

# Metered Six Series

*"...triple stage surge suppression, retractable rack lights, over-under voltage shutdown, and multi stage RFI/EMI filtering."*



The Furman Metered Six line of Power Conditioners offers many of the same features that have made our power products preeminent within the music, broadcast, and contractor industries for decades. Now, many of our standard features such as triple stage surge suppression, retractable rack lights, over-under voltage shutdown, and multi stage RFI/EMI filtering, are available with laboratory quality Digital Voltage and True RMS Voltage/Current meters.

Power line disturbances are real, and they are inevitable. According to Consumer Reports (November, 1994), "One significant surge a day is the norm. High-exposure areas may experience perhaps a hundred smallish spikes a day." Proper protection is essential for costly equipment, even more so if it is frequently moved from location to location. But there is a wide range of differences in the performance available from the protection products available.

# PL-PROD PL-PRODM PM-PRODM

## PRO SERIES

- 20 amp / 2400 watt rating handles even the largest power amps
- Laboratory precision grade digital volt meter and true RMS volt / current meter (+/- 1 VAC, +/- 0.1 amp)
- Multiple levels of protection components can safely absorb large spikes and provide highly effective RFI/EMI filtering - the most comprehensive protection available
- Extreme Voltage Shutdown guards against destructive wiring faults
- Two slide-out, swiveling light fixtures for rack illumination with dimmer control for lamp brightness (this feature is not present in the PM-PRODM)
- Precision magnetic circuit breakers with retractable shields to prevent accidental turn-off
- (9) accessory outlets, (4) for analog components, (4) with additional filtering for digital components, (1) 15 A front panel mounted convenience outlet

### FEATURES:

What sets the Metered Six's Pro Series apart from other conditioners is the quantity, quality, and configuration of the suppression devices used. These include MOV's, gas discharge tubes, fast-blow fuses, and high voltage inductors and capacitors. This unique combination can safely absorb and dissipate large spikes from nearby lightning strikes and other sources (up to 11,000 amps across any wiring mode - hot-neutral, hot-ground, or neutral-ground), as well as highly attenuate audible high frequency noise. Precise high-inrush magnetic circuit breakers avoid the false tripping often encountered with large reactive loads like power amps. An additional feature, Extreme Voltage Shutdown, fights a hazard particularly common in the entertainment industry: wiring faults – for example, accidental connection to 220V. It senses voltages that are so high that operation would be impossible (over 140V) and shuts the power down before damage can occur. LED status indicators ("Protection OK" and "Ground OK") monitor the integrity of the protection devices and grounding, and report if the protection is compromised.

There are three rack mount Metered Six Pro Series models. The PL-PROD and PL-PRODM Power Conditioner/Light Modules feature the familiar slide-out rack lights pioneered by Furman. These light modules utilize micro switches to turn each light tube off or on automatically when pushed in or pulled out. The PM-PRODM Power Conditioner/Monitor is for applications where lights are not needed. While the PL-PROD features a Digital voltmeter with laboratory accuracy, the PL-PRODM and PM-PRODM are supplied with True R.M.S. digital volt and current metering, which supply a highly accurate, reliable indication of voltage or current draw even for highly nonlinear loads like amplifiers, switching power supplies, or when the incoming AC line is distorted.

All Pro Series rack mount models come with a ten-foot, 12 AWG power cord, and have eight widely-spaced rear outlets that can accommodate bulky plug-mounted power supplies, as well as a front-panel switched outlet.



# PL-PLUSD PL-PLUSDM PM-8DM

## 15 AMP SERIES

- 15 amp / 1800 watt rating, with circuit breaker
- Laboratory precision grade digital volt meter and true RMS volt / current meter (+/- 1 VAC, +/- 0.1 amp)
- Two slide-out, swiveling light fixtures for rack illumination with dimmer control for lamp brightness (this feature is not present in the PM-8DM)
- (8) accessory outlets, (4) for analog components and (4) with additional filtering for digital components
- Triple-mode varistor spike and surge protection
- Multi-stage RFI/EMI filtering
- Ten foot heavy duty AC cord

### FEATURES:

The PL-PLUSD / PL-PLUSDM Power Conditioner/Light Module is the perfect accessory to any equipment rack, providing the basic power protection essential to every audio or video system. Install a PL-PLUSD or PL-PLUSDM in the top slot of your rack, and the eight switched AC outlets on the rear panel will power all your equipment while its two slide-out light fixtures provide discreet, illumination of their controls on stages, in studios, or in any dark place. A dimmer control lets you adjust the lamp brightness to just the right level.

