

Furman PLPRODMC

Furman PL-PRO DMC 20 Amp Power Conditioner User Manual

Model: PLPRODMC

INTRODUCTION

This manual provides comprehensive instructions for the safe and effective operation, setup, and maintenance of your Furman PL-PRO DMC 20 Amp Power Conditioner. The Furman PL-PRO DMC is designed to provide superior power conditioning and surge protection for sensitive electronic equipment, ensuring optimal performance and longevity. Furman's exclusive SMP (Series Multi-Stage Protection) technology offers the highest level of surge and spike protection available, safeguarding your valuable audio, video, or computer equipment from damaging power anomalies. This unit also features isolated outlet banks to minimize inter-component interference and noise contamination, and a 20 Amp rating with a high inrush magnetic circuit breaker for added protection.

IMPORTANT SAFETY INFORMATION

Please read all safety instructions before operating this device. Keep this manual for future reference.

- Do not expose this unit to rain or moisture.
- Do not remove the cover. No user-serviceable parts inside. Refer servicing to qualified personnel.
- Connect to a grounded AC outlet only.
- Ensure the power source matches the voltage requirements of the unit.
- Do not overload the unit beyond its 20 Amp capacity.
- This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

KEY FEATURES

- **SMP (Series Multi-Stage Protection):** Provides robust surge and spike protection.
- **LiFT (Linear Filtering Technology):** Reduces AC line noise for cleaner audio/video.
- **EVS (Extreme Voltage Shutdown):** Protects equipment from sustained overvoltage conditions.
- **Isolated Outlet Banks:** Minimizes inter-component interference.
- **Digital Voltmeter/Ammeter:** Displays incoming voltage and current draw.
- **20 Amp Rating:** High current capacity with a magnetic circuit breaker.
- **Front Panel USB Charger:** Convenient charging for USB devices.

- **BNC Connector with Lamp:** For rear rack illumination (lamp sold separately).

SETUP AND INSTALLATION

The Furman PL-PRO DMC is designed for standard 19-inch rack mounting, occupying 1U of rack space. Ensure adequate ventilation around the unit.

Front Panel Overview



Figure 1: Front panel of the Furman PL-PRO DMC. This view shows the main power switch, digital voltmeter/ammeter display, USB charging port, and front panel outlets.

- **Power Switch:** Turns the unit on/off.
- **Digital Display:** Shows incoming AC voltage and current draw.
- **USB Charging Port:** Provides 5V DC for charging compatible USB devices.
- **Front Panel Outlets:** Two convenience outlets for temporary connections.
- **BNC Lamp Connector:** For connecting an optional gooseneck lamp for rack illumination.

Rear Panel Overview



Figure 2: Rear panel of the Furman PL-PRO DMC. This view displays the main power inlet, multiple AC outlets, and the BNC lamp connector.

- **AC Power Inlet:** Connects the unit's 20 Amp power cord to a dedicated 20 Amp grounded AC wall outlet.
- **Isolated Outlet Banks:** Multiple AC outlets are grouped into isolated banks to prevent noise cross-contamination between connected components.
- **Circuit Breaker:** Resettable 20 Amp circuit breaker.

Connection Steps

1. Mount the PL-PRO DMC securely in a standard 19-inch equipment rack.
2. Connect the unit's 20 Amp power cord to a dedicated 20 Amp grounded AC wall outlet. Ensure the outlet is capable of supplying 20 Amps.
3. With the PL-PRO DMC power switch in the OFF position, connect your electronic equipment to the rear panel AC

outlets. Distribute your equipment across the isolated outlet banks as needed to minimize interference.

- 4. For temporary connections, use the front panel outlets.
- 5. If desired, connect an optional BNC gooseneck lamp to the BNC connector on the front or rear panel for rack illumination.

OPERATING INSTRUCTIONS

Powering On/Off

To power on the unit and connected equipment, press the main power switch on the front panel to the ON position. The digital display will illuminate, showing the incoming voltage and current draw. To power off, press the switch to the OFF position.

Monitoring Voltage and Current

The front panel digital display continuously monitors and shows the incoming AC line voltage and the total current being drawn by all connected equipment. This allows you to keep track of your power consumption and ensure stable operation.

Protection Indicators

- **"Protection OK" Indicator:** A green LED on the front panel indicates that the SMP surge protection is active and functioning correctly.
- **"Extreme Voltage Shutdown" Indicator:** A red LED (if present, or indicated on display) will illuminate if the incoming voltage is too high or too low, triggering the EVS circuit to shut down power to protect connected equipment. Power will be restored automatically once the voltage returns to a safe range.

