

Home Theater

PRODUCT APPLICATION
INFORMATION

FURMAN

FURMAN AC POWER MANAGEMENT APPLICATIONS

Home Theater Power Management - Home Entertainment -Audiophile

The following application charts are to assist you when recommending Furman Home Theater AC power products.

As no two systems are ever identical, this is only a general recommendation! For the sake of simplicity, we have made *general* recommendations.

Please note the “special applications” pages (M-Q) which show supplementary Furman products that could be needed for many of the prior applications (A - L).

Also, applications (R - V) specifically cover 2-Channel Audiophile applications.

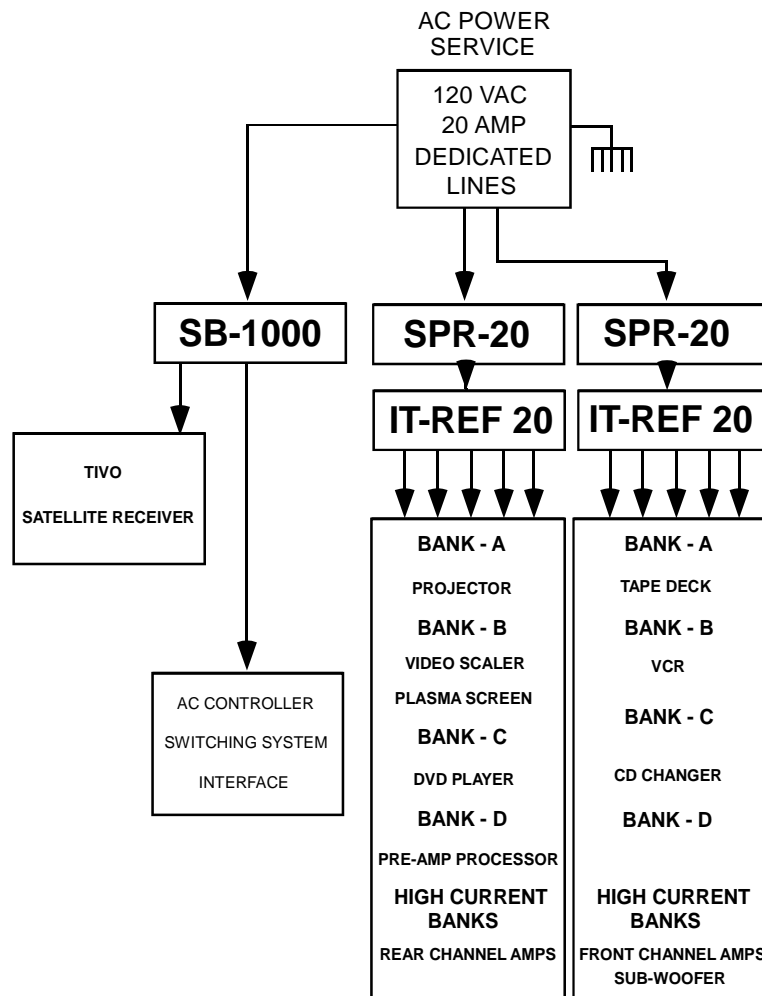
Furman Engineering assistance is available M-F 9:00am to 4:00pm Pacific Time. Call Garth Powell (707) 763-1010 ext. #125, or e-mail garth@furmansound.com . We will be happy to assist in specific recommendations for your installation.

All documents are confidential - for Furman representatives and dealer contractors only.

Home Theater Power Management - Furman Applications

Example A - Home Theater Installation (\$100K +)

For applications with AC source voltage below 116VAC, or above 124VAC.



AC POWER REGULATION:

The Furman SPR-20 is an AC Regulator. The purpose of AC regulation is to insure that a constant 120VAC OUTPUT is feed to critical components, even when the *INCOMING* power is as low as 110 VAC, or as high as 130 VAC. The RA-1220 will provide a constant 120VAC output +/- 1VAC (typically with input voltage from 113-127VAC). This aids in keeping equipment from over-heating, while assuring *peak performance* from power amplifiers. An AC line that is 10VAC low, may severely limit a power amplifiers ability to deliver its' specified power. With Furman's AC SPR-20, this problem is corrected.

ISOLATED SYMMETRICALLY BALANCED POWER CONDITIONING:

The Furman IT-REFERENCE-15 and IT-REFERENCE-20 are AC Power Conditioners. These units greatly reduce the AC noise that plagues today's power lines. AC noise greatly inhibits the performance of audio and video reproduction, by smearing, distorting, and masking the low level detail that *DEFINES* high resolution sound and picture quality. By virtually eliminating these noises and distortions, premium systems are able to *CONSISTENTLY* deliver peak performance without compromise. Further, Furman's Isolated Symmetrically Balanced technology aids in preventing the audio buzz, and video hum bars that can inhabit complex theater installations.

