (RVs) or campers. This unit is designed to efficiently and safely channel power to various appliances and devices, ensuring a reliable and organized electrical setup for mobile applications.



Figure 1: Front view of the Progressive Dynamics PD50K3Q2GP Panel Converter, showcasing its compact design.

## SETUP AND INSTALLATION

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Proper installation of the PD50K3Q2GP Power Distribution Box is crucial for safe and efficient operation. This unit is designed for ease of installation with ample wiring space and built-in wire strain relief for each branch circuit.

### Key Features for Installation:

- **AC Main and Branch Circuits:** Accommodates a 30 Amp AC main and supports up to 9 AC branch circuits.
- **DC Branch Circuits:** Provides room for up to 12 fused DC branch circuits, suitable for 12 Volt lighting and DC appliance circuits.
- **Fuse Compatibility:** Accepts rated fuses up to 30 Amp, potentially eliminating the need for auxiliary fuse panels for slide-outs and leveling jacks.
- **Quick Connects:** Features 30 Amp quick connects for simplified wiring.
- **Grounding:** Includes a DC ground block and an AC outlet on the back for comprehensive electrical management.



Figure 2: Internal view of the panel converter, illustrating the generous wiring space and circuit board layout for connections.



Figure 3: The front control panel with the access cover removed, revealing the fuse panel and circuit breaker slots for easy access during installation and maintenance.

For detailed wiring diagrams and specific installation instructions, refer to the complete installation guide provided with your product or consult a qualified electrician.

## OPERATING INSTRUCTIONS

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The PD50K3Q2GP Panel Converter serves as a central hub for your RV's electrical distribution. Once properly installed, its operation is largely automatic, managing the flow of both AC and DC power to your connected devices.

### Power Distribution:

- **AC Power:** The unit distributes 120V AC power from your shore power connection or generator to up to 9 individual AC branch circuits, protected by circuit breakers.
- **DC Power:** It manages 12V DC power from your battery bank (and converter, if separate) to up to 12 fused DC branch circuits, powering lights, pumps, and other 12V appliances.

### Circuit Protection:

The panel is equipped with circuit breakers for AC circuits and fuse holders for DC circuits. These protective devices are designed to trip or blow in the event of an overload or short circuit, protecting your appliances and the electrical system. Familiarize yourself with the location of these protective devices as shown in Figure 3.

## MAINTENANCE

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Regular maintenance of your PD50K3Q2GP Power Distribution Box ensures its longevity and reliable performance. Always disconnect all power sources (shore power, generator, and battery) before performing any maintenance.

### Fuse Replacement:

1. Identify the blown fuse. Most fuses have a visible break in the filament or a darkened appearance.
2. Gently pull the old fuse straight out of its holder.
3. Insert a new fuse of the *exact same amperage rating* into the empty slot. Using a fuse with a higher rating can lead to electrical hazards.
4. Ensure the new fuse is seated firmly.

### General Cleaning:

Periodically inspect the panel for dust, debris, or signs of corrosion. Use a dry, soft cloth to clean the exterior. Avoid using liquid cleaners directly on the panel to prevent damage to electrical components.

### Connection Checks:

Occasionally, with power disconnected, check all wire connections within the panel to ensure they are tight and secure. Loose connections can cause overheating and intermittent power issues.

## TROUBLESHOOTING

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This section provides guidance for common issues you might encounter with your power distribution box.

Problem	Possible Cause	Solution
No power to an AC appliance/outlet	Tripped AC circuit breaker	Locate the tripped breaker (usually halfway between ON and OFF), turn it fully OFF, then back to ON. Reduce load on circuit.

Problem	Possible Cause	Solution
No power to a DC appliance/light	Blown DC fuse	Identify and replace the blown fuse with one of the same amperage rating (refer to Maintenance section).
Intermittent power or flickering lights	Loose wiring connection	<i>With all power disconnected</i> , check and tighten all wire connections within the panel.
Panel feels unusually warm	Overload or loose connection	Reduce electrical load. <i>Immediately disconnect power</i> and inspect for loose connections or damaged wiring. Consult a professional if unsure.

If troubleshooting steps do not resolve the issue, or if you are uncomfortable performing electrical work, it is recommended to consult a qualified RV technician or electrician.

## SPECIFICATIONS

Model Name	PD5000
Item Model Number	PD50K3Q2GP
Brand	Progressive Dynamics
Manufacturer	Progressive Dynamics
Item Weight	2.19 pounds
Wattage	3600 watts
Power Source	Battery Powered (for DC distribution)
Package Length	11.7 inches
Package Width	9.2 inches
Package Height	4.1 inches
AC Main Capacity	30 Amp
AC Branch Circuits	Up to 9
DC Branch Circuits	Up to 12 fused circuits
DC Fuse Rating	Accepts up to 30 Amp rated fuses

## WARRANTY AND SUPPORT

For information regarding product warranty, please refer to the documentation included with your purchase or visit the official Progressive Dynamics website. For technical support, installation assistance, or to inquire about replacement parts, please contact Progressive Dynamics customer service directly.

**Important Note:** This product may contain materials cautioned by California Proposition 65. Please refer to the product packaging or manufacturer's website for specific warnings.

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This manual is for informational purposes only. Specifications are subject to change without notice.