

# FURMAN®

## 120V CONSUMER ELECTRONICS LINE CATALOG



**ADVANCED AC POWER MANAGEMENT SOLUTIONS**  
FOR TODAY'S HOME THEATER, AUDIOPHILE & VIDEOPHILE APPLICATIONS

## ACCOLADES FROM THE PRESS

*I was in no way prepared for the difference the Furman made and had to hook and re-hook the power cords many times before I believed what I was hearing was real.*

– Darryl Wilkinson, Home Theater Magazine

*With the Furman in my system the difference was profound... I wanted to listen to more music... watch more TV, more movies and more music DVD's.*

– Rick Schmidt,  
Secrets of Home Theater and High Fidelity

*Bass instantly tightened, the noise floor dropped, and a veil seemed lifted from my loudspeakers after removing the power plugs from my wall and inserting the Elite-15 PF i. The difference was immediately obvious in my system.*

– Danny Richelieu, Widescreen Review

*The IT-Reference 20i is built like a tank, and worked flawlessly... Owners of ambitious systems are well advised to invest in a high-quality power-management solution such as the IT-Reference 20i.*

– John Marks, Stereophile



## ACCOLADES FROM TOP PROFESSIONAL INTEGRATORS

*I spent the night listening to my home system fully Furmanized and I have to say, in complete sincerity, I cannot remember the last performance upgrade I made in my system that moved the sound quality up-opened the door so much-as these "optional" components. Every single aspect of the sound through this system is dramatically superior to the same system without the Furman line conditioners.*

– Jonathan Spelt, Ultra Fidelis

*Furman products do everything that they say they will do. The stuff works and it works well!*

– Bob Cole, World Wide Stereo

*We carry Furman products because of their reliability. Furman has an outstanding reputation in the pro A/V industry for providing high-quality solutions at an attractive price point.*

– Mark Halsten, Halsten Entertainment

*Furman is a no-pressure, great-product company that any professional retailer or system integrator should be proud to be associated with. It's always a huge plus when a company that treats you well in all aspects of the business makes a product that takes a back seat to none of its competition.*

– David Wexler, The Little Guys

PURIFYING  
POWER  
FOR OVER

40 YEARS

FURMAN®

For over 40 years, Furman has been the leading manufacturer of AC power conditioners, AC voltage regulators, balanced isolation transformers, and AC distribution equipment for audio, video, and broadcast professionals.

Our products are relied upon by respected professional musicians, renowned recording and film studios, and major touring and performance companies throughout North America and across the world. They choose Furman for our reputation for reliability and our years of engineering expertise focusing on the specific needs of industry professionals that cannot afford equipment failure or downtime.

Introduced in 2001, Furman's acclaimed line of consumer power management products build upon the virtually maintenance free, performance enhancing

technology found in our professional line. With components that have been re-engineered from the ground up, Furman's consumer electronics product line is designed to meet the specific challenges found in today's home theater and high-performance audio systems.

We at Furman are focused on the future and our commitment to stretch the bounds of technology to provide the most advanced power management solutions available for audio and video electronics.

### AWARD-WINNING DESIGN & TECHNOLOGY



Every day, the need for advanced power management solutions is becoming more and more apparent. Today's A/V technologies are more sophisticated than ever, but the AC grid that powers our equipment is increasingly overtaxed, antiquated, and dilapidated. AC problems that went unnoticed fifty or sixty years ago, when our power system was put in place, can now cause performance issues, reduced reliability, and damage to sensitive components.

Furman's solutions are engineered to address today's real-world needs. Below are some of the advanced exclusive technologies you will only find in Furman products:

### SERIES MULTI-STAGE PROTECTION (SMP)

Typical surge suppressors rely exclusively on sacrificial components to protect your equipment from voltage surges and spikes. They are designed to "take the bullet" when exposed to a catastrophic voltage irregularity, hopefully saving your equipment, but sacrificing

internal components in the process. In a best-case scenario, this leaves your equipment unprotected until the surge suppression device can be repaired or replaced. In the worst case, the device can't absorb the entire surge before failing, letting voltage pass into your system and damage your equipment. Furman's technology is different.

absorber, the SMP circuit protects itself, as well as your connected equipment.

Furman's SMP circuit has been tested to withstand multiple 6000V or 3000A pulses without sustaining any damage, far beyond the demands placed on typical surge suppressors\*.

\* Tests performed at World Products Laboratory with a Keytec #587 generator, measured with an Agilent Infiniium oscilloscope and associated current and voltage probes. Applied signal = 120VAC with a 6kV/3kA B3 pulse applied at the peak of the sine wave. Complete circuit suppressed voltage = 183V to 188V peak (equivalent to 133VAC).

*The SMP circuit protects itself, as well as your connected equipment.*

The key to our SMP suppression system is that the severity of the offending voltage spike is critically damped so that the overall energy level is reduced to a fraction of what the clamping device can handle. So, like a well-tuned shock



### EXTREME VOLTAGE SHUTDOWN (EVS)

Extreme voltage conditions (such as sustained over-voltage conditions) are some of the most threatening power problems faced by your equipment. A power pole that was damaged in a storm or accident, or a lost or intermittent neutral wire in a multiple zone system, can result in a sudden connection in excess of 208 volts AC. Most extreme voltage conditions will result in destroyed equipment or, at best, a destroyed surge suppression system.

In either event, equipment service is certainly required.

Furman's EVS protects against these scenarios by employing a circuit that constantly monitors the incoming AC. When voltage is detected at 15% above nominal, a power relay opens, cutting off the AC supply to all connected equipment and critical circuits. Once the voltage is corrected, the unit is reset and normal operation may continue.

*Without proper protection, the end result is destroyed equipment, or at best, a destroyed surge suppression system.*



## POWER FACTOR TECHNOLOGY

Furman's Power Factor Technology was designed to help power amplifiers sound their best and reproduce audio signals accurately. While a typical 15 amp tap is enough to supply the modest RMS current draw needed by most power amplifiers, the extremes and dynamics of an audio presentation may require the power amplifier to draw in excess of 30 amps for a brief moment. The punch of a bass guitar,

the forceful hammering of a dense piano chord, or the ringing crash of a drummer's cymbal are all audio transients that can require a power amplifier to provide more current than is available to reproduce the signal. When this occurs, the transients can be blurred, compressed, and squashed, resulting in the audio presentation losing the drama and excitement that was intended by the artist who recorded the program.

With Furman's Power Factor Technology, power amplifiers are supplied a momentary current reservoir which lowers the AC line impedance while providing up to 80 amps of peak current from which to draw. Simply put, Power Factor Technology allows power amplifiers to get the current they need when they need it most.

## LINEAR FILTERING TECHNOLOGY (LiFT)

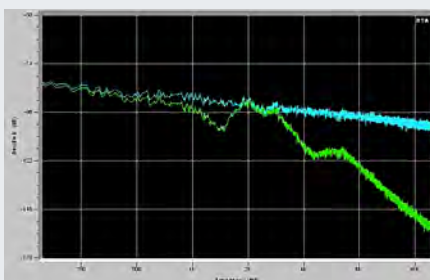
While delivering power your AC tap also delivers a significant amount of line noise. This is due to many reasons: the widening popularity of switching power supplies and the harmonics they backfeed into our AC power mains, the deterioration of our power grid from age and use, and the noise pollution generated from the massive amounts of electronic devices on our grid at any given time, among others. When this AC noise couples into critical circuits, it will distort and mask low-level signal information. This

information is vital to today's high-performance, high-definition video and audio.