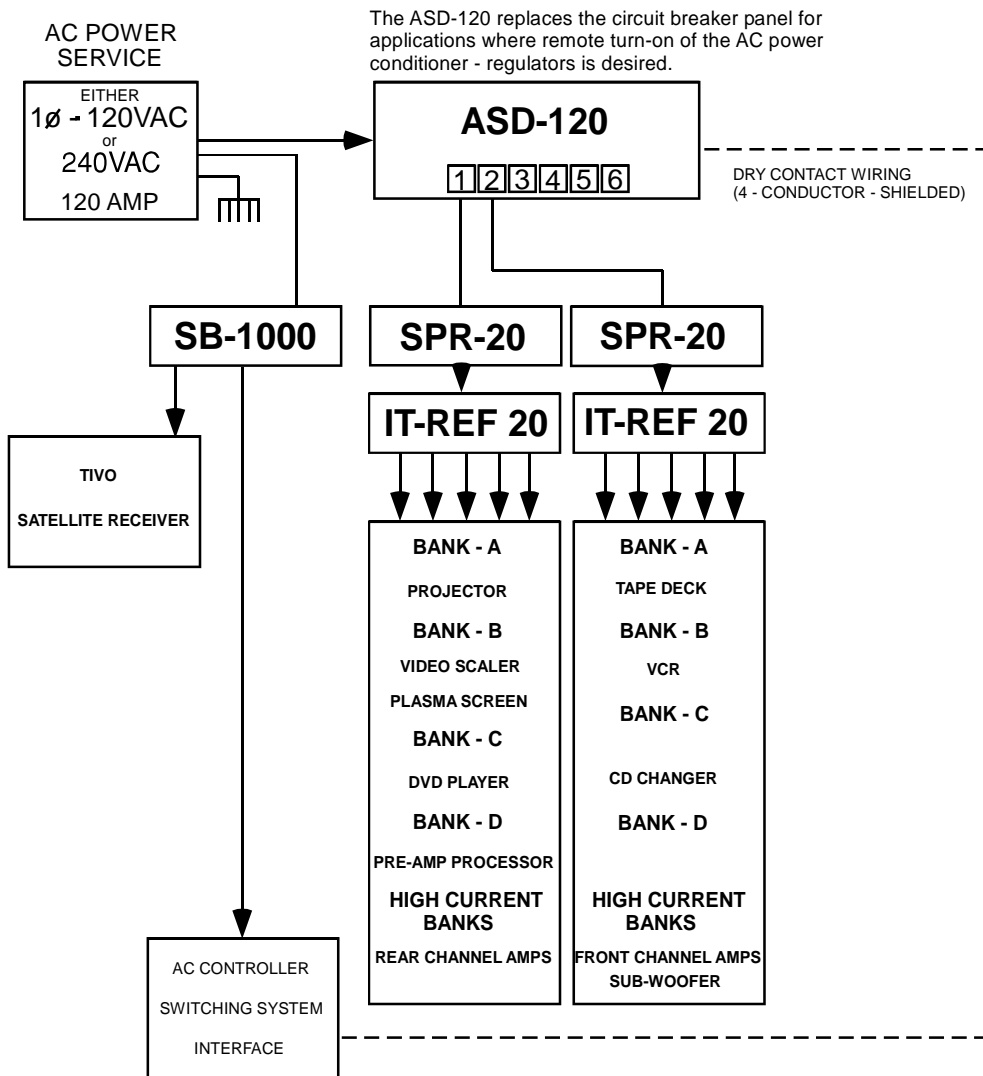
UNINTERRUPTIBLE POWER SUPPLY:

The Furman SB-1000 is a 5 amp, 1RU single-rack space mountable, low heat uninterruptible power supply. Additionally, it features zero fan noise for use in dedicated listening areas. The SB-1000 has over 30 minutes of back-up power for components with critical memory circuits such as controller switching systems and satellite receivers. Due to the RF oscillator circuits utilized in all UPS's, we do not recommend using *any* UPS product for high resolution Audio or Video components such as amplifiers, processors, projectors and video screens.

Home Theater Power Management - Furman Applications

Example B - Home Theater Installation (\$100K +)

For applications with AC source voltage below 116VAC, or above 124VAC.



AC POWER REGULATION:

The Furman SPR-20 is an AC Regulator. The purpose of AC regulation is to insure that a constant 120VAC OUTPUT is feed to critical components, even when the *INCOMING* power is as low as 110 VAC, or as high as 130 VAC. The RA-1220 will provide a constant 120VAC output +/- 1VAC (typically with input voltage from 113-127VAC). This aids in keeping equipment from over-heating, while assuring *peak performance* from power amplifiers. An AC line that is 10VAC low, may severely limit a power amplifiers ability to deliver its' specified power. With Furman's AC SPR-20, this problem is corrected.

ISOLATED SYMMETRICALLY BALANCED POWER CONDITIONING:

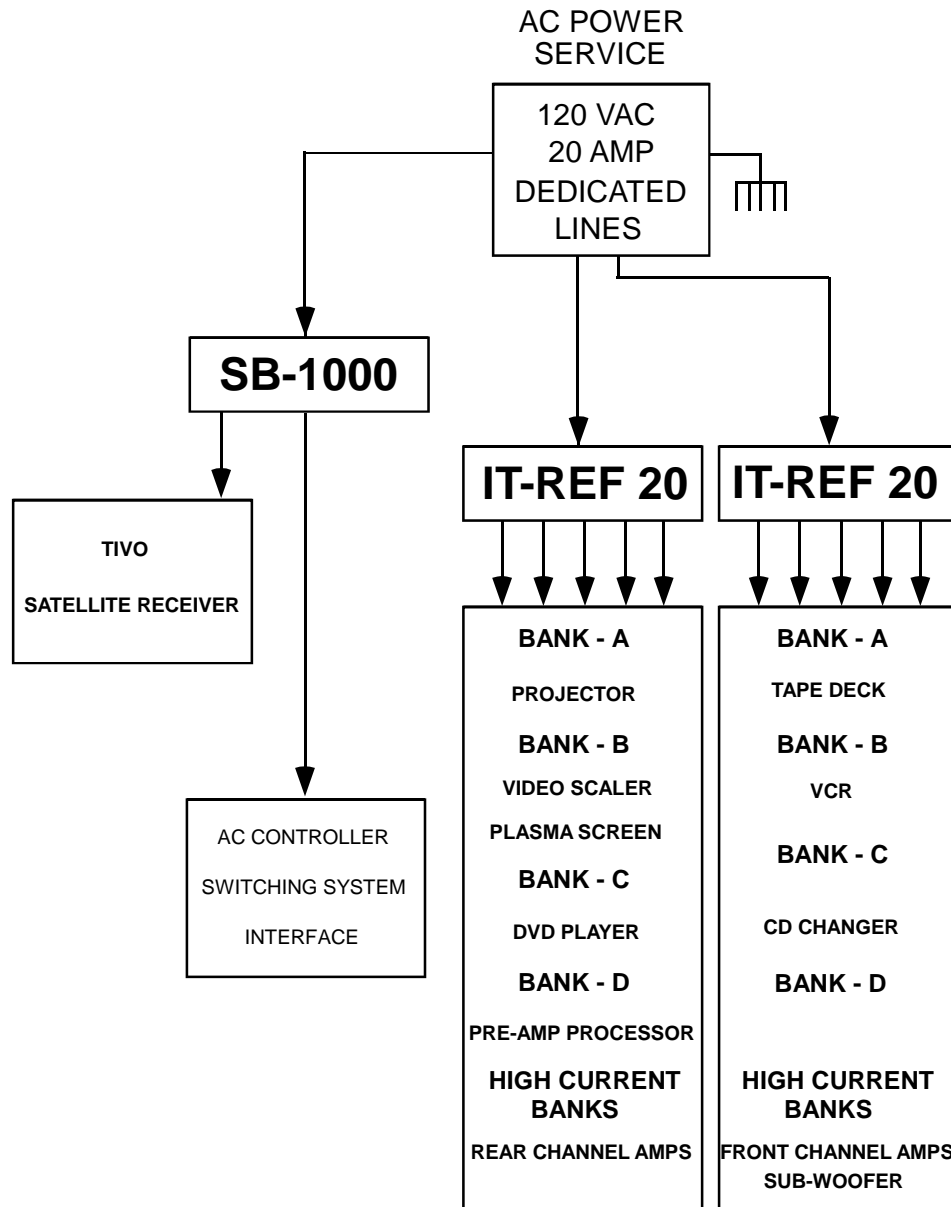
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Home Theater Power Management - Furman Applications

