



# ELITE-16 PF E

LINEAR FILTERING AC POWER SOURCE

**FURMAN**

*Unparalleled Power Purification and Protection*

## FEATURES

- Power Factor correction provides surplus current for power-starved amplifiers
- Linear Filtering Technology (LiFT) for unequaled audio / video clarity
- Series Multi-stage Protection (SMP) for virtually maintenance-free AC surge suppression
- Zero ground contamination circuitry protects critical digital components
- Ultrasonic filtering isolates digital and video circuits from analog components
- Four pairs of TiVO friendly - High Definition ready cable/satellite loop through protectors

## DESCRIPTION

For over 31 years, Furman has pioneered the development of AC power products for the most demanding audio, video, and broadcast professionals. Though the need for pristine AC power is nothing new, the Elite-16 Power Factor E's technology and its unique implementation are revolutionary and without peer.

Today's power lines are plagued with RF and EMI noise. When connecting sensitive equipment to your home's power outlet, AC

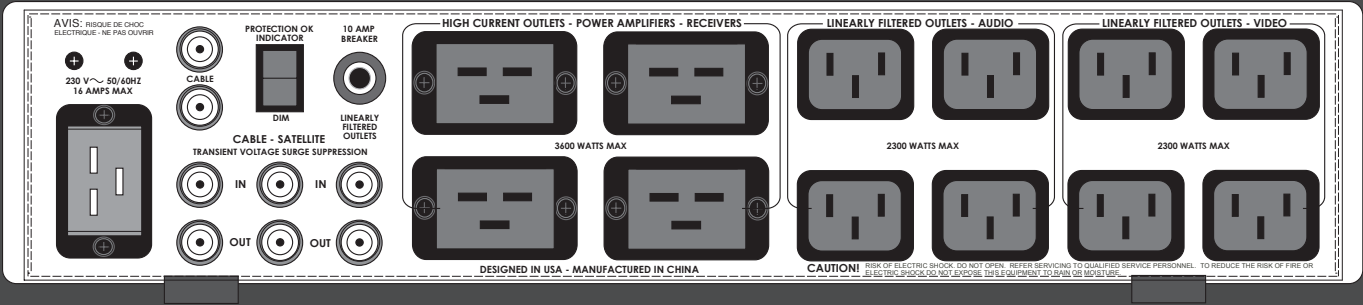
noise couples into your system's critical components. This low level content is critical because it relays the crucial harmonics and ambience in audio, as well as the depth and clarity in video. With Furman's exclusive Linear Filtering Technology, televisions, projectors, DVD players, amplifiers, and processors are fed linearly-filtered AC power. This dramatically reduces noise, ensuring consistent peak operation regardless of load conditions or the time of day. For the first time, you will see and hear your theater or audio system as it should be – uncompromised.

Another critical feature is our exclusive Series Multi-stage Protection. This virtually maintenance-free surge suppression assures the highest level of AC protection possible, without sacrificing itself even when the offending surge is severe – no damaged equipment, no service calls, no down time.

At the center of the Elite-16 PF E is our unique Power Factor Correction Circuit. For the first time, low-level analog, digital, and video components are not modulated or distorted via the power amplifier's extreme AC current demands. Further, the power amplifier sees a highly filtered, extremely low-impedance supply of AC power. The Elite-16 PF E also has a continuous current reserve in excess of 3 Amps (over 45 amps peak charge) for the most extreme transient power demands. This technology enables power amplifiers, receivers and powered subwoofers to operate at peak efficiency, reaching levels of performance previously unattainable.

No longer will your amplifier's performance be at the mercy of your home's incoming AC power or inferior AC protection/filtering devices. The net effect is as if your power amplifier virtually doubled in power and improved immeasurably in quality.

When employing the Elite-16 PF E, you will immediately notice far clearer, stunningly focused sound and visual images from your system. Video presentation will be crisp and colors true with greater gray and black scale definition, as well as noticeably improved depth and clarity. Sonic transients will be startlingly fast with bass fundamentals that shake foundations with their weight and visceral impact. Mid and high frequencies will bloom with sweet, non-glaring ease while imaging improves dramatically, all the while remaining true to your system's inherent virtues.



Elite-16 PF E Rear Panel (Line Drawing)

ELITE-16 PF E SPECIFICATIONS

AC Current Capacity:

- Input - 16 Amp capacity required
- Output - 13-16 Amps RMS\* (maximum, all outlets combined - continuous)

Linear Noise Attenuation:

- Transverse (Differential) Mode:
  - >40 dB from 10Khz. - 100 kHz. >80 dB from 100 KHz. - 1GHz.
  - (Linear attenuation curve from 0.05 - 100 ohms line impedance)

Transient Voltage Surge Suppression:

- 266 VAC - Series Multi-stage Protection - Non-Sacrificial with Zero Ground Contamination.
  - (376 V peak clamping @ 6000V 3000A input)
- Extreme Voltage Shutdown (>275 VAC)
- Cable / Satellite (less than .1dB insertion loss)

Power Consumption:

- 2 Watts for display and control circuits independent of actual load.

Outlets:

- 4 (IEC - 10 Amp C-13 linearly filtered outlets - rear panel)
- 4 (IEC - 10 Amp C-13 linearly filtered outlets with additional ultrasonic filtering for digital or video components)
- 4 (IEC - 16 Amp C-19 transient power factor corrected amplifier outlets - with over 45 amps peak charge reserve)

Dimensions:

- 101 mm H x 432 mm W x 375 mm D (Standard 2 RU height without feet)

Weight:

- 8 kg.

Safety Agency Listing:

- TUV - CE

Warranty:

- The Furman ELITE-16 PF E is protected by a three year limited warranty covering defects in materials and workmanship. (See manual for details)

\* (Due to the power factor correction circuit, available RMS power varies with the reactance of the load (vector). However, this only affects the circuit breaker for continuous RMS current draw, typically it will be close to the maximum input current. Since power amplifiers will require high transient current demands, the IT-Reference-16 E will never succumb to current compression. Quite the opposite, in fact, it will buffer the power amplifier's power supply, while lowering the AC input impedance, allowing power amplifiers to work more efficiently).

Engineered in the USA

Furman Sound, Inc. • 1997 South McDowell Blvd. • Petaluma, CA. 94954 USA  
Phone: (707) 763-1010 • Fax: (707) 763-1310 • [www.FurmanSound.com](http://www.FurmanSound.com)