Furman's LiFT employs a finely tuned low-pass filter to reduce the differential AC noise coming through your line. What is significant about Furman's filtering is that it reduces the AC noise in a linear fashion across a very wide bandwidth. Prior filtering schemes (such as those found in most AC conditioners and in Furman's own conditioners prior to developing LiFT) reduce noise unevenly, creating a noise attenuation

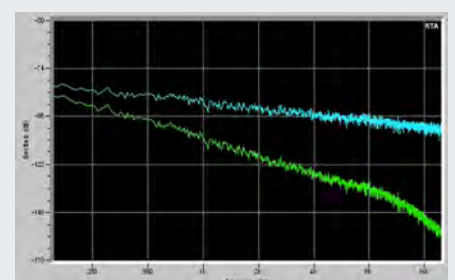
curve that resembles a roller coaster. This is akin to a poor job of equalizing a recording.

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.



*LEFT: Output of real-time noise analysis software, showing the noise attenuation curve of a standard AC noise filter. Note the uneven shape of the curve (the green line).*

*RIGHT: Output of the same analysis using Furman's Linear Filtering Technology. As you can see, the noise attenuation curve is smooth and linear, without the resonant peaking seen in the standard filter.*





## STABLE POWER REGULATION

With today's chaotic demands on many municipal power facilities, AC voltage is often reduced so that it can be stretched to fulfill excess demand. This creates a substantial negative impact on your system's performance. Power amplifiers and powered subwoofers cannot perform to their full potential. Even a relatively modest reduction in AC voltage can obliterate the sonic impact of an otherwise superior system. Low voltage can also burn out a component's power supply, as the internal power supply must work harder to make up for the lack of incoming voltage. Just

as problematic are excessively high line voltages. Excess voltage can over-heat sensitive circuits, lower the life and reliability of projector lamps, and cause many circuits to shut down.

With Furman's exclusive Stable Power Regulation Technology, incoming voltages that are either too low or dangerously high are converted to a stable, steady 120V AC (typically  $\pm 1V$ ). This allows a voltage-starved system to perform at its full potential. Electronic components are supplied with constant, unwavering AC voltage, assuring trouble-free service for any environment suffering from unstable power. Furthermore, Furman's Stable Voltage Regulation generates virtually no heat, and produces none of the mechanical noise typical in inferior AC voltage regulators. Our zero-crossing solid state technology provides virtually unlimited peak current delivery, avoiding the current limiting found in AC regulators that convert AC power into DC and then synthesize an AC output signal.

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*Electronic components are supplied with constant, unwavering AC voltage, assuring trouble-free service for any environment*

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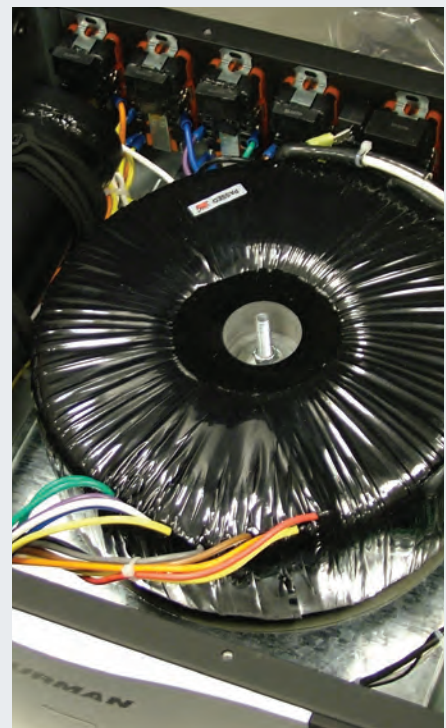
## DISCRETE SYMMETRICALLY BALANCED POWER

While differential AC noise (such as electromagnetic and radio frequency interference) can be effectively reduced with a low-pass filter such as Furman's LiFT, common mode AC noise - the cause of ground loops and video hum bars - requires more advanced solutions. Effective reduction of common mode noise without rewiring the electrical service requires the use of an isolation transformer. The most effective of these are true symmetrically balanced isolation transformers.

Furman's Discrete Symmetrically Balanced Power is achieved by running the incoming AC into a 1:1 isolation transformer with a precisely placed center tap on the transformer's secondary. The incoming voltage (120V on the line terminal and 0V on the neutral and ground) is split into perfect halves on the transformer's output. The AC line

now has 60V on the line and 60V on the neutral when referenced to the new center-tapped ground, which remains at 0V AC. What is significant about this is that the two 60V AC terminals are now in opposite polarity. This completely cancels all common mode noise from the incoming AC line. This noise reduction is extraordinarily efficient and linear across a huge frequency range, and the result is perfectly clean power devoid of ground loops and AC hum noise.

Furman's isolation transformers utilize Dual Screen Technology, which yields the widest bandwidth of noise reduction available. This allows Furman's Discrete Symmetrically Balanced Power units to uncover unprecedented levels of video and audio detail while ensuring that flat panel displays or video projectors are free of AC ground contamination from an audio processor or power amplifier.



**IT-REFERENCE 20i** . . . . .Page 8  
Discrete Symmetrically Balanced Power Conditioner, 20A

**IT-REFERENCE 15i** . . . . .Page 9  
Discrete Symmetrically Balanced Power Conditioner, 15A

**SPR-20i** . . . . .Page 10  
Stable Power Voltage Regulator, 20A



**IT-REFERENCE 20i**

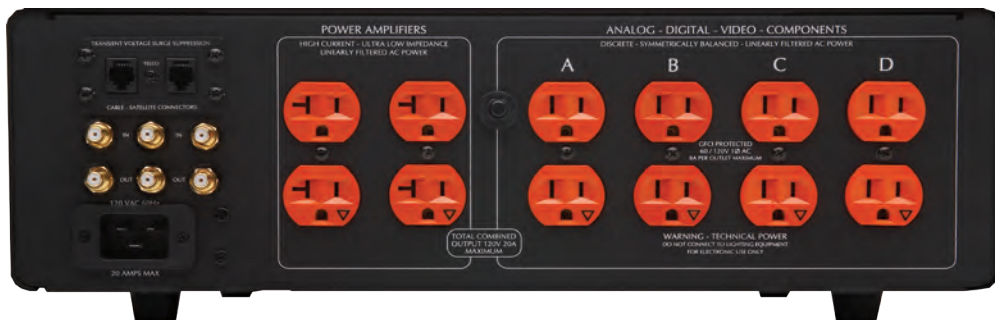
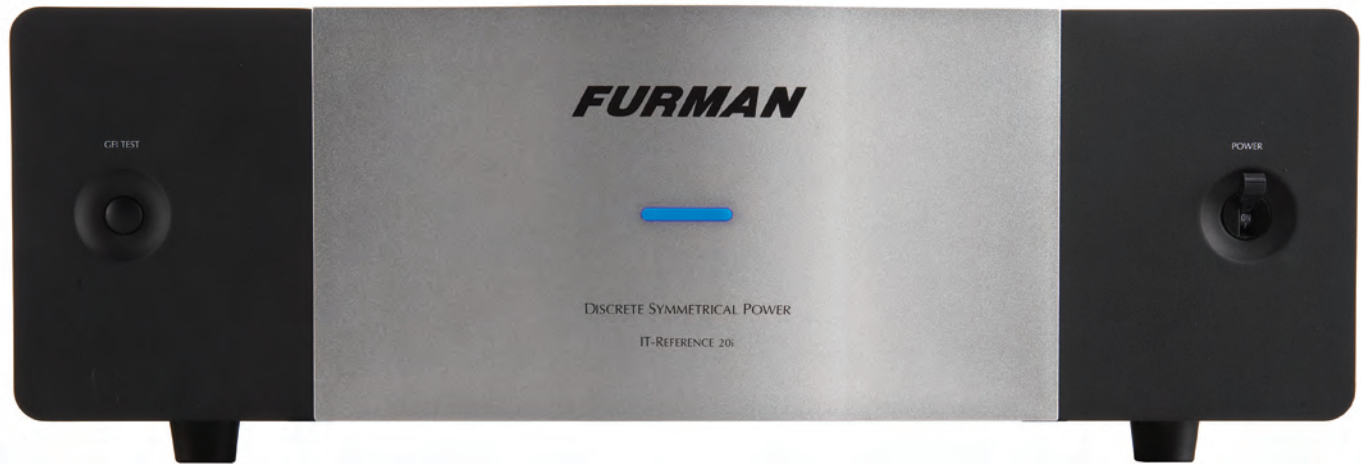
**FEATURES**