Example C - Home Theater Installation (\$75K +)



ISOLATED SYMMETRICALLY BALANCED POWER CONDITIONING:

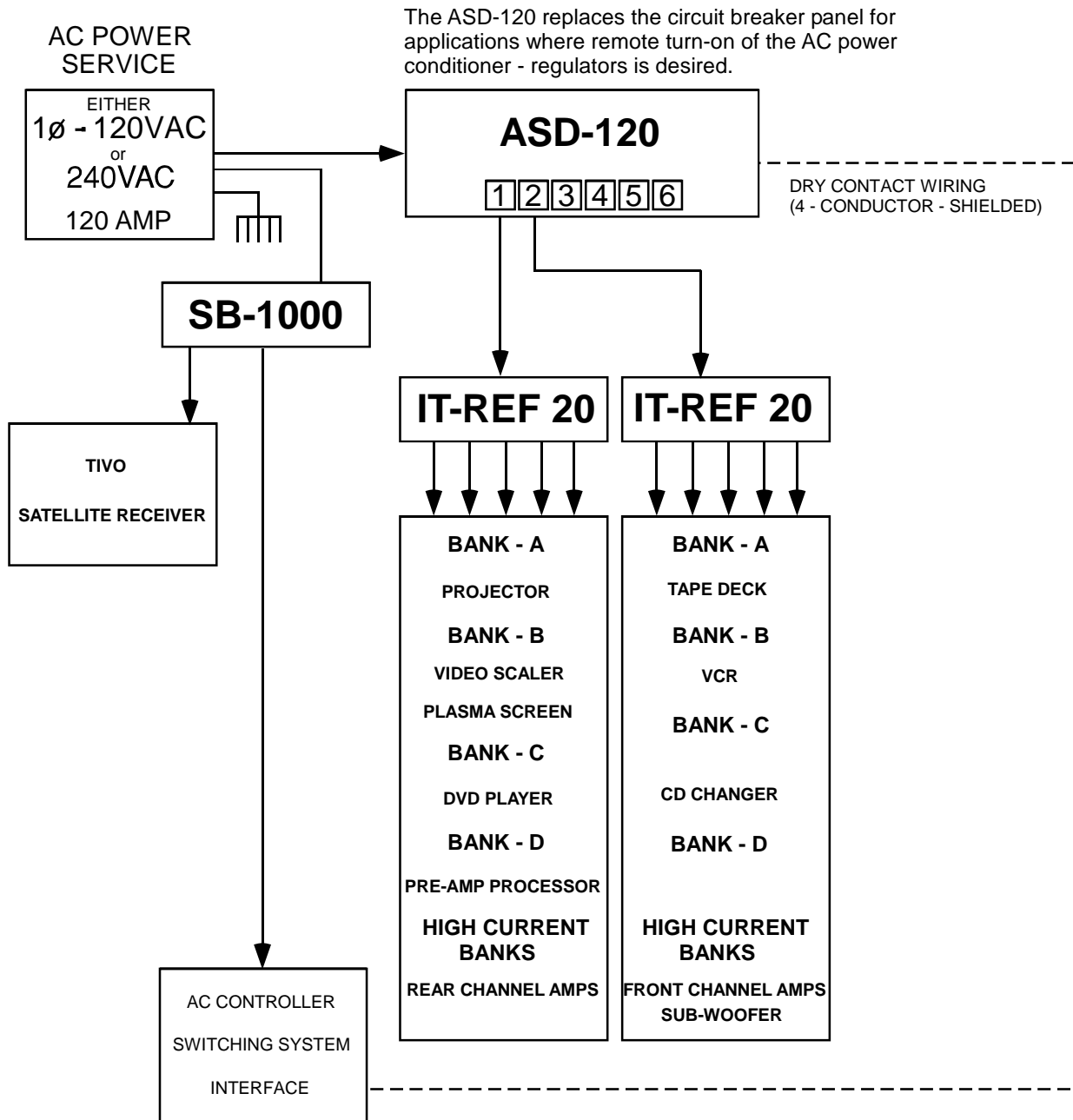
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UNINTERRUPTIBLE POWER SUPPLY:

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Home Theater Power Management - Furman Applications

Example D - Home Theater Installation (\$75K +)



ISOLATED SYMMETRICALLY BALANCED POWER CONDITIONING:

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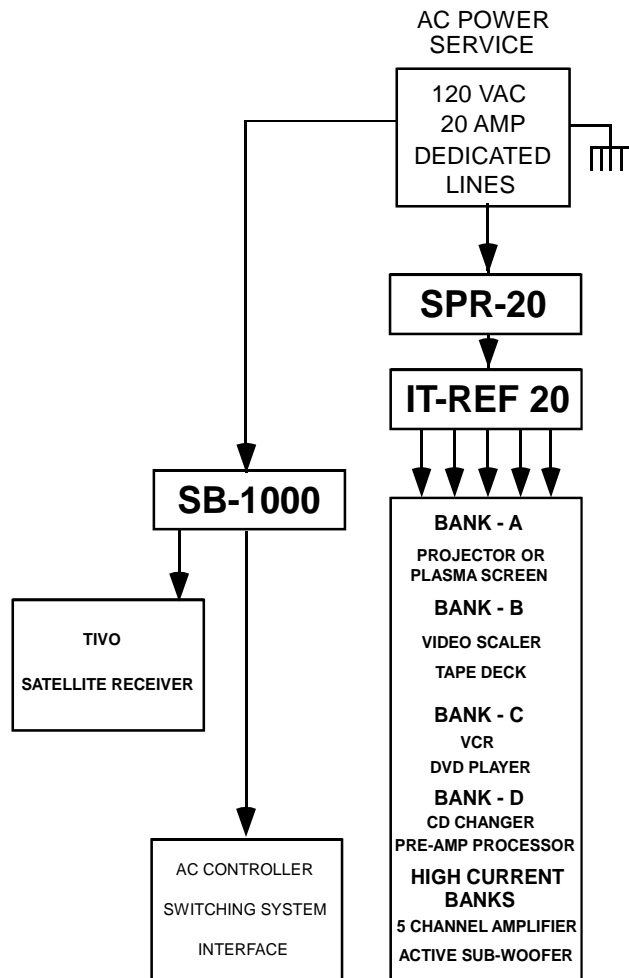
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Home Theater Power Management - Furman Applications

Example E - Home Theater Installation (\$50K +)

For applications with AC source voltage below 116VAC, or above 124VAC.



