

# FURMAN® P-2400 IT

PRESTIGE SERIES  
SYMMETRICALLY BALANCED POWER CONDITIONER



Designed for the most critical, ultra-low noise installations, the P-2400 IT is a symmetrically balanced power conditioner, providing unparalleled AC noise reduction and 100% isolation from the power grid for the lowest noise floor possible. The P-2400 IT features over 80 dB of common-mode and over 50 dB of differential-mode noise reduction for recording, mastering, and broadcast studios, or anywhere noise-free performance is critical. With 100% isolation from line, neutral, and ground, the P-2400 IT is also ideal for breaking AC ground loops without rewiring or hiring an electrician.

The P-2400 IT features a specially wound and shielded toroidal balanced isolation transformer specifically designed to reduce hum pickup by sensitive equipment when ultra-low-noise is a must. Additionally, Furman's revolutionary Series Multi-Stage Protection (SMP) featuring our Extreme Voltage Shutdown (EVS) circuits, and our exclusive Linear Filtering Technology (LiFT) combine to ensure what our customers have grown to expect from Furman - uncompromised protection and purification.



*Furman's exclusive SMP Technology provides the highest level of surge & spike protection available*



*LiFT offers linear AC power filtering to ensure clean power for unequaled audio & video clarity*



*Advanced EVS circuitry detects dangerous voltage irregularities and safely powers down itself and connected equipment in unsafe conditions*



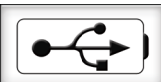
*100 % isolated symmetrically balanced power for the lowest noise floor possible*



*Large LED voltmeter/ammeter displays incoming voltage and output current draw*



*Protection OK, Extreme Voltage and color-coded Voltage Range indicators provide information on power quality and operational status of unit*



*Front panel USB convenience outlet allows you to charge most media devices or power a USB lamp*



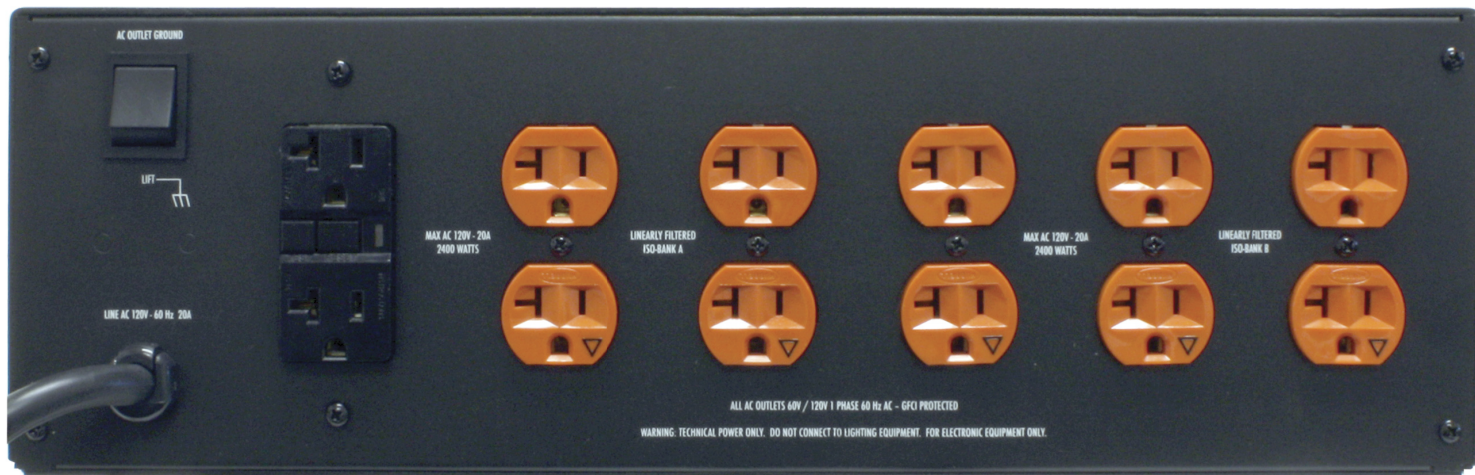
*Isolated outlet banks minimize inter-component interference and noise contamination*



*20 amp rating featuring a high inrush magnetic circuit breaker for added protection*



*Fourteen total outlets (Twelve rear panel outlets and two front panel convenience outlets)*



## **SMP (Series Multi-Stage Protection)**

Audio/video professionals can never accept down time, corrupted data, or unreliability. It is for this reason that a virtually non-sacrificial transient voltage surge suppression systems, such as SMP, is the best choice for critical applications. With Furman's SMP, there is zero downtime. In fact, these circuits can typically handle multiple 6000 volts or 3000 amp pulses without sustaining any damage.



## **LiFT (Linear Filtering Technology)**

With Furman's LiFT, differential AC noise is reduced linearly, across a very wide bandwidth, even extending into the video frequencies. This results in a lower noise floor for your audio system, improved picture on your video display, and protection from possible data corruption and losses caused by low-level differential AC noise fed into digital systems.



## **EVS (Extreme Voltage Shutdown)**

Furman's EVS constantly monitors incoming voltage, and once any overvoltage condition over 140 volts AC is detected, a relay opens which immediately shuts down the unit and all connected equipment. An indicator light informs the user there is a problem, and once the condition has been corrected, the unit may be reset and will operate normally.



## **Symmetrically Balanced Power**

For the most critical, low-noise applications, Furman's Symmetrically Balanced Power provides an invisible noise floor, while completely breaking ground loops without dismantling equipment or rewiring. This noise reduction is extraordinarily efficient and linear across a huge frequency range. The transformer has completely re-worked your incoming AC and the result is perfectly clean power devoid of the masking effects of AC noise with 100% isolation from line, neutral, and ground.

## **SPECIFICATIONS** *(Note - Preliminary Specifications, subject to change)*

**MAXIMUM CURRENT:**  
20 AMPS

**LINE CORD:**  
12AWG X 3, 10FT LONG, NEMA 5-20 PLUG

**RECEPTACLES:**  
10 ULTRA-LOW RESISTANCE ISOLATED-GROUND HUBBELL  
OUTLETS, 2 GFCI FRONT PANEL OUTLETS

**OPERATING VOLTAGE:**  
90 to 139 VAC, 60 Hz

**OVER VOLTAGE SHUTDOWN:**  
140 VAC NOMINAL

**SPIKE PROTECTION MODES:**  
LINE TO NEUTRAL, ZERO GROUND LEAKAGE

**SPIKE CLAMPING VOLTAGE:**  
188 V PEAK @ 3,000 AMPS

**RESPONSE TIME:**  
1 NANOSECOND

**MAXIMUM SURGE CURRENT:**  
6,500 AMPS

**NOISE ATTENUATION (TRANSVERSE MODE):**  
10 dB @ 10kHz, 40 dB @ 100 KHz, 50 dB @ 500kHz

**NOISE ATTENUATION (COMMON MODE):**  
80 dB @ 20 kHz, 40 dB @ 20 kHz to 1MHz

**POWER CONSUMPTION:**  
26 WATTS FOR DISPLAY AND CONTROL CIRCUITS

**DIMENSIONS:**  
5.25" H X 19" W X 14" D (133MM H X 483MM W X 356MM D)

**WEIGHT:**  
90lbs. (41kg.)

**WARRANTY:**  
5 YEARS