- Discrete Symmetrically Balanced Power with Dual Screen Technology cancels hum-inducing noise from audio and video
- Five discrete power banks eliminate inter-component interference and noise
- Power Factor Technology provides surplus current (80A peak) for power-starved amplifiers
- Linear Filtering Technology for unequaled audio / video clarity
- Virtually maintenance-free AC surge suppression
- 3 pairs of HD-ready cable / satellite TVSS isolated coaxial connectors and detachable module for telco surge suppression
- 12 outlets, 20A capacity

**DESCRIPTION**

Designed for the most ambitious high-current audiophile, videophile and home theater systems, the Furman IT-Reference 20i's Discrete Symmetrical Power features total isolation between its four filtered high-current outlets and each of its isolated symmetrical power AC outlet banks. This positively breaks noise inducing ground loops, hum bars, and power supply backwash between critical interconnected equipment, all without compromising electrical safety. Furman's newly refined isolation transformer featuring Dual-Screen Technology yields the widest bandwidth of noise-reduction available, enabling the IT-Reference

20i to uncover unprecedented levels of video and audio detail. The IT-Reference 20i also features Furman's Power Factor Technology to ensure optimum performance for current-starved power amplifiers and powered subwoofers, while Furman's Linear Filtering Technology provides a finely tuned low-pass filter to remove differential noise from the incoming AC line. Whether defeating problem ground loops or simply providing pure power to allow high-quality connected equipment to perform its best, the Furman IT-Reference 20i ensures system performance without compromise.



## IT-REFERENCE 15i

### FEATURES

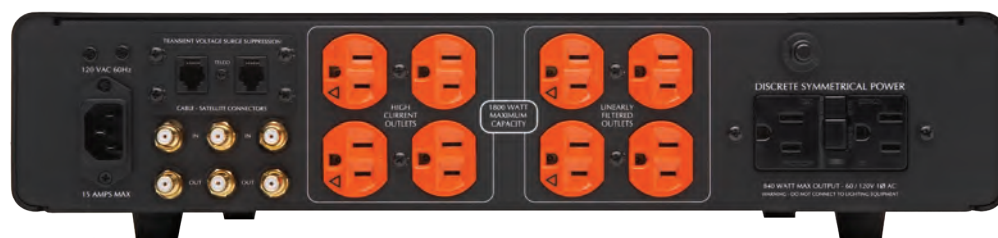
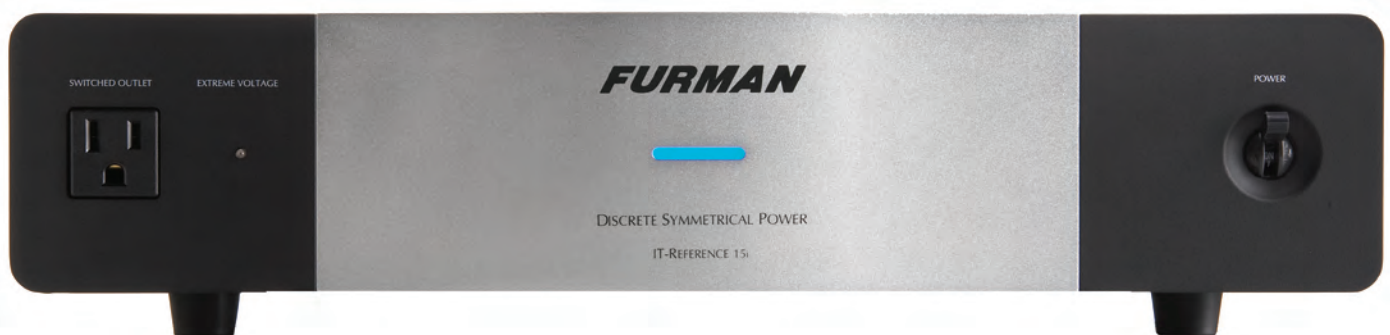
- Discrete Symmetrically Balanced Power with Dual Screen Technology cancels hum-inducing noise from audio and video
- Power Factor Technology provides surplus current (55A peak) for power-starved amplifiers
- Linear Filtering Technology (LiFT) for unequaled audio / video clarity
- Series Multi-Stage Protection (SMP) provides maximum AC surge suppression
- Extreme Voltage Shutdown (EVS) guards against prolonged over/under voltage conditions
- 3 pairs of HD-ready cable / satellite TVSS isolated coaxial connectors and detachable module for telco surge suppression
- 11 outlets, 15A capacity

### DESCRIPTION

For premium home theater systems where flawless performance is essential, the IT-Reference 15i delivers Discrete Symmetrically Balanced Power to connected equipment, effectively canceling all common mode line noise - the cause of ground loops and video hum bars. Additional noise reduction is provided by Furman's Linear Filtering Technology, which provides a low-pass filter engineered to reduce differential line noise in a linear fashion across a very wide bandwidth. The IT-Reference 15i also features Power Factor Technology, which provides power amplifiers and powered subwoofers with an extremely efficient, low-impedance supply of AC power to enable maximum performance.

Additionally, Furman's virtually maintenance free, non-sacrificial SMP surge protection and EVS over/under voltage protection provide peace of mind by offering the most advanced protection available.

**Note:** The IT-Reference 15i is rated with a 15A current capacity. If higher capacity is required, Furman recommends the IT-Reference 20i.



**SPR-20i**

**FEATURES**

- Provides an ultra-stable 120 VAC supply from low or high voltage sources
- Linear Filtering Technology (LiFT) for unequaled audio / video clarity
- Series Multi-Stage Protection provides maximum AC surge suppression
- Extreme Voltage Shutdown (EVS) guards against prolonged over/under voltage conditions
- Cool-running, noise free regulation technology allows placement in critical listening environments
- 3 pairs of HD-ready cable / satellite TVSS isolated coaxial connectors and detachable module for telco surge suppression
- 12 outlets, 20A RMS capacity

**DESCRIPTION**

With the SPR-20i's exclusive Stable Power AC Voltage Regulation Technology, home theaters are supplied with constant, virtually unwavering AC voltage. This assures trouble-free service for any environment suffering from unstable power.

The SPR-20i's solid state multi-tap autoformer provides AC regulation for a continuous output of 120VAC (+/- 1.0V typically) with an input voltage range of 113VAC to 126VAC (the SPR-20i will regulate well beyond 113VAC to 126, but not within 1.0VAC). This unit generates virtually no heat and produces none of the mechanical noise typical in inferior AC voltage regulators, making it ideal for use in critical listening environments. Further, Furman's zero-crossing solid state technology provides virtually unlimited

peak current delivery, avoiding the current limiting found in AC regulators that convert AC power into DC and then synthesize an AC output signal.

The SPR-20i also features Linear Filtering Technology for unsurpassed differential AC noise reduction, Series Multi-Stage Protection to provide virtually maintenance-free suppression from transient voltage surges and spikes, and Extreme Voltage Shutdown to guard against prolonged over/under voltage conditions.

The SPR-20i may be used in combination with a Furman IT-Reference 20i Discrete Symmetrical Power Conditioner for a comprehensive, premium AC power management solution.



