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.

Furman 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 systems.

While we at Furman are proud of our history, we are focused on the future and our commitment to stretch the bounds of technology to provide the most advanced power management solutions for any application.
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.

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 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 Infinium 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).
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 275 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.
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.

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.
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 overheat 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 230V AC (typically ± 5V). 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.
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 (240V 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 120V on the line and 120V 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 120V 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.

THE WIDEST BANDWIDTH OF NOISE REDUCTION AVAILABLE
IT-REFERENCE 16E i .................................................. Page 9
Discrete Symmetrically Balanced AC Power Conditioner, 16A

SPR-16E i ................................................................. Page 10
Stable Power AC Voltage Regulator, 16A

ELITE-16 PF E i .......................................................... Page 11
Ultra-Linear Filtering AC Power Conditioner, 16A

ELITE-10 E i ................................................................. Page 12
Linear Filtering AC Power Conditioner, 10A

AC-210A E ................................................................. Page 13
Compact Linear Filtering AC Power Conditioner, 10A
IT-REFERENCE 16E i

FEATURES

- Discrete Symmetrically Balanced Power with Dual Screen Technology cancels hum-inducing noise from audio and video.
- Four discrete power banks eliminate inter-component interference and noise.
- Power Factor Technology provides over 80A surplus current for power-starved amplifiers.
- Linear Filtering Technology for unequaled audio / video clarity.
- Virtually maintenance-free AC surge suppression.
- Extreme Voltage Shutdown (EVS) guards against prolonged overvoltage conditions.
- Zero ground contamination circuitry protects critical digital components.
- 4 pairs of HD-ready cable / satellite isolated TVSS protected F-connectors.
- 16A capacity.

DESCRIPTION

Designed for the most ambitious high-current audiophile, video-phile and home theater systems, the Furman IT-Reference 16E i’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 16E i to uncover unprecedented levels of video and audio detail. The IT-Reference 16E i 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. The IT-Reference 16E i delivers pristine, flawless AC power to connected equipment, and may be combined with the Furman SPR-16E i Stable Power Regulator to provide the most comprehensive AC power management solution possible.
STABLE POWER AC VOLTAGE REGULATOR, 16A

SPR-16E i

FEATURES

• Provides an ultra-stable 230 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 overvoltage conditions
• Zero ground contamination circuitry protects critical digital components
• Ultrasonic bi-filtering isolates digital/video circuits, analog components, and high-current components from one another
• Cool running, noise free technology allows placement in critical listening environments
• Laboratory precision grade voltmeter displays incoming voltage
• 4 pairs of HD-ready cable / satellite isolated TVSS protected F-connectors
• 16A RMS capacity

DESCRIPTION

With the SPR-16E i’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-16E i’s solid state multi-tap autoformer provides AC regulation for a continuous output of 230VAC (+/- 5.0V typically) with an input voltage range of 213VAC to 245VAC (the SPR-16E i will regulate voltages well beyond 213VAC to 245VAC, but not within 5.0VAC). 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, our micro-processor-controlled, 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, then synthesizing an AC output signal.

The SPR-16E i 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 overvoltage conditions.

The SPR-16E i may be used in combination with a Furman IT-Reference 16 E i Discrete Symmetrical Power Conditioner, providing the most comprehensive AC power management solution available.
ELITE-16 PF E i

FEATURES

- Power Factor Technology provides over 55 Amps peak charge surplus current for power-starved amplifiers
- Ultra-Linear Filtering Technology for unequaled audio and video clarity
- Series Multi-Stage Protection provides maximum AC surge suppression
- Extreme Voltage Shutdown (EVS) guards against prolonged overvoltage conditions
- Zero ground contamination circuitry protects critical digital components
- Ultrasonic bi-filtering isolates digital/video circuits, analog components, and high-current components from one another
- Retractable LED lamps illuminate a cabinet or rack full of equipment
- 4 pairs of HD-ready cable / satellite isolated TVSS protected F-connectors
- 16A capacity

DESCRIPTION

The Furman Elite-16 PF E i is engineered to provide today’s home theater systems with clean, ultra-low noise AC power to assure maximum performance. The Elite 16 PF E i’s Ultra-Linear Filtering reduces noise across an even greater bandwidth than Furman’s Linear Filtering Technology - in fact, the Elite-16 PF E 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-16 PF E i is Furman’s unique Power Factor Technology. The Elite-16 PFEi 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-16 PF E i’s 16A capacity provides sufficient current for large power amplifiers and other current-hungry components.

The dual retractable front panel LED lights on the Elite-16 PF E i provide ideal, discreet illumination to a rack or cabinet full of equipment.
ELITE-10 E i

FEATURES

- Linear Filtering Technology (LiFT) for stunning audio / video clarity
- Series Multi-Stage Protection provides maximum AC surge suppression
- Extreme Voltage Shutdown (EVS) guards against prolonged overvoltage conditions
- Retractable LED lamps illuminate a cabinet or rack full of equipment
- Zero ground contamination circuitry protects critical digital components
- Ultrasonic bi-filtering isolates digital and video circuits from analog components
- Laboratory precision grade voltmeter displays incoming voltage
- 4 pairs of HD-ready cable / satellite isolated TVSS protected F-connectors

DESCRIPTION

The Furman Elite-10 E i packs Linear Filtering Technology, robust SMP protection, front panel pull-out rack lights, 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-10 E i’s Linear Filtering Technology dramatically reduces AC noise in a linear fashion across a very wide bandwidth.