AC POWER REGULATION:

The Furman SPR-20 is an AC Regulator. The purpose of AC regulation is to insure that a constant 120VAC OUTPUT is feed to critical components, even when the *INCOMING* power is as low as 110 VAC, or as high as 130 VAC. The RA-1220 will provide a constant 120VAC output +/- 1VAC (typically with input voltage from 113-127VAC). This aids in keeping equipment from over-heating, while assuring *peak performance* from power amplifiers. An AC line that is 10VAC low, may severely limit a power amplifiers ability to deliver its' specified power. With Furman's AC SPR-20, this problem is corrected.

ISOLATED SYMMETRICALLY BALANCED POWER CONDITIONING:

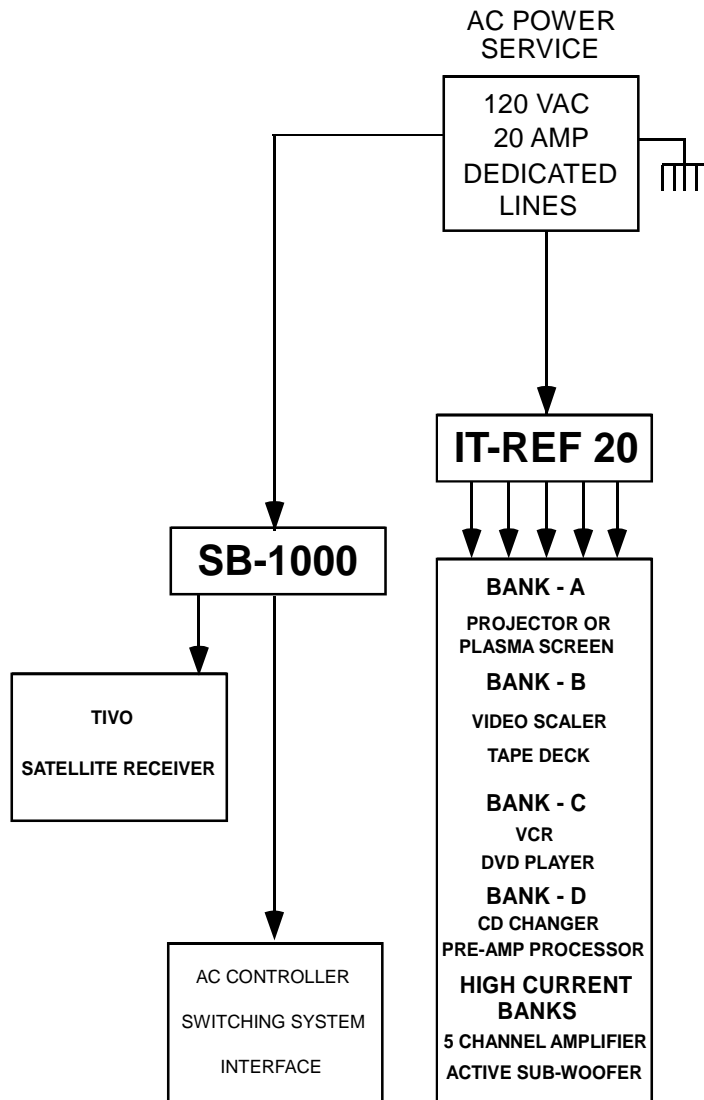
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UNINTERRUPTIBLE POWER SUPPLY:

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Home Theater Power Management - Furman Applications

Example F - Home Theater Installation (\$50K +)



ISOLATED SYMMETRICALLY BALANCED POWER CONDITIONING:

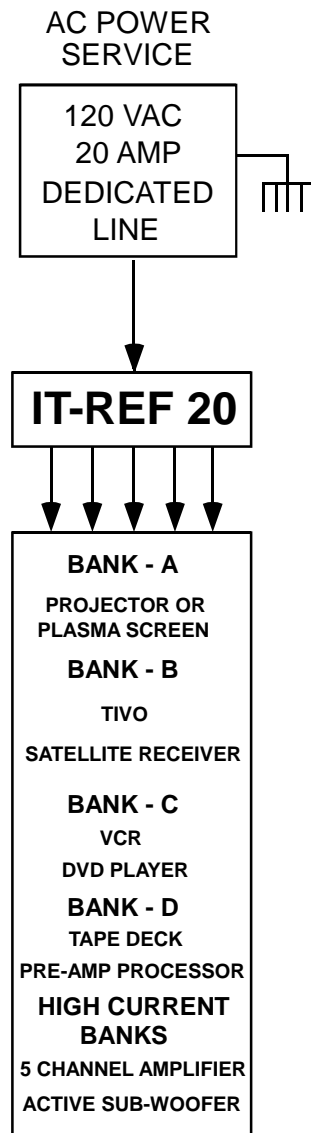
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Home Theater Power Management - Furman Applications

Example G - Home Theater Installation (\$25K +)



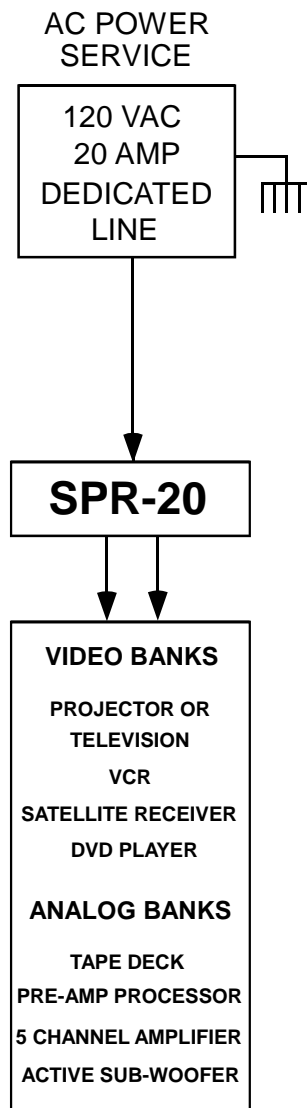
ISOLATED SYMMETRICALLY BALANCED POWER CONDITIONING:

The Furman IT-REFERENCE-15 and IT-REFERENCE-20 are AC Power Conditioners. These units greatly reduce the AC noise that plagues today's power lines. AC noise greatly inhibits the performance of audio and video reproduction, by smearing, distorting, and masking the low level detail that DEFINES high resolution sound and picture quality. By virtually eliminating these noises and distortions, premium systems are able to CONSISTENTLY deliver peak performance without compromise. Further, Furman's Isolated Symmetrically Balanced technology aids in preventing the audio buzz, and video hum bars that can inhabit complex theater installations.

