



IT - REFERENCE 20

DISCRETE SYMMETRICAL AC POWER SOURCE

FURMAN

Unparalleled Power Purification and Protection

FEATURES

- Symmetrical balanced power cancels hum inducing noise from audio and video
- Five discrete power banks eliminate inter-component interference and noise
- Power Factor Correction provides surplus current for power-starved amplifiers
- Linear Filtering Technology for unequaled audio / video clarity
- Virtually maintenance-free AC surge suppression
- Detachable surge suppression module for telco and cable / satellite connectors

DESCRIPTION

For over 32 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 IT-REFERENCE 20's technology and its unique implementation are revolutionary and without peer.

The extreme AC demands encountered in the professional audio/video arena have required technological developments far in excess of typical home theater/audiophile power products. In studios, live sound, and

broadcast facilities, breakdown is unacceptable. Equipment failure or poor performance is costly. The same is true of today's home theater. Our solution based technology, extensive engineering expertise, and robust build quality have answered the challenge of today's corrupted power lines, and led to the creation of our flagship power conditioner, the IT-REFERENCE 20.

Today's AC lines are plagued with ever increasing noise. When AC noise couples into your system's critical components, it masks low level signals and cripples performance. This low level content is critical because it relays

the crucial harmonics and ambience in audio, and depth and clarity in video. With the IT-REFERENCE 20's exclusive Discrete Symmetrical Power, video screens, projectors, CD-DVD players, pre-amplifiers, and scalers are fed linearly-filtered ultra-low-noise symmetrical power. This dramatically reduces AC noise, ensuring peak operation of your critical components. For the first time, you will see and hear your theater or audio system as it should be – uncompromised.

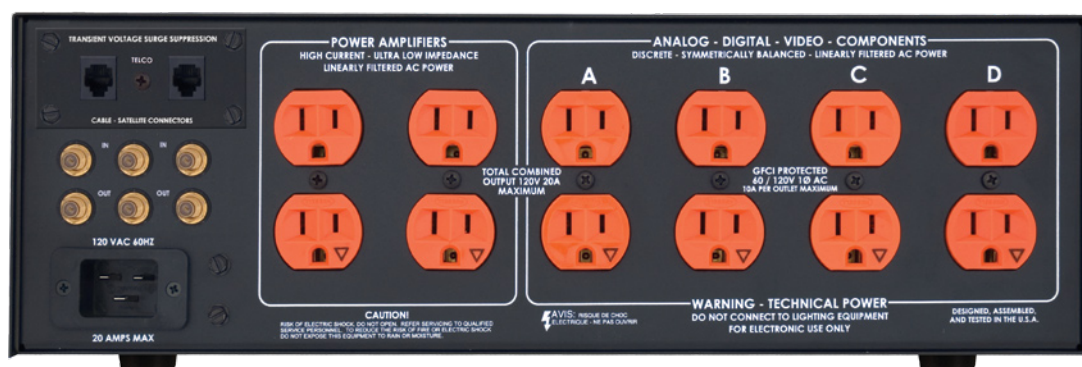
Further, our Discrete Symmetrical Power features total isolation between four discrete AC outlet banks. This positively breaks noise-inducing ground loops, hum bars, and power supply backwash between interconnected equipment, all without compromising electrical safety. This enables a plasma screen to function without AC ground contamination from a compact disc player, or a preamplifier-processor to function free of performance-degrading digital noise from a satellite receiver.

The IT-REFERENCE 20 also employs 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 IT-REFERENCE 20, in fact, has in excess of 9 Amps of continuous current reserve (over 80 amps peak charge) for the most extreme peak power demands. This technology enables power amplifiers and powered subwoofers to work at peak efficiency and reach 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 doubled in power and improved immeasurably in quality.

When employing the IT-REFERENCE 20 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.



IT-REFERENCE 20 SPECIFICATIONS

AC Current Capacity:

- Input - 20 Amp capacity required
- Output - 12 - 20 Amps RMS * (maximum, all outlets combined - continuous)

Linear Noise Attenuation:

- Transverse (Differential) Mode:
 - >20 dB from 1Khz. - 2 kHz. >40 dB from 2 kHz. - 100 kHz. >80 dB from 100 kHz. - 1GHz.
 - (Linear attenuation curve from 0.05 - 100 ohms line impedance)

- Common Mode (video outlets):
 - >90 dB, 10Hz. - 50 kHz. >40 dB 50kHz. - 1MHz.

Outlets:

- 8 (symmetrical balanced)
- 4 (power factor corrected amplifier circuit - 9 amps RMS reserve - resistive load - over 80 amps peak charge)

Transient Voltage Surge Suppression:

- 120 VAC - Series Multi-Stage Protection - Non-Sacrificial with Zero Ground Contamination.
- Telco
- Cable / Satellite (less than .1dB insertion loss)

Dimensions:

- 5.75" H x 17" W x 16.25" D (Standard 3 RU height without feet)

Weight:

- 83 lbs.

Power Consumption:

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

Safety Agency Listing:

- C-ETL

5-Year Connected Equipment Warranty:

- The Furman IT-REFERENCE 20 features a five year warranty covering the unit and connected equipment. (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. Since power amplifiers will require high transient current demands, the IT-Reference-20 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 and assembled in the USA

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