**ELITE-20 PFi** . . . . . Page 12  
Ultra-Linear Filtering Power Conditioner with Power Factor Technology, 20A

**ELITE-15 PFi** . . . . . Page 13  
Linear Filtering Power Conditioner Power Factor Technology, 15A

**ELITE-15 DMi** . . . . . Page 14  
Linear Filtering Power Conditioner, 15A

**ELITE-15i** . . . . . Page 15  
Linear Filtering Power Conditioner, 15A



**ELITE-20 PFi**

**FEATURES**

- Power Factor Technology provides surplus current (55A peak) for power-starved amplifiers
- Ultra-Linear Filtering Technology for unequaled audio and video clarity
- Series Multi-Stage Protection (SMP) featuring Auto-Reset Extreme Voltage Shutdown (EVS)
- Zero ground contamination circuitry protects critical digital components
- Ultrasonic filtering isolates digital and video circuits from analog components
- Retractable LED lamps illuminate a cabinet or rack full of equipment
- 3 pairs of HD-ready cable / satellite TVSS isolated coaxial connectors and detachable module for telco surge suppression
- 12 Volt triggering for remote control
- 13 outlets, 20A capacity

**DESCRIPTION**

The Furman Elite-20 PFi is engineered to provide today's home theater systems with clean, ultra-low noise AC power to assure maximum performance. The Elite 20 PF i's Ultra-Linear Filtering reduces noise across an even greater bandwidth than Furman's Linear Filtering Technology - in fact, the Elite-20 PF i is so substantial in its ability to unmask critical signal content, its performance is surpassed only by the Furman Reference Series.

The essence of the Elite-20 PFi is Furman's unique Power Factor Technology. The Elite-20 PFi has a current reserve of over 55 amps peak charge (4.5 amps RMS) for the most extreme peak power demands. This technology enables power amplifiers and powered subwoofers to operate at maximum efficiency, reaching

levels of performance previously unattainable. Furthermore, the Elite 20-PF i's 20A capacity provides sufficient current for large power amplifiers and other current-hungry components.

The Elite-20 PFi also features remote control capability via 12V triggering, compatible with the 12V triggering devices commonly found in power receivers and pre-amp processors. Additional products (such as a remote subwoofer) can be daisy-chained from the 12V output jack for an additional triggered unit. The 12V triggering feature may be bypassed if desired. Convenient pull-out lights discreetly illuminate a rack full of equipment.



## ELITE-15 PFi

### FEATURES

- Power Factor Technology provides surplus current (45A peak) for power-starved amplifiers
- Wide bandwidth Linear Filtering Technology (LiFT) for stunning audio / video clarity
- Series Multi-Stage Protection (SMP) featuring Auto-Reset Extreme Voltage Shutdown (EVS)
- Zero ground contamination circuitry protects critical digital components
- Retractable LED lamps illuminate a cabinet or rack full of equipment
- 3 pairs of HD-ready cable / satellite TVSS isolated coaxial connectors and detachable module for telco surge suppression
- 12 volt triggering for remote control
- 13 outlets, 15A capacity

### DESCRIPTION

The Furman Elite-15 PF i is the ideal power conditioner for moderate home theater systems utilizing power amplifiers or powered subwoofers that draw no more than 15 amps. The Elite-15 PF i has a current reserve of over 45 amps peak charge (3 amps RMS) for the most extreme peak power demands. This technology enables power amplifiers and powered subwoofers to operate at maximum efficiency, reaching levels of performance previously unattainable. The Elite-15 PF i also offers Linear Filtering Technology for stunning audio/video clarity as well as SMP non-sacrificial surge suppression for virtually maintenance-free protection of your valuable electronics.

The Elite-15 PF i's 12V triggering provides remote control capability compatible with the 12V triggering devices commonly found in power receivers and pre-amp processors. Additional products (such as a remote subwoofer) can be daisy-chained from the 12V output jack for an additional triggered unit. The 12V triggering feature may be bypassed if desired.

Furman's signature pull-out rack lights are also provided. Perfect for home theater environments, these high-intensity LED lights provide discreet illumination of your equipment, and the lights may be dimmed or turned off completely when not in use.





## ELITE-15i

### FEATURES

- Linear Filtering Technology (LiFT) for stunning audio / video clarity
- Series Multi-Stage Protection (SMP) featuring Auto-Reset Extreme Voltage Shutdown (EVS)
- Retractable LED lamps illuminate a cabinet or rack full of equipment
- Zero ground contamination circuitry protects critical digital components
- Laboratory precision grade voltmeter
- 3 pairs of HD-ready cable / satellite TVSS isolated coaxial connectors and detachable module for telco surge suppression
- 12 volt triggering for remote control
- 7 outlets, 15A capacity

### DESCRIPTION

The Furman Elite-15i packs Linear Filtering Technology, robust SMP protection, front panel pull-out rack lights, 12V triggering, and a digital front panel voltmeter, all in a convenient, slim package.

Furman's exclusive Linear Filtering Technology unveils the low-level signals masked by AC line noise. 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. The Elite-15i's Linear Filtering Technology dramatically reduces AC noise in a linear fashion across a very wide bandwidth.

The Elite-15i also features SMP surge protection, assuring the highest level of protection available. Furman's SMP has been tested with multiple 3000A/6000V pulses without sustaining any damage - well beyond the capabilities of a typical surge suppressor.

The front panel of the Elite-15i offers two retractable LED lamps for rack or cabinet illumination. These lamps are ideal for use in a home theater environment, allowing discreet illumination of equipment when theater lights are off. The lights feature a dimmer knob and automatically switch off when pushed into the chassis. Also featured on the front panel is a laboratory-precision grade voltmeter which displays incoming line voltage.

As with all Elite models, remote control capability is offered via 12V triggering, compatible with the 12V triggering devices commonly found in power receivers and pre-amp processors. Additional products (such as a remote subwoofer) can be daisy-chained from the 12V output jack for an additional triggered unit. The 12V triggering feature may be bypassed if desired.



## AC-215A

### FEATURES

- Series Multi-Stage Protection provides the highest level of protection available
- Linear Filtering Technology significantly reduces AC line noise
- Auto-Reset Extreme Voltage Shutdown protects equipment from dangerous voltage conditions
- Zero ground contamination circuitry assures delivery of pure AC
- Compact chassis design allows for discreet, unobtrusive placement
- Mounting brackets included for easy installation
- 2 outlets, 10A capacity

### DESCRIPTION

At only 1.75"H x 5"W x 8.5"D, and weighing in at only 3 lbs., the AC-215A's compact, low-profile design makes it ideal for mounting to the back of a flat-screen television, to the top of a video projector, or anywhere that discreetly located, remote power protection and purification are needed. Included mounting brackets make installation simple and easy.

The Furman AC-215A offers two outlets providing Linear Filtering Technology, Series Multi-Stage Protection, and Extreme Voltage Shutdown featuring automatic reset functionality - the essential features of the larger Elite Series products.

When employing the AC-215A, connected equipment will reap the benefits of the most advanced surge and spike protection available, thanks to Furman's SMP and EVS circuitry. Additionally, Furman's Linear Filtering Technology smoothly reduces AC line noise to maximize performance of audio and video components.

The AC-215A is the perfect accessory for home theater installations that require advanced power conditioning in a discreet or remote location away from the main equipment rack.



