

PL-8/PL-PLUS

FURMAN

Power Conditioner and Light Module, 15A



PL-8 FEATURES

- Two slide-out, swiveling light fixtures for rack illumination
- Dimmer control for lamp brightness
- Eight accessory outlets in rear controlled by front switch
- Triple-mode varistor spike and surge protection
- RFI filtering
- 15 amp rating, with circuit breaker
- Separate switch for lamps
- Three year limited warranty

PL-PLUS FEATURES

- All PL-8 features, plus...
- Line voltage monitor reads 90 to 128 volts
- Improved RFI filtering with multi-stage filter
- Ten foot heavy duty AC cord

Power line disturbances are real and 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.

DESCRIPTION

The PL-8 Power Conditioner and 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-8 in the top slot of your rack, and the eight switched AC outlets on the rear panel will power up 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 PL-8 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-8's lamps come supplied with 7 watt night-light bulbs. Replacements are readily available in 4 watt or 7 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 PL-8 has a master switch for the rear outlets that glows red when the power is on. There is also a separate switch for the lamps, allowing you to check your equipment settings before applying power to it. The front-panel circuit breaker can be easily and quickly reset should the PL-8 be overloaded. Model PL-PLUS is an enhanced version of the PL-8, offering improved noise filtering and an AC voltmeter. The

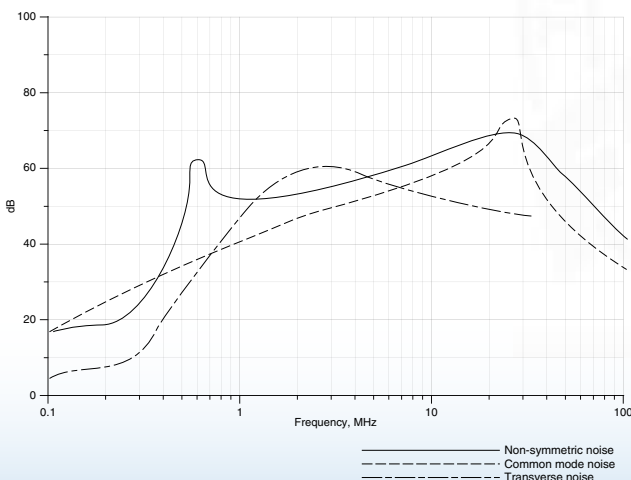


20 LED bar-graph voltmeter reads from 90 to 128 volts in 2-volt steps. The normal range voltages are indicated in green, with moderately and extremely high or low voltages in yellow and red respectively. The voltmeter's accuracy is ± 2 volts. It can easily be recalibrated if necessary. The PL-PLUS also features a longer, 10 foot heavy-duty 14 gauge power cable. In addition, it offers a sophisticated RFI filter network with a greatly improved capacity for stopping line noise. This filter incorporates a toroidal inductor and three high-voltage capacitors to achieve a common-mode noise attenuation of over 50 dB at 10 MHz (see graph overleaf below).

OPTIONS

- **Models PL-8 E, PL-PLUS E:** "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 reads from 180 to 256 VAC, in 4 volt steps.
- **Models PL-PRO:** 20 amp version of the PL-PLUS with many additional high-end features.

Filter Noise Attenuation (PL-PLUS)
(Insertion Loss measured in a 50 Ω system)



THREE YEAR LIMITED WARRANTY

The Furman PL-8 and PL-PLUS are protected by a limited three-year warranty covering defects in materials and workmanship.

SPECIFICATIONS

- Current rating:**
15 Amps ("E" versions 10 Amps)
- Input Voltage:**
85 to 135 VAC ("E" versions 190 to 270 VAC)
- Voltmeter Accuracy:**
PL-PLUS only: ± 2 VAC, calibrated with internal trimpot adjustments
- Spike Protection Modes:**
Line to neutral, neutral to ground, line to ground
- Spike Clamping Voltage:**
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) (Initial turn-on for "E" versions, 390 Volts peak L-N; 680 Volts peak N-G, L-G)
- Response time:**
1 nanosecond
- Maximum surge current:**
6,500 Amps
- Maximum spike energy:**
80 Joules per mode, 240 Joules total protection ("E" versions 130 Joules L-N, 160 Joules N-G, L-G, 450 Joules total)
- Noise attenuation:**
Transverse and common modes: 20 dB at 200 kHz, rising to >40 dB, 1 to 100 MHz
- Mechanical:**
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 printed circuit boards.
- Power Consumption:**
PL-8, 14 Watts
PL-PLUS, 20 Watts
- Safety Agency Listings:**
UL, CUL, CE, NRTL-C