FURMAN F1000-UPS

UNINTERRUPTIBLE POWER SUPPLY
BATTERY BACKUP/POWER CONDITIONER

The F1000-UPS: Battery Backup For A/V, Not I.T.

Furman proudly introduces the F1000-UPS: battery backup designed exclusively for audio/video professionals and home theater aficionados.

For decades, traditional audio/video components were simple analog devices designed to easily weather power outages of well over two seconds. Later, as computer and microprocessor based components gained in popularity, their extraordinary sensitivity to even a fraction of a second's power loss was managed with traditional UPS (uninterruptible power supply) technology.

Unfortunately, these units were solely designed for the I.T. professional. Though they included many technologies and features appropriate to that application, they fell short for premium audio/video components. Though many of these manufactures later recognized the ever-emerging professional audio/video, broadcast, and home theater market, their lack of experience led merely to a re-tooled chassis. These hastily produced UPS devices lacked the technologies necessary to truly optimize protection, performance, and control for today's audio video components.

The Furman F1000-UPS more than fills this void, and offers your system unparalleled battery back-up technology, created from the ground up to meet the exacting demands of the world's most sensitive audio, video and control systems!

Protection
Typical UPS systems feature antiquated surge suppression technologies that can cause as much damage and annoying lock-ups as they attempt to prevent. Only Furman offers battery back-up with our road-proven SMP non-sacrificial, zero ground contamination surge suppression technology and EVS Extreme Voltage Shutdown. After all, the most robust battery can not function if the accompanying circuits are damaged. With Furman's F1000-UPS, you can expect years of trouble free operation*.

Filtration
Though many control devices are relatively immune to moderate levels of AC line noise, today's more sensitive devices (such as DLP projectors and line-level signal processors) certainly are not. High-definition technologies have pushed resolution to levels so extreme that virtually any AC noise capable of coupling with your system's signal will distort, mask, or destroy the performance advantages we all strive so hard to capture and reproduce. Once again, the F1000-UPS is different. While other UPS devices feature AC line filters suitable for a I.T. closet, only Furman employs our exclusive Linear Filtering Technology (LiFT). This advanced noise filtering technology assures that today's ultra-wide dynamic range is maintained as it must be – pristine. Remember, less AC noise equals greater content, greater resolution, and higher definition.

Programmability & Control
Audio/video systems can vary greatly in their size and components, and as such, flexibility is needed in determining how a battery backup solution should function under different circumstances. Because of this, Furman has provided open source RS-232 control over two independent AC outlet banks, with a wide range of control features to interface with an existing automation solution. Dual programmable IR control allows the unit to send a shut down command to remote components – no more expensive projector bulbs to replace in the event of a blackout.

** As with any battery back up system, the battery pack must be replaced periodically (typically every 2 years)*

TYPICAL BACKUP COMPONENTS

Because of the nature of battery backup technology, high-current audio and video components such as power amplifiers, powered subwoofers, and high-wattage displays are not recommended for use with the F1000-UPS. Not only will these components drain battery power quite rapidly, line impedance will be raised due to the F1000-UPS's (or any) AVR and AC to DC inverter, which can induce current compression and noticeably diminish performance with high-current A/V equipment. The following components are ***ideal*** for use with the F1000-UPS:

DAWs • Satellite Receivers • Cable Boxes • Digital Video Recorders • Media Servers
External Hard Drives • Digital Mixing Consoles • Lamp Based Video Displays • Control Systems

For power management of other components, Furman recommends Classic or Prestige Series Power Conditioners. For high-current components such as power amplifiers and powered subwoofers, solutions featuring Furman's exclusive Power Factor Technology are ideal.

APPROXIMATE RUN TIME, 1000VA**

Satellite Receiver or Cable Box = 45 Minutes
Digital Mixing Console (16 Channel) = 32 minutes
Media Server + Control System = 9 Minutes
DAW Computer + Digital I/O + External Hard Drive + 24" LCD Monitor = 4 Minutes

These run times should be used as a **guideline** only and are dependant on **device & usage.

PRODUCT FEATURES

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

Dual Learning IR Blasters allow safe shutdown of remote components

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

Custom programming provides control of unit via RS-232 interface

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

Critical Load Management prioritizes the allocation of temporary power to connected equipment

1000VA simulated sine wave battery backup protects your data in a power failure and allows the opportunity to shut-down the system gracefully

Easy to use power control software assists you in maximizing the performance of your UPS

Digital indicators provide information on power quality and operational status of unit

PRODUCT SPECIFICATIONS

INPUT
Voltage: 85 - 137 VAC
Frequency: 57 - 63 Hz

AC POWER
Surge Protection: Non-sacrifical SMP (Series Multi-Stage Protection)
Circuit Breaker Current Rating: 12 A
Overvoltage Shutoff, fast rise: 150 ± 5V
Overvoltage Shutoff, slow rise: 132 ± 5V
Noise Attenuation: 10 dB @ 10kHz, 40 dB @ 100 kHz, 50 dB @ 500kHz
Linear Attenuation Curve: From 0.05 - 100 Ohms line impedance
Automatic Voltage Regulation, Sensitive Mode Capture Range: 99 – 135 V
Automatic Voltage Regulation, Sensitive Mode Output Range: 120 ± 5%
Automatic Voltage Regulation, Standard Mode Capture Range: 94 – 142 V
Automatic Voltage Regulation, Standard Mode Output Range: 120 ± 10%

UPS OUTPUT
Voltage: 120 ± 5 V Simulated Sine Wave
Frequency: 60 Hz ± 1%
UPS Output Capacity: 1000VA, 600W @ 0.6pf (Approx 5A)
UPS Backup Time: 3 minutes at full load
Transfer Time: < 4ms

DIMENSIONS
Product: 4" H x 17" L x 13" W (w/feet)
Product: 3.5" H x 17" L x 13" W (w/o feet)
Weight: 36 lbs.