Home Theater Power Management - Furman Applications

Example H - Home Theater Installation (\$25K +)

For applications with AC source voltage below 116VAC, or above 124VAC.

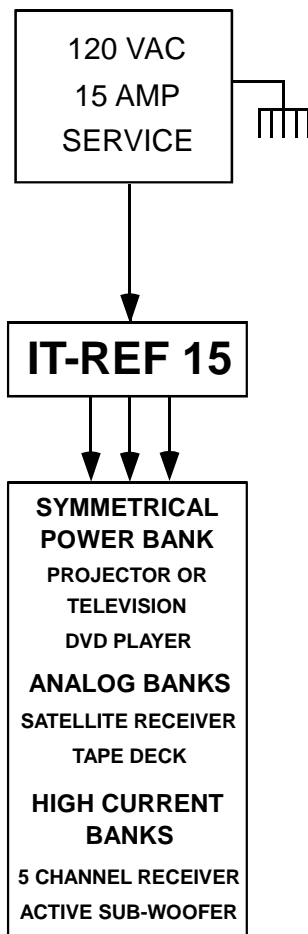


AC POWER REGULATION:

The Furman SPR-20 is an AC Regulator. The purpose of AC regulation is to insure that a constant 120VAC OUTPUT is feed to critical components, even when the *INCOMING* power is as low as 110 VAC, or as high as 130 VAC. The RA-1220 will provide a constant 120VAC output +/- 1VAC (typically with input voltage from 113-127VAC). This aids in keeping equipment from over-heating, while assuring *peak performance* from power amplifiers. An AC line that is 10VAC low, may severely limit a power amplifiers ability to deliver its' specified power. With Furman's AC SPR-20, this problem is corrected.

Home Theater Power Management - Furman Applications

Example I - Home Theater Installation (\$15K +)

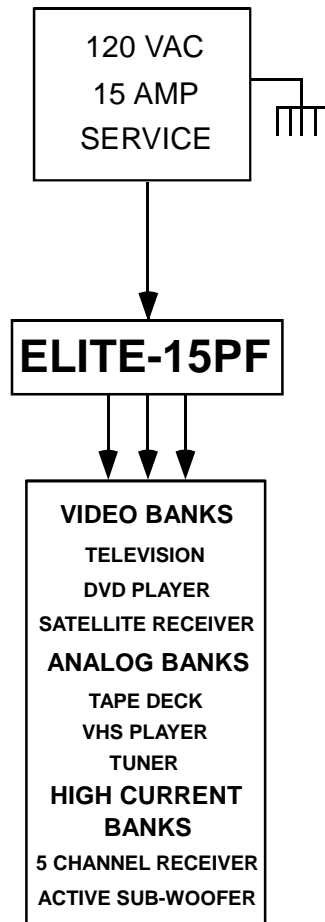


ISOLATED SYMMETRICALLY BALANCED POWER CONDITIONING:

The Furman IT-REFERENCE-15 and IT-REFERENCE-20 are AC Power Conditioners. These units greatly reduce the AC noise that plagues today's power lines. AC noise greatly inhibits the performance of audio and video reproduction, by smearing, distorting, and masking the low level detail that DEFINES high resolution sound and picture quality. By virtually eliminating these noises and distortions, premium systems are able to CONSISTENTLY deliver peak performance without compromise. Further, Furman's Isolated Symmetrically Balanced technology aids in preventing the audio buzz, and video hum bars that can inhabit complex theater installations.

Home Theater Power Management - Furman Applications

Example J - Home Theater Installation (\$5K +)

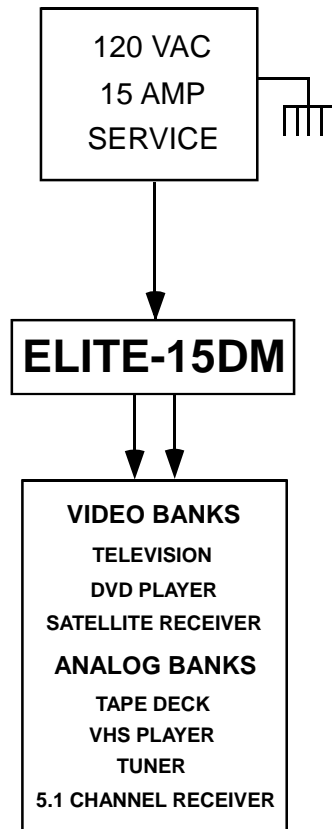


LINEAR FILTERING POWER CONDITIONING WITH POWER FACTOR CORRECTION:

The Furman ELITE-15PF is a linear filtering AC Power Conditioner. This unit greatly reduces the AC noise that plagues today's power lines. AC noise greatly inhibits the performance of audio and video reproduction, by smearing, distorting, and masking the low level detail that DEFINES high resolution sound and picture quality. By virtually eliminating these noises and distortions, premium systems are able to CONSISTENTLY deliver peak performance without compromise. Further, Furman's Power Factor Correction technology (previously only available in the IT-REFERENCE Series), assures current starved power amplifiers and receivers work at peak efficiency by providing them with a low impedance current reservoir for even the most extreme peak power demands.

Home Theater Power Management - Furman Applications

Example K - Home Theater Installation (\$4K +)

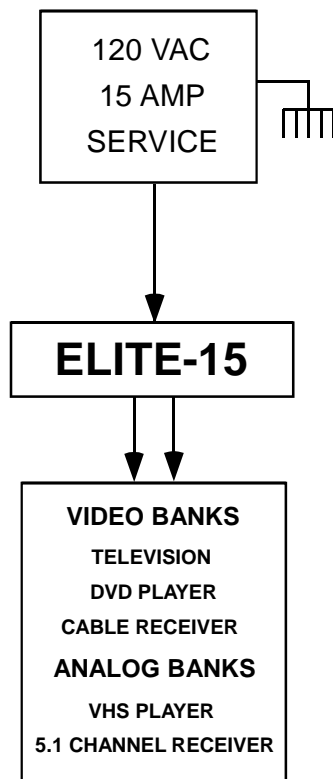


LINEAR FILTERING POWER CONDITIONING:

The Furman ELITE-15 and ELITE-15DM are linear filtering AC Power Conditioners. These units greatly reduce the AC noise that plagues today's power lines. AC noise greatly inhibits the performance of audio and video reproduction, by smearing, distorting, and masking the low level detail that DEFINES high resolution sound and picture quality. By virtually eliminating these noises and distortions, premium systems are able to CONSISTENTLY deliver peak performance without compromise.

