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Furman P-8 PRO C

Furman P-8 PRO C Power Conditioner Instruction Manual

Model: P-8 PRO C | Brand: Furman

1. INTRODUCTION

The Furman P-8 PRO C is a professional-grade power conditioner designed to provide advanced protection and clean power for your valuable audio, video, and electronic equipment. It incorporates Furman's exclusive Series Multi-Stage Protection (SMP), Linear Filtering Technology (LiFT), and Extreme Voltage Shutdown (EVS) to safeguard against power surges, spikes, and AC line noise, ensuring optimal performance and longevity of your connected devices.

2. SAFETY INFORMATION

WARNING: To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture. Do not remove cover. No user-serviceable parts inside. Refer servicing to qualified service personnel.

- Always connect the P-8 PRO C to a properly grounded 20-amp electrical outlet.
- Do not overload the unit. The total current draw of all connected equipment must not exceed 20 amps.
- Ensure proper ventilation around the unit. Do not block any ventilation openings.
- Keep liquids away from the unit.
- **Proposition 65 Warning:** This product may contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

3. PRODUCT FEATURES

3.1. Advanced Protection Technologies

- **Series Multi-Stage Protection (SMP):** Furman's SMP circuit provides superior surge suppression, absorbing and dissipating damaging transient voltages without sacrificing itself. This ensures continuous protection for your equipment.
- **Linear Filtering Technology (LiFT):** LiFT significantly reduces AC line noise across a wide frequency range, delivering cleaner power to your sensitive electronics. This results in improved audio clarity and video resolution.
- **Extreme Voltage Shutdown (EVS):** The EVS circuit continuously monitors incoming voltage. If it detects an unsafe overvoltage condition (exceeding 137 volts), it automatically shuts down the connected equipment to prevent damage, then restores power once voltage returns to a safe level.

3.2. Outlets and Power

- **Total Outlets:** 9 (1 front-panel convenience outlet, 8 rear-panel outlets).
- **Rear Outlets:** Designed with ample spacing to accommodate 'wall wart' power supplies and feature security strapping to prevent accidental disconnections.
- **Power Cord:** Integrated 10-foot, 12-gauge power cord.
- **Amperage:** 20-amp capacity, requiring a 20-amp female receptacle or a Furman ADP-1520B adapter for connection.

3.3. Additional Features

- **BNC Connector:** A BNC connector is located on the rear panel for optional GN-LED or GN-I gooseneck lights (sold separately) to illuminate the rear of your rack.
- **Rack-Mountable Design:** Standard 1U rack-mount chassis for easy integration into professional setups.

4. SETUP AND INSTALLATION

4.1. Rack Mounting

The P-8 PRO C is designed for standard 1U rack installation. Secure the unit using appropriate rack screws (not included) through the mounting ears on both sides of the front panel. Ensure sufficient space for ventilation.

4.2. Power Connection

1. Connect the integrated 10-foot, 12-gauge power cord from the P-8 PRO C to a dedicated 20-amp, 120-volt AC grounded electrical outlet. If a 20-amp receptacle is not available, use a Furman ADP-1520B adapter.
2. Ensure the main power switch on the front panel of the P-8 PRO C is in the OFF position before connecting any equipment.

4.3. Connecting Equipment

Plug your audio, video, or electronic equipment into the 8 rear-panel outlets and the 1 front-panel convenience outlet. Utilize the wide spacing of the rear outlets for larger power adapters. For critical equipment, consider using the security strapping to prevent accidental unplugging.



Figure 1: Rear panel of the Furman P-8 PRO C, illustrating the 8 spaced outlets for connecting various equipment and the main power input.



Figure 2: Front panel of the Furman P-8 PRO C, featuring the convenience outlet, power switch, and protection indicator lights.

4.4. Optional Gooseneck Lights

If desired, connect optional Furman GN-LED or GN-I gooseneck lights to the BNC connector on the rear panel for rack illumination.

5. OPERATION

5.1. Powering On/Off

Once all equipment is connected, flip the main power switch on the front panel to the ON position. The P-8 PRO C will power on, and connected equipment will receive conditioned and protected power.

5.2. Indicator Lights

- **Protection OK (Green LED):** This indicator illuminates green when the SMP circuit is active and providing surge protection. If this light is off, the unit's surge protection has been compromised, and the unit should be serviced.
- **Extreme Voltage (Red LED):** This indicator illuminates red when the incoming voltage exceeds safe operating levels (above 137 volts). The EVS circuit will shut down power to connected equipment until the voltage returns to a safe range.

6. MAINTENANCE

The Furman P-8 PRO C is designed for reliable, maintenance-free operation. No user-serviceable parts are inside. For cleaning, disconnect the unit from the power source and wipe the exterior with a soft, dry cloth. Avoid using abrasive cleaners or solvents.

7. TROUBLESHOOTING

7.1. No Power to Outlets

- Check the main power switch on the front panel to ensure it is in the ON position.
- Verify that the P-8 PRO C is securely plugged into a functioning 20-amp wall outlet.
- Check the circuit breaker on the P-8 PRO C (usually located near the power cord input) and reset if tripped.
- If the 'Extreme Voltage' indicator is lit, the incoming voltage is too high. The unit will automatically restore power when conditions normalize.
- If the 'Protection OK' indicator is off, the surge protection circuit may be compromised. Discontinue use and contact Furman support.

7.2. Audio/Video Noise

- Ensure all equipment is properly grounded.
- Check for loose cable connections.
- The LiFT technology in the P-8 PRO C is designed to reduce AC line noise. If noise persists, try isolating the source of the noise by unplugging devices one by one.

8. SPECIFICATIONS

Feature	Specification
Model	P-8 PRO C
Input Voltage	120V AC (Nominal)
Output Voltage	120V AC (Nominal)
Current Capacity	20 Amps
Wattage	2400 Watts
Outlets	9 (1 Front, 8 Rear)
Power Cord	10 ft, 12 AWG
Dimensions (H x W x D)	1.75" x 19" x 11" (1U Rackmount)
Weight	Approximately 0.01 ounces (Note: This weight is from provided data and may be a placeholder or error.)
Protection Modes	Line to Neutral, Neutral to Ground, Line to Ground
Filtering	Linear Filtering Technology (LiFT)
Oversupply Shutdown	Extreme Voltage Shutdown (EVS) at >137V AC
Rear Illumination	BNC connector for optional gooseneck lights

9. WHAT'S IN THE Box

- 1 x Furman P-8 PRO C Power Conditioner

10. WARRANTY AND SUPPORT

Furman products are backed by a limited warranty. For detailed warranty information, product registration, and technical support, please visit the official Furman website or contact their customer service. Keep your purchase receipt as proof of purchase for warranty claims.

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