**PST 8D / PST 8 / PST 6 / PST 2+6 POWER STATIONS**



**PST 8D**

FEATURES

- Linear Filtering Technology dramatically reduces AC line noise and contamination resulting in improved audio/video clarity
- Series Multi-Stage Protection for the highest level of AC surge suppression
- Extreme Voltage Shutdown guards your valuable equipment from dangerous wiring faults
- Zero ground contamination circuitry assures the delivery of pure AC power
- One pair of cable/satellite and one pair of telco connectors deliver advanced protection to connected equipment
- Isolated outlet banks prevent interference between digital and analog components
- 8 outlets



**PST 8**

FEATURES

- Linear Filtering Technology dramatically reduces AC line noise and contamination resulting in improved audio/video clarity
- Series Multi-Stage Protection for the highest level of AC surge suppression
- Extreme Voltage Shutdown guards your valuable equipment from dangerous wiring faults
- Zero ground contamination circuitry assures the delivery of pure AC
- One pair of cable/satellite and telco connectors delivers advanced protection to connected equipment
- 8 outlets



**PST 6**

FEATURES

- Advanced surge suppression with zero ground contamination offers superior protection over a standard power strip
- One pair of cable/satellite and telco connectors deliver advanced protection to connected equipment
- Compact design enables discreet placement
- 6 outlets



**PST 2+6**

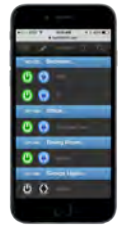
FEATURES

- Advanced surge suppression with zero ground contamination offers superior protection over a standard power strip
- One pair of cable/satellite and telco connectors deliver advanced protection to connected equipment
- Audible alarm indicates excessive power surge
- Compact design enables discreet placement
- 8 outlets

**F1500-UPS**

**FEATURES**

- 1500 VA Battery Backup maintains critical data and allows orderly shutdown during a power outage
- BlueBOLT® Technology (requires BlueBOLT-CV1 or BlueBOLT-CV2 interface card – sold separately) provides remote access to reboot components, power equipment on or off, and monitor power quality from anywhere in the world
- Series Multi-Stage Protection (SMP) provides virtually maintenance-free AC surge suppression
- Linear Filtering Technology (LIFT) for unequaled audio/video clarity
- Extreme Voltage Shutdown (EVS) protects your equipment from dangerous voltage conditions
- Dual Learning IR Blasters allow safe shut-down of remote components
- RS-232 Interface provides custom open source and control programming
- Easy to use CD-ROM software included
- USB interface
- Critical Load Management prioritizes allocation of temporary power to connected equipment
- AVR voltage regulation provides a consistent 120V (± 5-10%) output
- Optional Battery Extension Pack available for extended runtime capability
- Optional rack ears included
- 8 outlets



**DESCRIPTION**

Furman's F1500-UPS provides 1500VA true sine wave battery backup, BlueBOLT® Compatibility, SMP and EVS protection, Linear Filtration, and AVR standard level voltage regulation to provide ideal backup and protection to equipment that risks data loss or damage in the event of a power outage. The F1500-UPS' robust 1500VA battery backup provides true sine wave output

(ideal for A/V equipment) and will keep connected equipment powered on for up to 15 minutes at half load, 7 minutes at full load, allowing ample time to save data and shut down equipment properly. If extended runtime is needed, an external battery pack (BATT1500-EXT, sold separately) is available to increase battery capacity by up to 4x.



## F1000-UPS

### FEATURES

- 1000 VA Battery Backup maintains critical data and allows orderly shutdown during a power outage
- Series Multi-Stage Protection (SMP) provides virtually maintenance-free AC surge suppression
- Linear Filtering Technology (LiFT) for unequaled audio/video clarity
- Extreme Voltage Shutdown (EVS) protects your equipment from dangerous voltage conditions
- Dual Learning IR Blasters allow safe shut-down of remote components
- Easy to use CD-ROM software included
- RS-232 Interface provides custom open source and control programming
- USB interface
- Critical Load Management prioritizes allocation of temporary power to connected equipment
- AVR voltage regulation provides a consistent 120V ( $\pm$  5-10%) output
- Optional rack ears included
- 8 outlets

### DESCRIPTION

The Furman F1000-UPS is a 1000VA (simulated sine wave) Uninterruptible Power Supply specifically engineered for the needs of today's A/V equipment. With the large increase of components with critical data (such as media servers, control/automation systems, DVRs, and gaming consoles), as well as equipment that requires proper shutdown to avoid damage (such as DLP projectors and televisions), a UPS system has become an

essential component of many theater systems. The F1000-UPS maintains temporary power to connected equipment to ride out short black-outs or brown-outs, preventing lengthy restart sequences and avoiding data loss. It also allows safe shut down for extended black-outs, allowing equipment to turn off properly and providing an opportunity to save any critical data prior to shutting down the system.



# BlueBOLT®

## BlueBOLT-CV2

### Online Remote Power Management

(For use with the F1500-UPS)

Provides secure, local and hosted IP system control and monitoring as well as additional BlueBOLT® compatible products from Furman and Panamax

#### FEATURES

- Control for individual outlet banks featuring power, trigger and delay settings
- Auto rebooting for connected network devices
- Remote diagnostics: check unit status and incoming line voltages
- Easy, plug-in installation
- Email alerts for over and under-voltages help you anticipate or prevent service calls

**New Version!**

Now with Embedded Web Control



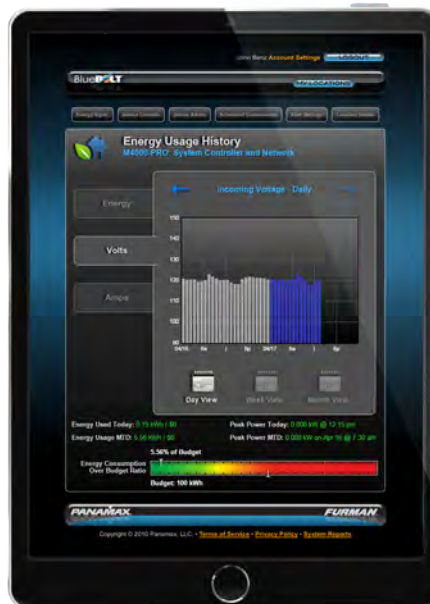
## SAVE TIME. SAVE MONEY. SAVE ENERGY.

BlueBOLT® Remote Power and Energy Management provides real-time, cloud based control and monitoring of the energy used by your electronic devices. Simply plug your electronics into a BlueBOLT-enabled power management component to open up a new world of command and visibility of your energy usage.

From easy reboots of locked-up electronics to comprehensive energy tracking and scheduled conservation, BlueBOLT provides a unique combination of control and monitoring directly at your electronics' power source.

## GO GREEN WITH SCHEDULED CONSERVATION

Standby power (sometimes called “vampire power”) – the power used by electronic devices when they are turned off – is often identified as one of the biggest wastes of electric power, adding up to more than \$3 billion of annual energy costs in the U.S. alone\*. With utility rates rising and more people trying to live greener lifestyles, how can we realistically reduce this waste? BlueBOLT's Scheduled Conservation allows you to automatically shut off all power to electronic devices during non-use hours - providing a real-world solution to reduce your energy bills and your impact on the environment.



\* Source: [http://www.economist.com/node/5571582?story\\_id=5571582](http://www.economist.com/node/5571582?story_id=5571582)