Home Theater Power Management - Furman Applications

Example L - Home Theater Installation (\$3K +)

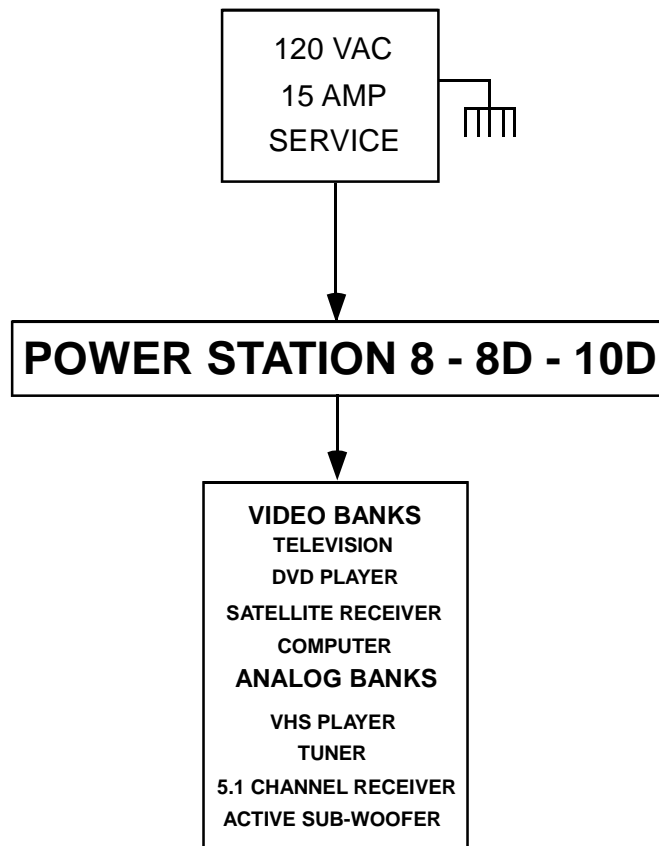


LINEAR FILTERING POWER CONDITIONING:

The Furman ELITE-15 and ELITE-15DM are linear filtering AC Power Conditioners. These units greatly reduce the AC noise that plagues today's power lines. AC noise greatly inhibits the performance of audio and video reproduction, by smearing, distorting, and masking the low level detail that DEFINES high resolution sound and picture quality. By virtually eliminating these noises and distortions, premium systems are able to CONSISTENTLY deliver peak performance without compromise.

Home Power Management - Furman Applications

Example M - Home Entertainment Installation (\$2K +)

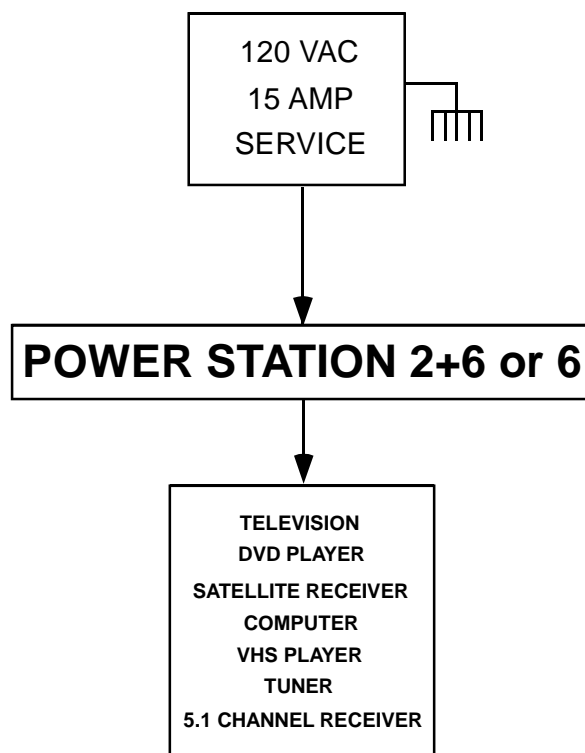


LINEAR FILTERING POWER CONDITIONING:

The Furman Power Station-8, Power Station-8D and Power Station-10D are linear filtering AC Power Conditioners. These units greatly reduce the AC noise that plagues today's power lines. AC noise greatly inhibits the performance of audio and video reproduction, by smearing, distorting, and masking the low level detail that DEFINES high resolution sound and picture quality. By virtually eliminating these noises and distortions, premium systems are able to CONSISTENTLY deliver peak performance without compromise.

Home Power Management - Furman Applications

Example N - Home Entertainment Installation (\$1K +)



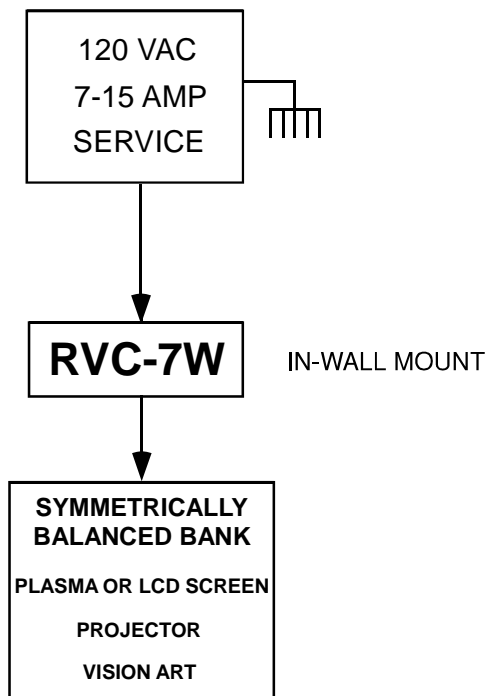
POWER CONDITIONING:

The Furman Power Station 2+6 and Power Station-6 are AC Power Conditioners. These units aid in reducing the AC noise that plagues today's power lines. Additionally, they offer Transient Voltage Surge Protection to protect both AC components as well as Cable and Telephone lines.

