

# NEW 230 VOLT POWER CONDITIONERS

**FURMAN**  
PURIFY YOUR POWER

Now with  
**PowerCon outlets!**



## ALL UNITS FEATURE:

**SMP+<sup>LIFT</sup>**  
E.V.S.  
M.O.V.

advanced surge protection, extreme voltage shutdown, ultra-low clamping voltage

- LiFT (Linear Filtering Technology) with zero ground contamination
- 16 amp rating, with circuit breaker

- Five IEC rear panel outlets with a front panel circuit breaker, and **three PowerCon** panel outlets (PS-PRO PE II has 2 IEC outlets)
- BNC connector on the rear panel allows you to attach any standard (12VAC 0.5 amp) gooseneck lamp to illuminate the rear of your rack
- Three year limited warranty



### PL-PRO PE II Additional Features

- Two retractable, long-life, low-heat LED light fixtures with dimmer control for rack illumination
- Front panel bar graph meter displays incoming line voltage from 180 to 256 volts ( $\pm 4$  V)



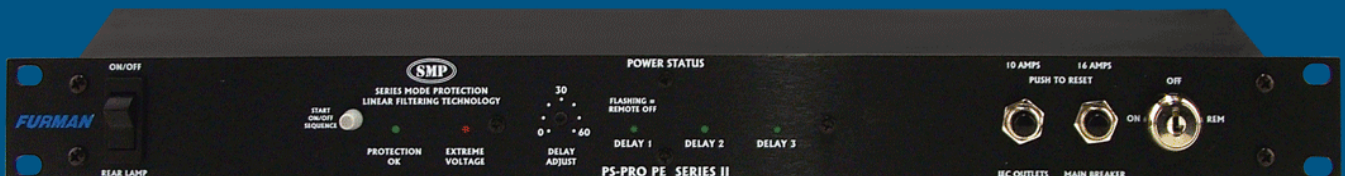
### PL-PRO PDE II Additional Features

- Two retractable, long-life, low-heat LED light fixtures with dimmer control for rack illumination
- Laboratory precision Digital Voltmeter displays incoming line voltage ( $\pm 1.5$  VAC)



### PM-PRO PE II Additional Features

- Laboratory precision Digital Voltmeter displays incoming line voltage ( $\pm 1.5$  VAC)
- True RMS Current Meter displays power draw ( $\pm 0.5$  amp)



### PS-PRO PE II Additional Features

- Power-up in three delayed outlet groups (power-down reverses sequence)
- Remote operation allows turn-on and turn-off from a distance simply by connecting a momentary or maintained-contact switch (and LED if desired)
- Power Status LED's indicate which outlet groups have power

## FEATURES

Each model offers three PowerCon outlets and five IEC outlets except the PS-PRO PE II which has three PowerCon outlets and two IEC outlets. All have a plentiful 230 volt, 16 Amp capacity.

The "PL" units 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. The PL-PRO PE has a multi-segment LED voltmeter, while the PL-PRO PDE has a digital voltmeter. The "PM" unit features both a digital voltmeter and true RMS current meter. The "PS" unit acts as a sequencer as well as a power conditioner, powering equipment up and down in three delayed stages.

All Series II 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 to control the gooseneck's operation. Other features include a front-panel circuit breaker which can be quickly and easily reset should the unit be overloaded, and a 3 meter, 12 gauge heavy-duty power cable.

However, the most important features are the advanced protection circuitry (SMP+) and Linear Filtration Technology (LiFT) which are employed in every Furman Series II unit described in more detail below.



### 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.

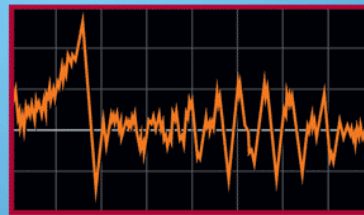
Unique to Furman's SMP+ is its unparalleled clamping voltage. Unlike some surge suppressors, Furman's virtually maintenance free feature is not at the expense of potential equipment failure! While other designs offer extremely high clamping voltages, Furman's SMP+ clamps at 376 Vpk, 266 VAC RMS even when tested with multiple 6000Vpk - 3000 amp surges! This unprecedented level of protection is only available with Furman's SMP+ technology which incorporates a TVZ MOV. Additionally, Furman's trusted over-voltage circuitry protects against all too frequent open neutral wiring. Furman's SMP+ with over voltage protection immediately shuts off the incoming power until the over voltage condition is corrected.

### LiFT (Linear Filtering Technology)

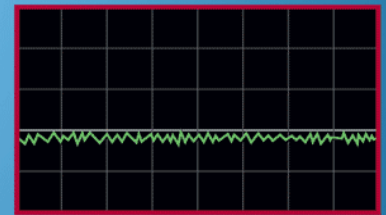
Unfortunately, traditional AC conditioners have been designed for unrealistic laboratory conditions. Prior technologies whether multiple pole filter or conventional series mode, could actually harm audio and video performance more than help, due to the resonant peaking of their non-linear designs. Under 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.

### THREE YEAR LIMITED WARRANTY

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



*Regular AC Power causes distortion, buzzing, and video disturbances.*



*Furman's exclusive Linear Filtering Technology dramatically reduces AC noise.*

## SPECIFICATIONS

**Current rating:** 16 amps

**Operating Voltage:**

180 to 280 VAC (UK version, 260 VAC)

Over Voltage Shutdown:

280 VAC typically (UK version, 260 VAC)

**Voltmeter Accuracy:**

PL-PRO E II / PE II:  $\pm 4$  VAC, calibrated with internal trimpot adjustments

PL-PRO DE II / PDE II &

PM-PRO E II / PE II:  $\pm 1.5$  VAC

**Current Meter Accuracy:**

PM-PRO E II / PE II:  $\pm 0.5$  amp

**Spike Protection Modes:**

Line to neutral, zero ground leakage

**Spike Clamping Voltage:**

376 Vpk (266 VAC RMS)

**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**

**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:** 12 watts

**Safety Agency Listings:** CE