## THE POWER OF CONTROL - ANYWHERE IN THE WORLD

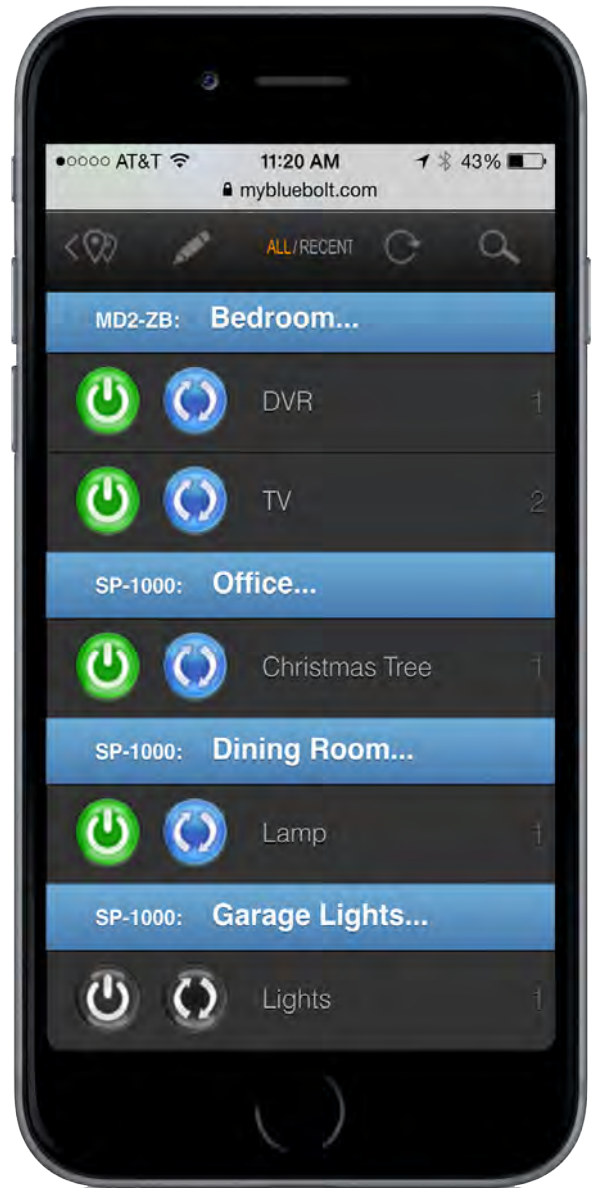
Today's home entertainment systems and electronic components are more sophisticated and connected than ever – and with this complexity comes a higher chance for electronic lockups, freezes, and crashes. All too often, the only fix for a locked-up component is to unplug it from the wall and plug it back in (also known as a “hard reboot”). Electronics plugged into a BlueBOLT-enabled component can easily be rebooted with the click of a button through BlueBOLT's easy to use, cloud-based user interface, from any web-enabled device, from anywhere in the world.

## TAME YOUR ROUTER

Remote management systems are only as good as their network. Have you ever needed to reboot your router or modem when you've lost your Internet connection? With BlueBOLT, you can assign outlets to automatically reboot once an active Internet connection is lost completely automating the all-to-common procedure of re-establishing your Internet connection with a hard reboot.

## SETUP IN MINUTES

BlueBOLT's cloud-based communications provides an incredibly easy setup procedure - simply plug your BlueBOLT-enabled power management component into the wall, connect it to a standard Ethernet cable with an active Internet connection, and plug in your electronic components. BlueBOLT will automatically detect your device as active and you can immediately register it and begin monitoring and controlling it from your computer, tablet or smartphone: no static IP addresses or port forwarding needed. If desired, BlueBOLT-enabled power management components may also be accessed via standard Telnet communications or integrated into a home automation system via RS-232.

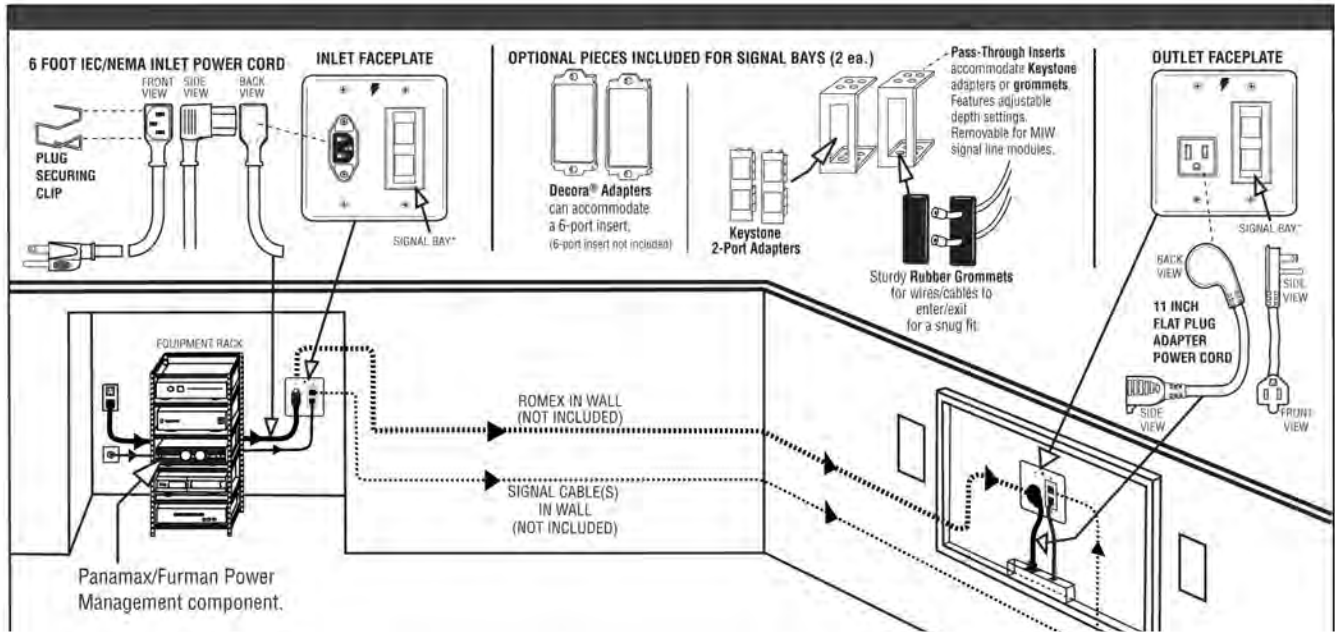


“Now more than ever, consumers are looking for ways to effectively manage their power consumption to lower utility bills and reduce their impact on the environment. With BlueBOLT, Panamax/Furman have developed a realistic way for consumers to do this with their electronics systems. This technology gives homeowners the data needed to make better choices in the use of home electronics and the ability to easily effect change with their power usage. For the installer, BlueBOLT's remote power control capabilities allow many service issues to be diagnosed, and often solve remotely without sending a technician. The energy management features provide a huge layer of value to every installation.”

- Bob Archer, CE Pro Senior Editor

For more information visit [www.mybluebolt.com](http://www.mybluebolt.com)

**MIW-XT**



**MIW-XT**

**KIT INCLUDES:** In-Wall Faceplates (INLET & OUTLET), 2 DECORA® Adapters, 2 Signal Bay Pass-Through Inserts for 2 Keystone 2-Port Adapters and 2 Rubber Grommets, 6 ft. IEC Power Cord & Securing Clip, 11 in. Flat Plug Adapter Power Cord, 6 wire nuts, 16 mounting screws, 2 mounting brackets, 1 Mounting Template

**FEATURES**

- Ultra-thin profile allows equipment to hang less than one inch from the wall
- EMI/RFI noise filtration built into outlet receptacle
- Power and signal lines are hidden in the wall behind panel displays for a clean, tidy and professional installation
- Extends Connected Equipment Policy to remote equipment when used with Panamax/Furman Power Management components
- Accommodates optional installation solutions by using: DECORA® Adapter, Pass-Through Insert, Keystone 2-port adapter, MIW Signal Line Modules (MIW modules sold separately)
- CSA Certified for code compliant installations
- 3 year product warranty



**DESCRIPTION**

MIW-XT extends safe, noise free power from Panamax / Furman Power Management components to remote panel displays, ceiling mounted video projectors and powered subwoofers. Discreetly hides behind electronic equipment for a neat, clean, code compliant and professional installation.

Installation requires use of an <b>outlet box or boxes that are NOT provided with the product.</b> Product has been tested thoroughly to be compatible with the following outlet boxes:		
	<b>NEW WORK</b>	<b>OLD WORK</b>
Plastic:	Carlson SC200DV	Carlson B114R
Metal:	Raco 8355	Raco 508 (hardware removed)

**MIW-POWER-PRO-PFP / MIW-SURGE-1G**



**MIW-POWER-PRO-PFP**

**KIT INCLUDES:** MIW-POWER-PRO-PFP, 3 wire nuts, 4 mounting screws

**FEATURES**

- Protects equipment against prolonged over voltages by disconnecting the power and reconnecting it when safe power returns
- Used in conjunction with MIW-DUAL SIGNAL BAY and signal line modules. (Sold Separately)
- 3 Year Product Warranty

**DESCRIPTION**

The MIW-Power-Pro-PFP provides safe power in a convenient, discreet, and easy to install in-wall package. Features Extreme Voltage Shutdown to protect your equipment from dangerous, prolonged over-voltage conditions. Can be combined with dual signal bays and signal modules (sold separately) to provide an aesthetically pleasing, code-compliant solution for running power and signal lines.