Home Theater Power Management - Furman Applications

Example O - Special Application - Remote - Video Conditioning

For Projectors or Flat Screen Televisions with a cost of (\$8K +)

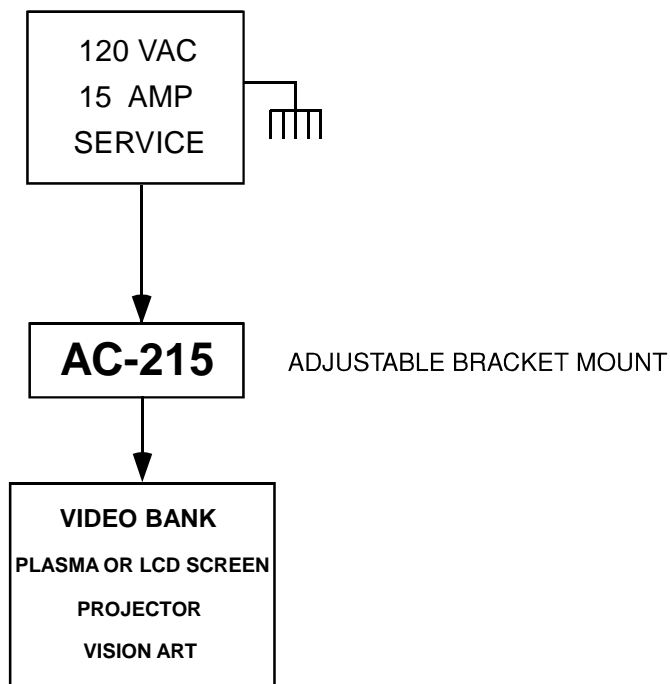


*For any application where a video projector or plasma screen is installed **without** the AC line “home run” or star ground to the systems primary power conditioner.*

The **RVC-7W's** Isolated Symmetrically Balanced Power effectively eliminates AC hum-bars and noise that could otherwise compromise video clarity, while its' maintenance-free surge protection assures no damaged components - no service calls and no down time.

Home Theater Power Management - Furman Applications

Example P - Special Application - Remote - Video Conditioning
For Projectors or Flat Screen Televisions with a cost of (\$2K +)



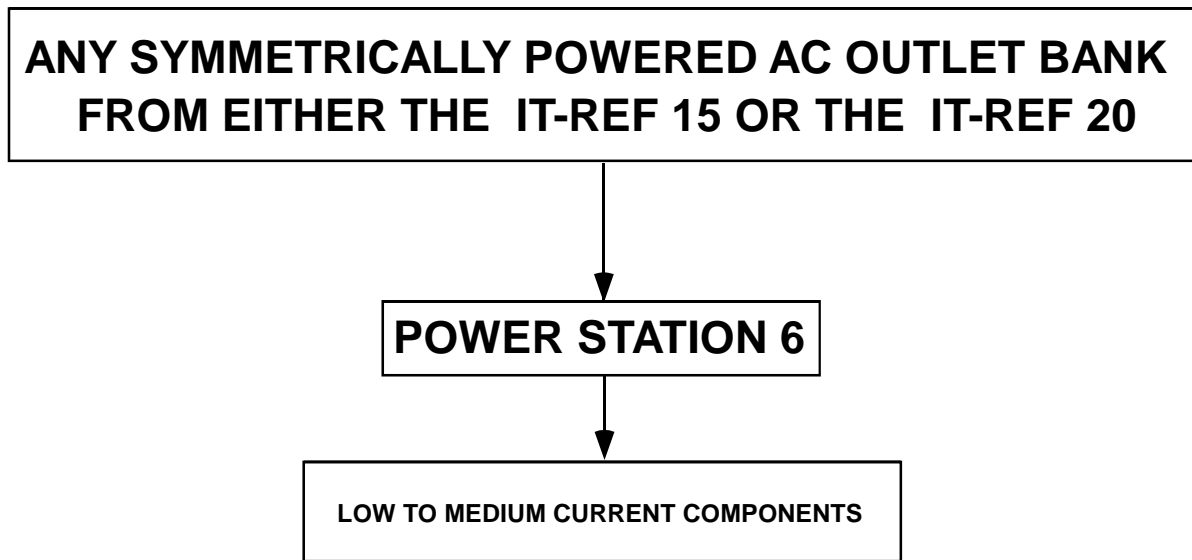
*For any application where a video projector or plasma screen is installed **without** the AC line “home run” to the systems primary power conditioner, **and AC hum-bars are not a concern** (such as optical signal cabling).*

The **AC-215**'s Linear Filtering Technology effectively reduces AC noise that could otherwise compromise video clarity, while its' maintenance-free surge protection assures no damaged components - no service calls and no down time.

Home Theater Power Management - Furman Applications

Example Q - Special Application - Home Theater Installation (\$15K +)

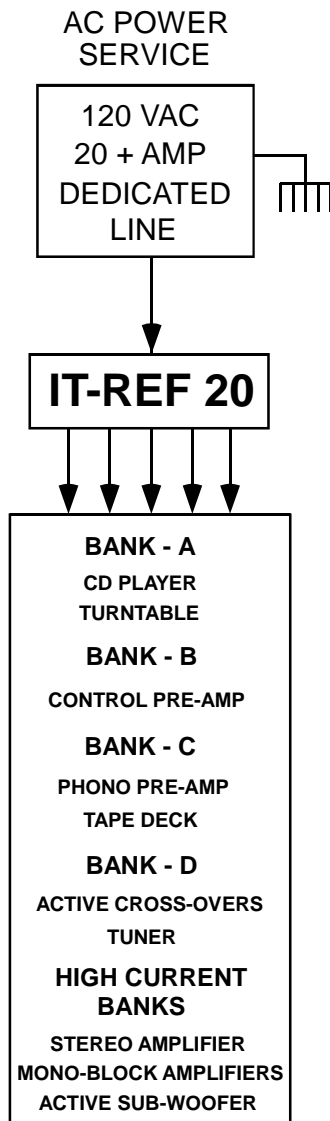
*For applications where extra outlets are required from any discrete Symmetrically Balanced AC outlet. It is important in this instance to **only use the Power Station - 6**, as it has no series filtering that would diminish the effectivity of the Balanced Power circuitry.*



Home Power Management - Furman Applications

Example R - 2-Channel Audio System - Audiophile (\$25K +)

The IT-Reference 20 will function well even when connected to a 15 amp AC outlet. However, for best performance, and to take advantage of full current capacity, it is recommended that the unit be supplied with at least a 20 amp service (preferable dedicated).