MAINTENANCE

The Furman PL-PRO DMC requires minimal maintenance. Follow these guidelines to ensure optimal performance and longevity:

- **Cleaning:** Disconnect the unit from the power source before cleaning. Use a soft, dry cloth to wipe the exterior. Do not use liquid or aerosol cleaners.
- **Ventilation:** Ensure that the ventilation openings are not blocked. Proper airflow is essential to prevent overheating.
- **Circuit Breaker:** If the circuit breaker trips, disconnect some equipment, then press the breaker button to reset it. If it continues to trip, consult the troubleshooting section.
- **No User-Serviceable Parts:** Do not attempt to open the unit or perform any internal repairs. Refer all servicing to qualified Furman service personnel.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Unit does not power on.	No AC power; tripped circuit breaker; faulty power cord.	Check wall outlet; reset circuit breaker on unit; ensure power cord is securely connected.
"Protection OK" light is off.	Unit has absorbed a significant surge; internal protection circuit may be compromised.	Contact Furman service for inspection. The unit may still pass power, but surge protection is no longer active.

Problem	Possible Cause	Solution
"Extreme Voltage Shutdown" light is on.	Incoming AC voltage is outside safe operating range.	Wait for voltage to stabilize. If problem persists, consult an electrician.
Noise or hum in audio equipment.	Ground loop; interference from other components.	Ensure all equipment is properly grounded; try connecting components to different isolated outlet banks.
Circuit breaker trips frequently.	Overload; faulty equipment connected.	Reduce total current draw by disconnecting some equipment; check connected equipment for faults.

SPECIFICATIONS

Feature	Detail
Model	PLPRODMC
Input Current	20 Amps
Voltage	120V AC (Nominal)
Product Dimensions	19 x 10.5 x 1.75 inches (48.26 x 26.67 x 4.45 cm)
Item Weight	12 pounds (5.44 kg)
Rack Space	1U
Surge Protection	SMP (Series Multi-Stage Protection)
Noise Filtration	LiFT (Linear Filtering Technology)
Overvoltage Protection	EVS (Extreme Voltage Shutdown)
Outlets	Rear Panel: 8-9 (depending on model variant), Front Panel: 2
USB Charging Port	5V DC, 500mA (USB 1.0 spec)

WARRANTY INFORMATION

Furman products are covered by a limited warranty. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official Furman website. Keep your proof of purchase for warranty claims.

The warranty typically covers defects in materials and workmanship under normal use. It does not cover damage caused by misuse, abuse, accidents, unauthorized modifications, or connection to improper power sources.

CUSTOMER SUPPORT

If you require technical assistance or have questions regarding your Furman PL-PRO DMC, please contact Furman customer support. Before contacting support, please have your model number (PLPRODMC) and serial number ready. For the most up-to-date contact information and support resources, please visit the official Furman website: www.furmanpower.com

You can also refer to the official User Manual PDF provided by Amazon: [User Manual \(PDF\)](#)

Documents - Furman – PLPRODMC



[pdf] Accessories

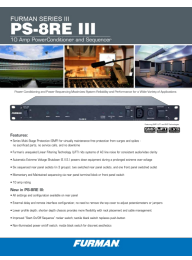

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Related Documents

	<p>Furman PS-8RE III Series III: 10 Amp Power Conditioner and Sequencer</p> <p>Detailed overview of the Furman PS-8RE III Series III, a 10 Amp power conditioner and sequencer featuring Series Multi-Stage Protection (SMP), Linear Filtering Technology (LiFT), and Extreme Voltage Shutdown (EVS) for reliable audio/video system performance.</p>
	<p>Furman Pro Plugs: Power Conditioners and Distribution Units</p> <p>Explore Furman Pro Plugs, including power conditioners (SS-6, SS-6B, SS-6B-Pro) and distribution units (PlugLOCK, ACX-25), offering surge protection, noise filtration, and reliable power for audio and video equipment. Features detailed specifications, safety guidelines, and warranty information.</p>



[Furman 120V Consumer Electronics Line Catalog: Advanced AC Power Management](#)

This catalog details Furman's 120V AC power management solutions for home theater, audiophile, and videophile applications. Discover advanced technologies like SMP, EVS, Power Factor Technology, and LiFT, alongside product lines including power conditioners, voltage regulators, UPS, and power strips. Visit www.furmanpower.com for more information.



[Furman F1500-UPS: 1500VA Uninterruptible Power Supply, Battery Backup, and Power Conditioner](#)

Detailed information on the Furman F1500-UPS, a 1500VA battery backup and power conditioner designed for audio/video professionals, featuring SMP surge protection, LiFT noise filtration, AVR voltage regulation, and True Sine Wave output.