The Elite-10 E i 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-10 E i 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.
AC-210A E

FEATURES

• Series Multi-Stage Protection provides the highest level of protection available
• Linear Filtering Technology significantly reduces AC line noise
• Auto-resetting Extreme Voltage Shutdown protects equipment from dangerous overvoltage conditions and automatically resets when voltage returns to safe levels
• Zero ground contamination circuitry assures delivery of pure AC
• Compact chassis design allows for discrete, unobtrusive placement
• Included mounting brackets for easy installation.

DESCRIPTION

At only 45mm H x 127mm W x 216mm D, and weighing in at only 1.36kg, the AC-210A E’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 discretely located, remote power protection and purification are needed. Included mounting brackets make installation simple and easy.

The Furman AC-210A E offers two outlets providing Linear Filtering Technology, Series Multi-Stage Protection, and Extreme Voltage Shutdown - the essential features of the larger Elite Series products. When employing the AC-210A E, 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-210A E 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.
F1500-UPS E  Battery Backup

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 220V/230V/240V (± 10%) output
- Optional Battery Extension Pack available for extended runtime capability
- Optional rack ears included
- 10 outlets

DESCRIPTION
Furman’s F1500-UPS E 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 E robust 1500VA battery backup provides true sine wave output (ideal for A/V equipment) and will keep connected equipment powered on for up to 12 to 80 minutes depending on 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.
What Is BlueBOLT?

BlueBOLT is a free, cloud-based platform for control and monitoring of Panamax and Furman power management products. BlueBOLT can be used in integrated electronics systems to drastically reduce service calls by remotely rebooting problem components, send alerts regarding onsite system issues, manage energy use, monitor network connectivity, and much more.

Applications:

- Retail
- Restaurants/Bars
- House of Worship
- Medical Offices
- Fitness Centers
- Education
- Dance Clubs
- Property Management
- Research/Labs
- Corporate Meeting Rooms
- Auditoriums
- Hotels/Hospitality
**BlueBOLT – REMOTE POWER MANAGEMENT**

**BlueBOLT-CV2**

Online Remote Power Management  
(For use with the F1500-UPS E)

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

**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.

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-too-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
GLOBAL COMPATIBILITY

Furman products are engineered to be universally compatible with the many regional power requirements around the globe. All 220V-240V Furman power management products feature IEC outlets for maximum convenience and flexibility in installation. Furman offers a wide variety of adaptor cords to provide connection solutions for all global applications.

IEC ADAPTOR CORDS

**ADP-10E1** (1 meter long)
To plug components with removable 10A IEC cords into Furman products with 10A IEC outlets.
10A Male IEC to 10A Female IEC.

**ADP-10E2** (2 meters long)
To plug components with removable 10A IEC cords into Furman products with 10A IEC outlets.
10A Male IEC to 10A Female IEC.

**ADP-16E2** (1 meter long)
To plug components with removable 16A IEC cords into Furman products with 16A IEC outlets.
16A Male IEC to 16A Female IEC.

UNITED KINGDOM (UK)

**ADP-IEC UK** (0.1 meter long)
To plug components with UK plugs into Furman products with 10A IEC outlets.
10A Male IEC to Female UK.

**UK-10** (2.5 meters long)
For use with 10A Furman products with removable IEC power cord.
10A IEC Female to 10A Male.

**UK-16** (2.5 meters long)
For use with 10A Furman products with removable IEC power cord.
16A IEC Female to 16A Male.

WESTERN EUROPE (SCHUKO)

**ADP-IEC EURO** (0.1 meter long)
To plug components with European SCHUKO plugs into Furman products with 10A IEC outlets.
10A Male IEC to Female SCHUKO.

**SCHUKO-10** (2.5 meters long)
For use with 10A Furman products with removable IEC power cord.
10A IEC Female to SCHUKO Male.

**SCHUKO-16** (2.5 meters long)
For use with 10A Furman products with removable IEC power cord.
16A IEC Female to SCHUKO Male.

AUSTRALIA / NEW ZEALAND (AUS)

**ADP-AUS** (0.1 meter long)
To plug components with Australian plugs into Furman products with 10A IEC outlets.
10A Male IEC to Female Australian.

**AUS-10** (2.5 meters long)
For use with 10A Furman products with removable IEC power cord.
10A IEC Female to Australian Male.

**AUS-16** (2.5 meters long)
For use with 16A Furman products with removable IEC power cord.
15A IEC Female to Australian Male.
## IT-REFERENCE 16E i / SPR-16E i / ELITE-10 E i / AC-210A E

<table>
<thead>
<tr>
<th>Feature</th>
<th>IT-REFERENCE 16E i</th>
<th>SPR-16E i</th>
<th>ELITE-16 PF E i</th>
<th>ELITE-10 E i</th>
<th>AC-210A E</th>
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