**MIW-SURGE-1G**

**KIT INCLUDES:** 3 wire nuts, 2 mounting screws (Pre-installed)

**FEATURES**

- DECORA® Faceplate Interface. This piece surrounds the receptacles and fits within a standard cover plates DECORA® cutout.
- Uses standard wiring device screw-hole.
- Both Outlets with Protect-or-Disconnect Circuitry.
- Bi-color Indicator LED. Green = Power On Red = Line Fault
- 3 Year Product Warranty

**DESCRIPTION**

Two AC receptacles provide power protection to remotely located devices. Fits most standard single gang plastic or metal boxes.

**VT-EXT / M-8X2 / D10 / PLUGLOCK-PFP / RL-LED**

**VT-EXT**  
EQUIPMENT RACK  
POWER DISTRIBUTION

An 8 outlet power strip designed specifically to be mounted to the vertical leg section of an equipment rack. The perfect way to extend the protection and filtration from an existing Panamax or Furman power conditioner.



**VERTEX**  
by **PANAMAX FURMAN**

**M-8X2**



The low-cost solution for your 15 amp AC power conditioning needs. The Furman M-8x<sup>2</sup> is a 19 inch rack mountable power conditioner featuring standard level surge suppression and RFI/EMI filtration, 8 rear panel outlets, one front panel outlet, and 15A circuit breaker.

**D10-PFP**



The PF Power D10-PFP is a 19" rack-mountable power distributor featuring 10 rear panel outlets. The D10-PFP contains no surge suppression or filtration circuitry, making it the perfect solution for adding extra AC outlets to an existing power conditioner.

**PLUGLOCK-PFP**



The PLUGLOCK-PFP circuit-breaker protected locking outlet strip provides enough wall wart spacing for five bulky transformers and can be safely mounted out of sight in the rear of your rack. Secure clamping design "locks" your transformers and conventional plugs in place.

**RL-LED**



The Furman RL-LED is a 19" rack-mounted plate featuring two adjustable, long-lasting LED gooseneck lamps. These lamps provide cool, efficient illumination of your equipment rack and may be dimmed or switched off when not in use.

REFERENCE “i” SERIES



		IT-Reference 20i	IT-Reference 15i	SPR-20i
Current Capacity	Input	20A	15A	20A
	Output	12-20A RMS	11-15A RMS	20A RMS
Outlets	Symmetrical + LiFT	8	2	-
	Power Factor + LiFT	4	4	-
	Regulated + LiFT	-	-	12
	LiFT	-	5	-
	Total Outlets	12	11	12
Linear Noise Attenuation	Differential Mode	>20dB (1kHz-2kHz) >40 dB (2kHz-100kHz) >80 dB (100kHz-1GHz)	>40 dB (4kHz-100kHz) >80 dB (100kHz-1GHz)	>40 dB (4kHz-100kHz) >80 dB (100kHz-1GHz)
	Common Mode	>95 dB (10Hz-50kHz) >40dB (50kHz-1MHz)	>90 dB (10Hz-50kHz) >40dB (50kHz-1MHz)	N/A
Non-Sacrificial Surge Suppression		Yes	Yes	Yes
Extreme Voltage Shutdown (EVS)		N/A	Yes	Yes
Ground Contamination Free Circuitry		Yes	Yes	Yes
Linear Filtering Technology (LiFT)		Yes	Yes	Yes
Discrete Symmetrical Balanced Power		Yes	Yes	No
Power Factor Technology		Yes (80A)	Yes (55A)	No
Stable Power Regulation		No	No	Yes, 120V Out
Dimensions w/ Feet (HxWxD)		5.75"x17"x15.6"	4"x17"x15.75"	4"x17"x15.6"
Rack Height (w/ Feet Removed)		3RU	2RU	2RU
Agency		cETLus	cETLus	cETLus
Weight		83 lbs.	50 lbs.	31 lbs.

**ELITE “i” SERIES**



		Elite-20 PFI	Elite-15 PFI	Elite-15 DMi	Elite-15i
Current Capacity	Input	20A	15A	15A	15A
	Output	16-20A RMS	11-15A RMS	15A RMS	15A RMS
Outlets	Power Factor + LiFT	4	4	-	-
	Ultra-LiFT	9	-	-	-
	LiFT	-	9	13	7
	Total Outlets	13	13	13	7
Linear Noise Attenuation	Differential Mode	>40 dB (5kHz-100kHz)	>40 dB (10kHz-100kHz)	>40 dB (10kHz-100kHz)	>40 dB (4kHz-100kHz)
		>80 dB (100kHz-1GHz)	>80 dB (100kHz-1GHz)	>80 dB (100kHz-1GHz)	>80 dB (100kHz-1GHz)
Non-Sacrificial Surge Suppression		Yes (SMP)	Yes (SMP)	Yes (SMP)	Yes (SMP)
Extreme Voltage Shutdown (EVS)		Yes (Auto Reset)	Yes (Auto Reset)	Yes (Auto Reset)	Yes (Auto Reset)
Ground Contamination Free Circuitry		Yes	Yes	Yes	Yes
Linear Filtering Technology (LiFT)		Yes (Ultra-LiFT)	Yes	Yes	Yes
Power Factor Technology		Yes (55A)	Yes (45A)	No	No
EVS Voltage Shutoff		80VAC (Under Voltage), 140VAC (Over Voltage)	80VAC (Under Voltage), 140VAC (Over Voltage)	80VAC (Under Voltage), 140VAC (Over Voltage)	80VAC (Under Voltage), 140VAC (Over Voltage)
Front Rack Lights		Yes	Yes	No	Yes
Digital Voltmeter		No	No	Yes (Volt & Current)	Yes
12V Triggering		Yes	Yes	Yes	Yes
12V Trigger Delay		Yes	Yes	No	No
Telco Protectors		2	2	2	2
Cable/Satellite Protectors		3 pairs	3 pairs	3 pairs	3 pairs
Universal Coax Protection	Shielded	Yes	Yes	Yes	Yes
	Insertion Loss	<0.5 dB	<0.5 dB	<0.5 dB	<0.5 dB
	HD 1080 i/p Ready	Yes	Yes	Yes	Yes
	Frequency Range	0 MHz - 2.2 GHz	0 MHz - 2.2 GHz	0 MHz - 2.2 GHz	0 MHz - 2.2 GHz
AC Cord (Captive/Removable)		Removable	Removable	Captive	Captive
Dimensions w/ Feet (HxWxD)		4"x17"x14.75"	4"x17"x14.75"	4"x17"x15.5"	2.15"x17"x14.75"
Rack Height (w/ Feet Removed)		2RU	2RU	2RU	1RU
Agency		cETLus	cETLus	cETLus	cETLus
Weight		18 lbs.	15 lbs.	14 lbs.	11 lbs.