ISOLATED SYMMETRICALLY BALANCED POWER CONDITIONING:

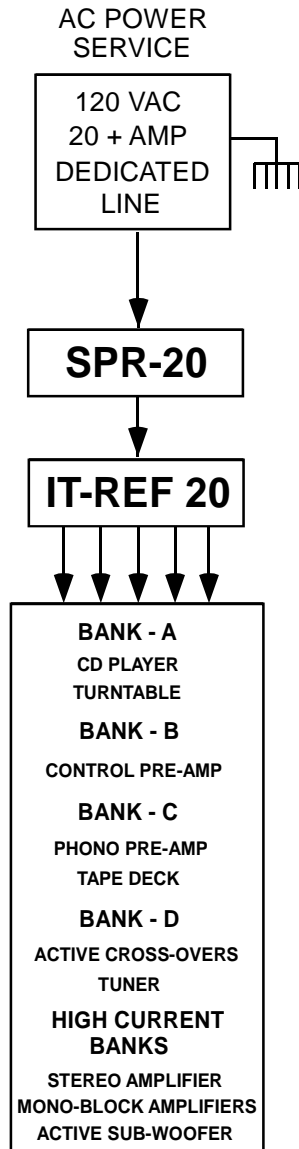
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Home Power Management - Furman Applications

Example S - 2-Channel Audio System - Audiophile (\$40K +)

For applications with AC source voltage below 116VAC, or above 124VAC.

The IT-Reference 20 and SPR-20 will function well even when connected to a 15 amp AC outlet. However, for best performance, and to take advantage of full current capacity, it is recommended that these units are supplied with at least a 20 amp service (preferable dedicated).



AC POWER REGULATION:

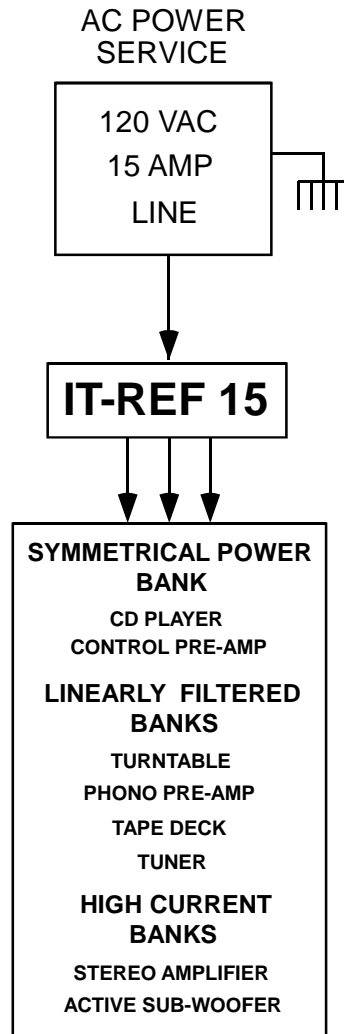
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ISOLATED SYMMETRICALLY BALANCED POWER CONDITIONING:

The Furman IT-REFERENCE-15 and IT-REFERENCE-20 are AC Power Conditioners. These units greatly reduce the AC noise that plagues today's power lines. AC noise greatly inhibits the performance of audio and video reproduction, by smearing, distorting, and masking the low level detail that DEFINES high resolution sound and picture quality. By virtually eliminating these noises and distortions, premium systems are able to CONSISTENTLY deliver peak performance without compromise. Further, Furman's Isolated Symmetrically Balanced technology aids in preventing the audio buzz, and video hum bars that can inhabit complex theater installations.

Home Power Management - Furman Applications

Example T - 2-Channel Audio System - Audiophile (\$15K +)



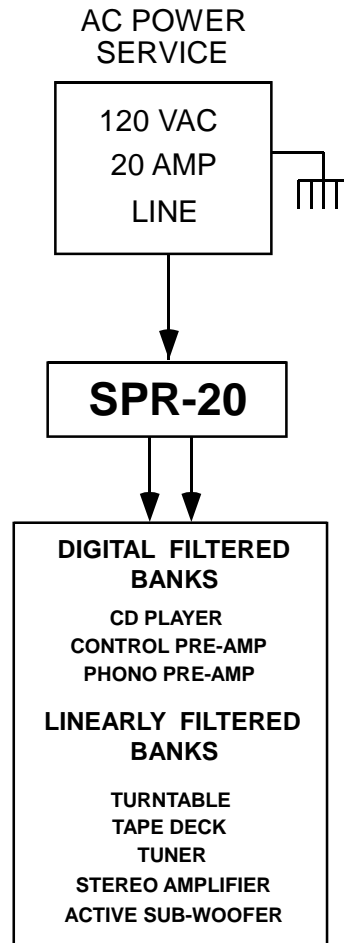
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Home Power Management - Furman Applications

Example U - 2-Channel Audio System - Audiophile (\$15K +)

For applications with AC source voltage below 116VAC, or above 124VAC.

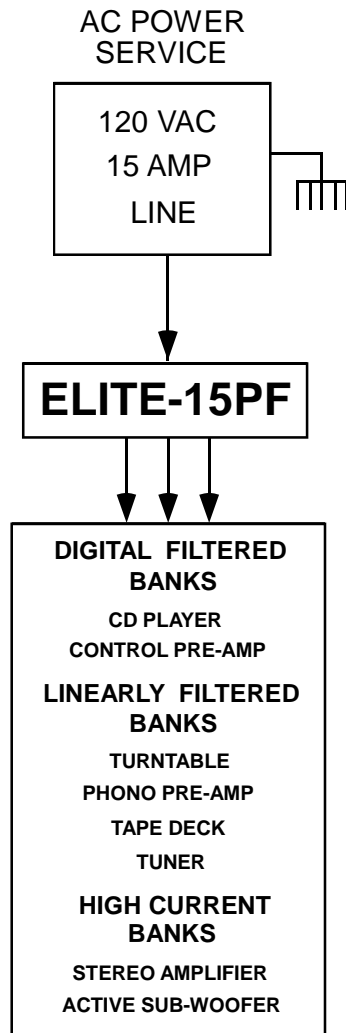


AC POWER REGULATION:

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Home Power Management - Furman Applications

Example V - 2-Channel Audio System - Audiophile (\$4K +)



LINEAR FILTERING POWER CONDITIONING WITH POWER FACTOR CORRECTION:

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