The Metered Six 15 Amp Series protects your delicate electronic equipment by combining a high voltage surge and transient suppressor with an RFI/EMI interference filter. The fast-acting suppression circuit responds in nanoseconds, clamping spikes and surges to safe levels. The filter works to prevent noise from fluorescent lights, electric motors, radio transmitters, and similar sources of "electronic pollution" from leaking from the AC line into sensitive analog or digital circuits.

The PL-PLUSD and PL-PLUSDM lamps come supplied with 5-watt night-light bulbs. Replacements are readily available in 4-watt sizes at most supermarkets and hardware stores. Colored Christmas tree bulbs may also be used. Bulbs are easily replaced without removing the unit from the rack by unscrewing the cap on the end of each light tube.

The Metered Six 15 Amp products feature a master switch for the rear outlets. This switch glows red when the power is on. There is also a separate switch for the lamps, (PL-PLUSD and PL-PLUSDM) allowing you to check your equipment settings before applying power to it. The front-panel circuit breaker can be easily and quickly reset should any of these units be overloaded.



# METERED SIX

## SPECIFICATIONS

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### PL-PROD/PL-PRODM/PM-PRODM

Current rating:	20 amps, 2400 watts at 120 VAC
Input Voltage Range:	0 to 250 VAC without damage
Meter Accuracy:	Voltmeter: +/- 1 VAC; Ammeter: +/- 0.1 amps
Spike Protection Modes:	Line to Neutral, Neutral to Ground, Line to Ground
Clamping Voltage, all modes:	Initial turn-on at 200 volts; TVSS rating 400V peak at 500 amps, L-N, L-G, N-G, (tested to UL1449) (TVSS rating 400V peak, L-N; 680V peak, L-G, N-G)
Response time:	1 nanosecond
Maximum surge current:	11,000 amps (8 x 20 mS pulse)
Maximum spike energy:	550 joules total
Noise attenuation:	Differential mode: Greater than 40 dB; Common mode: greater than 60 dB; Both 1 to 200 MHz
Dimensions:	1.75" (4.45 cm) H x 19" (48.25 cm) W x 10" (25 cm) D
Weight:	6 lbs (2.7 kg)
Construction:	Steel chassis, zinc chromate plating; brushed and black; Anodized aluminum front panel; glass epoxy printed circuit boards.
Power consumption:	12 watts
Safety Information:	The PL-PROD, PL-PRODM, and PM-PRODM are N.R.T.L.-C listed.

### PL-PLUSD/PL-PLUSDM/PM-8DM

Current rating:	15 amps, 1800 watts at 120 VAC
Input Voltage:	0 to 135 VAC without damage
Meter Accuracy:	Voltmeter: +/- 1 VAC; Ammeter: +/- 0.1 amps
Spike Protection Modes:	Line to Neutral, Neutral to Ground, Line to Ground
Clamping Voltage, all modes:	Initial turn-on at 200 volts; TVSS rating of 400 volts peak at 500 amps, L-N, N-G, L-G (tested to UL-1449)
Response time:	1 nanosecond
Maximum surge current:	6,500 amps
Maximum spike energy:	80 joules per mode; 240 joules total
Noise attenuation:	Differential mode: Greater than 40 dB; Common mode: greater than 60 dB; Both 1 to 200 MHz
Dimensions:	1.75" H x 19" W x 8" D.
Weight:	6 lbs (2.7 kg).
Construction:	Steel chassis, zinc chromate plating; .125" brushed and black anodized aluminum front panel; glass epoxy circuit boards.
Power consumption:	12 watts
Safety Information:	The PL-PLUSD, PL-PLUSDM, and PM-8DM are N.R.T.L.-C listed.

### FURMAN PRODUCTS

Please contact us by phone, fax or e-mail for a free copy of our latest color catalog.



Furman Sound, Inc.  
1997 South McDowell Blvd.  
Petaluma, California 94954-6919 USA  
Phone: 707-763-1010  
Fax: 707-763-1310  
Web: [www.furmansound.com](http://www.furmansound.com)  
E-mail: [info@furmansound.com](mailto:info@furmansound.com)  
Designed and engineered in the U.S.A.  
Manufactured in China.