AC-215A / PST 8D / PST 8



		AC-215A	PST 8D	PST 8
Current Capacity	Input	10A	15A	15A
	Output	10A RMS	15A RMS	15A RMS
Outlets	Standard Filtration	-	-	-
	LiFT Filtration	2	8	8
	Total Outlets	2	8	8
Linear Noise Attenuation	Differential Mode	>40 dB (10kHz-100kHz) >80 dB (100kHz-1GHz)	>40 dB (10kHz-100kHz) >80 dB (100kHz-1GHz)	>40 dB (10kHz-100kHz) >80 dB (100kHz-1GHz)
	Non-Sacrificial Surge Suppression		Yes (SMP)	Yes (SMP)
Extreme Voltage Shutdown (EVS)		Yes (Auto Reset)	Yes	Yes
Ground Contamination Free Circuitry		Yes	Yes	Yes
Linear Filtering Technology (LiFT)		Yes	Yes	Yes
EVS Voltage Shutoff		80VAC (Under Voltage), 140VAC (Over Voltage)	2	1
Telco Connectors		N/A	1 Pair	1 Pair
Cable / Satellite Connectors		N/A	2 Pairs	1 Pair
Universal Coax Protection	Shielded	Yes	Yes	Yes
	Insertion Loss	<0.5 dB	<0.5 dB	<0.5 dB
	HD 1080 i/p Ready	Yes	Yes	Yes
	Frequency Range	0 MHz - 2.2 GHz	0 MHz - 2.2 GHz	0 MHz - 2.2 GHz
Dimensions (HxWxD)		1.75" H x 5" W x 8.5" D	2.75" H x 3.375" W x 18.5" D	2.75" H x 3.375" W x 17.75" D
Agency		cCSAus	cULus	cULus
Weight		3 lbs.	5 lbs.	3 lbs.

**PST 6 / PST 2+6**



		PST 6	PST 2+6
Current Capacity	Input	15A	15A
	Output	15A RMS	15A RMS
Outlets	Standard Filtration	6	8
	LiFT Filtration	-	-
	Total Outlets	6	8
Linear Noise Attenuation	Differential Mode	> 40 dB (150 kHz - 100 MHz)	> 40 dB (150 kHz - 100 MHz)
Non-Sacrificial Surge Suppression		No	No
Extreme Voltage Shutdown (EVS)		No	No
Ground Contamination Free Circuitry		Yes	Yes
Linear Filtering Technology (LiFT)		No	No
Isolated Filter Banks		N/A	N/A
Telco Connectors		1 Pair	1 Pair
Cable / Satellite Connectors		1 Pair	1 Pair
Universal Coax Protection	Shielded	Yes	Yes
	Insertion Loss	<0.5 dB	<0.5 dB
	HD 1080 i/p Ready	Yes	Yes
	Frequency Range	0 MHz - 2.2 GHz	0 MHz - 2.2 GHz
Dimensions (HxWxD)		2.75" H x 3.75" W x 13.5" D	1.7" H x 11.75" W x 5" D
Agency		cULus	cULus
Weight		3 lbs.	2 lbs.

**F1500-UPS / F1000-UPS**



		F1500-UPS	F1000-UPS
Input	Voltage	85VAC - 137VAC	85VAC - 137VAC
	Frequency	57 - 63Hz	57 - 63Hz
Outlets		8	8
AC Power	Surge Protection	Non-sacrificial SMP (Series Multi-Stage Protection)	Non-sacrificial SMP (Series Multi-Stage Protection)
	Current Rating (Circuit Breaker)	12A	12A
	Over-voltage Shutoff (Fast Rise)	150 ± 5V	150 ± 5V
	Over-voltage Shutoff (Slow Rise)	140 ± 5V	132 ± 5V
	Noise Attenuation	10 dB @ 10kHz, 40 dB @ 100 kHz, 50 dB @ 500kHz	10 dB @ 10kHz, 40 dB @ 100 kHz, 50 dB @ 500kHz
	Linear Attenuation Curve	From 0.05 - 100 Ohms line impedance	From 0.05 - 100 Ohms line impedance
	Automatic Voltage Regulation Capture Range (Sensitive Mode)	96-135V	99-135V
	Automatic Voltage Regulation Output Range (Sensitive Mode)	120 ± 5%	120 ± 5%
	Automatic Voltage Regulation Capture Range (Standard Mode)	93-142V	94-142V
	Automatic Voltage Regulation Output Range (Standard Mode)	120 ± 10%	120 ± 10%
External Control Options		RS-232 TCP/IP (w/ BlueBOLT-CV1)	RS-232
IR Blasters		2	2
UPS Output	Voltage	120 ± 5V True Sine Wave	120 ± 5V Simulated Sine Wave
	Frequency	60 Hz ± 1%	60 Hz ± 1%
	UPS Output Capacity	1500VA, 900W @ 0.6pf Expandable with external battery pack (BATT1500-EXT)	1000VA, 600W @ 0.6pf
	UPS Backup Time	12 minutes at full load	3 minutes at full load
	Transfer Time	<4 milliseconds	<4 milliseconds
Agency		cULus	cULus
Dimensions	Product	3.5" H x 19" L x 17" W	4" H x 17" L x 13" W
	Weight	72 lbs.	36 lbs.

**MIW-XT / MIW-POWER-PRO-PFP / MIW-SURGE-1G**



	MIW-XT	MIW-POWER-PRO-PFP	MIW-SURGE-1G
Line Voltage	120V, 50/60Hz	120V, 50/60Hz	120V, 50/60Hz
Total Current Capacity	15A	15A	15A
Protection Modes	-	L-N, L-G, N-G	L-N, L-G, N-G
Energy Dissipation	-	546 Joules	1350 Joules
Peak Impulse Current	-	32,500A	-
Catastrophic Surge Circuit	-	Yes	-
Over-Voltage Shutoff	-	142 VAC ± 5 VAC	-
Thermal Fusing	-	Yes	-
Power Cord	11" Flat Plug Power Cord with NEMA 5-15P and NEMA 5-15R Connectors	-	-
Power Inlet Faceplate	IEC 320 C14 AC Connector (Signal Line Protection not included)	-	-
Power Outlet Faceplate	NEMA 5-15 AC Connector (Signal Line Protection not included)	-	-
IEC Power Inlet Cord	6' Cord with IEC 320-C13 and NEMA 5-15 Connectors	-	-
Agency	cCSAus	cCSAus	cCSAus UL 1449 2nd Ed. Suppressed Voltage Rating (@500A): 330V UL 1449 3rd Ed. Voltage Protection Rating (@3000A): 400V
Weight	4 lbs.	2 lbs.	.3 lbs.

**M-8X2 / D10-PFP / PLUGLOCK-PFP / VT-EXT**



		M-8x2	D10-PFP	PLUGLOCK-PFP
Current Capacity	Input	15A	15A	15A
	Output	15A RMS	15A RMS	15A RMS
Outlets	RFI/EMI Filtered	9	-	-
	No Filtering	-	10	5
	Total Outlets	9	10	5
Noise Attenuation	Differential Mode	>20dB, 1.5 to 200 MHz	N/A	N/A
Non-Sacrificial Surge Suppression		No	No	No
Extreme Voltage Shutdown (EVS)		No	No	No
Ground Contamination Free Circuitry		No	No	No
Linear Filtering Technology (LIFT)		No	No	No
AC Cord (Captive/Removable)		Captive	Captive	Captive
Dimensions (HxWxD)		1.75" x 19" x 3.75"	1.75" x 19" x 2.5"	12.6" x 2.3" x 2.5"
Rack Height		1RU	1RU	N/A
Agency		cTUVus	cULus	cTUVus
Weight		5 lbs.	3 lbs.	2.125 lbs.

**VT-EXT**



- 8 AC outlet (no surge protection or filtration - extends protection and filtration from Panamax/Furman power conditioner)
- 10 ft. power cord, detachable, IEC 320 C13/NEMA 5-15P with security retention clip
- Resettable circuit breaker
- Ground isolation from rack provided by plastic spacers in mounting clips
- 1 Year Limited Product Warranty
- Dimensions 18 x 1.5 X 1.5 in.
- Weight: 2 lbs.
- Agency: cULus

Specifications for all products subject to change without notice due to product improvement.

For product questions or to locate your local Authorized Furman Dealer, please contact us at 707-763-1010 or visit:

[www.furmanpower.com](http://www.furmanpower.com)



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