

# FURMAN

PURIFY YOUR POWER

LINEAR FILTERING TECHNOLOGY

## Series II Power Conditioners 15 amp



### PL-8 Series II Features:

- SMP+ with extreme voltage shutdown
- LiFT (Linear Filtering Technology) with zero ground contamination
- Two retractable, long-life, low-heat LED lights with dimmer switch for rack illumination
- BNC connector on the rear panel allows you to attach any standard 12V gooseneck lamp to illuminate the rear of your rack
- Eight rear panel outlets and one front panel outlet
- 15 amp rating, with circuit breaker
- Three year limited warranty

### PL-PLUS Series II

- All PL-8 Series II features, Plus...
- Front panel multi-segment colored LED meter to display incoming line voltage ranging from 90 to 128 volts

### PL-PLUS D II

- All PL-8 Series II features, Plus...
- Front panel digital LED meter displays incoming AC line voltage with laboratory accuracy (+/- 1.5 VAC)

### PM-8 II

- All PL-8 Series II features (except lights), Plus...
- Front panel digital meter displays incoming AC line voltage with laboratory accuracy (+/- 1.5 VAC)
- Additional front panel true RMS digital meter displays AC current draw with laboratory accuracy regardless of load reactance, inductance or resistance (+/- 0.1 amp)

## INTRODUCING SERIES II

*The latest generation of Furman's legendary 15 amp power conditioners, featuring Furman's exclusive Series Multi-Stage Protection Plus (SMP+) with Linear Filtering Technology (LiFT).*

### DESCRIPTION

The most widely recognized and trusted name in AC power conditioning is proud to introduce the PL-8 II, PL-Plus II, PL-Plus D II and PM-8 II power conditioners, featuring Furman's revolutionary SMP+ technology. Furman's Series Multi-Stage Protection (SMP+) circuit also features our exclusive Linear Filter Technology (LiFT), Extreme Voltage Shutdown (EVS) and a high current TVZ MOV. Together, these technologies comprise what is, without question, the world's most advanced and comprehensive transient voltage surge suppressor.

### SMP+ (Series Multi-Stage Protection Plus)

Furman's SMP+ surge suppression virtually eliminates service calls. Traditional surge suppression circuits "sacrifice" themselves when exposed to multiple transient voltage spikes, requiring the dismantling of your system, and repair of your surge suppressor. With Furman's SMP+, however, damaging transient voltages are safely absorbed, clamped and dissipated. Furman's SMP+ technology does not depend on sacrificial components and therefore has an unlimited joule rating.

Unique to Furman's SMP+ is its unparalleled clamping voltage. While other designs offer clamping voltages that are well above 300Vpk, Furman's SMP+ clamps at 188Vpk, 133 VAC RMS even when tested with multiple 6000Vpk - 3000 amp surges! This unprecedented level of protection is only available with Furman's SMP+ technology. Additionally, Furman's trusted over-voltage circuitry protects against all too frequent accidental connections to 208 or 240VAC, by shutting off the incoming power until the over voltage condition is corrected.

# Series II Power Conditioners

## 15 amp



Gooseneck light sold separately

## LiFT (Linear Filtering Technology)

Unfortunately, traditional AC conditioners have been designed for unrealistic laboratory conditions. Prior technologies, whether multiple pole filter or conventional series mode, could actually harm audio and video performance more than they help, due to the resonant peaking of their antiquated, non-linear designs. Under certain conditions, these designs can actually add more than 10 dB of noise to the incoming AC line! Worse still, lost digital data, the need to reboot digital presets, or destroyed digital converters are frequently caused by excessive voltage spikes and AC noise contaminating the equipment ground. Furman's SMP+ with LiFT takes another approach, ensuring optimal performance through linear filtering and no leakage to ground.

## FEATURES

The PL -8 II, PL-Plus II, and PL-Plus D II feature LED rack lights which produce virtually no heat and provide an extremely long life span. A dimmer control for the rack lights allows the user to adjust the level of illumination or simply switch the lights off.

Additionally, all units include a rear mounted BNC jack which accepts any standard (12VAC, 0.5A) gooseneck lamp for rear rack illumination, as well as a front panel switch which controls the gooseneck's operation.

A front panel mounted master switch controls operation of the rear outlets, and glows red when the power is on. The front-panel circuit breaker can be quickly and easily reset should the unit be overloaded. The Series II also features a 10 foot, 14 gauge heavy-duty power cable.

## THREE YEAR LIMITED WARRANTY

Furman Series II products are protected by a limited three-year warranty covering defects in materials and workmanship.

## OPTIONS

- Multi-Stagels PL-8 II E, PL-PLUS II E, PL-PLUS DE II, and PM-8E II: "E" suffix versions are for use in countries with 220/240 volt AC lines. Each has ten rear panel outlets, using internationally- accepted IEC-320 connectors. The voltmeter on the PL-PLUS E II reads from 180 to 256 VAC, in 4 volt steps.

## SPECIFICATIONS

- Current rating:  
15 amps ("E" versions 10 amps)
- Operating Voltage:  
90 to 140 VAC ("E" versions 180 to 280 VAC)
- Over Voltage Shutdown:  
140 VAC typically ("E" versions 280 VAC typically)
- Voltmeter Accuracy:  
PL-PLUS II only:  $\pm 2$  VAC, calibrated with internal trimpot adjustments  
PL-PLUS D & PM-8:  $\pm 1.5$  VAC
- Spike Protection Multi-Stages:  
Line to neutral, zero ground leakage
- Spike Clamping Voltage:  
188 Vpk @ 3,000 amps, 133 VAC RMS (tested to UL-1449 6,000 Vpk @ 3,000 amps)
- Response time:  
1 nanosecond
- Maximum surge current:  
6,500 amps
- Noise attenuation:  
10 dB @ 10 kHz  
40 dB @ 100 kHz  
100 dB @ 10 MHz  
Linear attenuation curve from 0.05 - 100 ohms line impedance
- Mechanical:  
Dimensions: 1.75" H x 19" W x 10.5" D.  
Weight: 11 lbs (5 kg).  
Construction: Steel chassis, .125" brushed and black anodized aluminum front panel; glass epoxy printed circuit boards
- Power Consumption:  
PL-8 II, 6 watts  
PL-PLUS II, 11 watts  
PL-PLUS D II, 12 watts  
PM-8 II, 12 watts
- Safety Agency Listings:  
CE, NRTL-C
- Patent number: CA1332074 (4,901,183)