

# FURMAN P-1800 AR

# PRESTIGE SERIES VOLTAGE REGULATOR/POWER CONDITIONER



The 15 Amp P-1800 AR delivers a stable 120 volts of AC power to protect equipment from problems caused by AC line voltage irregularities such as sags, brownouts, or overvoltages - all of which can cause sensitive electronic equipment to malfunction or sustain damage. The P-1800 AR accepts input voltages over a wide AC voltage range and transforms it to a constant output of 120V,  $\pm 5V$ . Voltages beyond that range may also be converted to usable levels, depending on the range variance.

Additionally, the P-1800 AR is a full-featured power conditioner that filters and purifies AC power, reducing line noise and ensuring optimum performance. Not only will your equipment perform better with Furman's Linear Filtering Technology (LiFT), but it will also be fully protected by our exclusive Series Multi-Stage Protection (SMP), and Extreme Voltage Shutdown (EVS). This circuitry provides the highest level of power protection available.



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



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



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



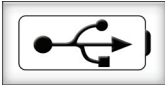
*True RMS Voltage Regulation delivers a stable 120 volts of AC power to protect equipment from problems caused by AC line voltage irregularities*



*Large LED voltmeter/ammeter displays incoming voltage and output current draw*



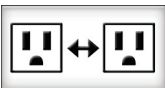
*Protection OK, Extreme Voltage and color-coded voltage range indicators provide information on power quality and operational status of unit*



*Front panel USB convenience outlet allows you to charge most media devices or power a USB lamp*



*Isolated outlet banks minimize inter-component interference and noise contamination*



*Three widely spaced rear panel outlets accommodate bulky AC power transformers with "Secure Straps" plug locking system*



*15 amp rating featuring a high inrush magnetic circuit breaker for added protection*



*Nine total outlets (8 rear panel outlets and one front panel convenience outlet)*



*Rear panel BNC connector powers any standard gooseneck lamp for rear rack illumination (Lamp sold separately)*



### SMP (Series Multi-Stage Protection)

Audio/Video professionals can never accept down time, corrupted data, or unreliability. It is for this reason that a virtually non-sacrificial transient voltage surge suppression systems, such as SMP, is the best choice for critical applications. With Furman's SMP, there is zero downtime. In fact, these circuits can typically handle multiple 6000 volts or 3000 amp pulses without sustaining any damage.



### LiFT (Linear Filtering Technology)

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 you 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.



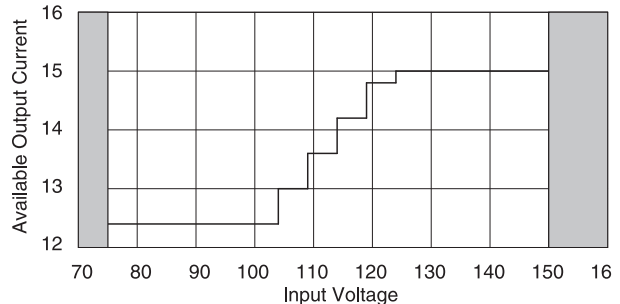
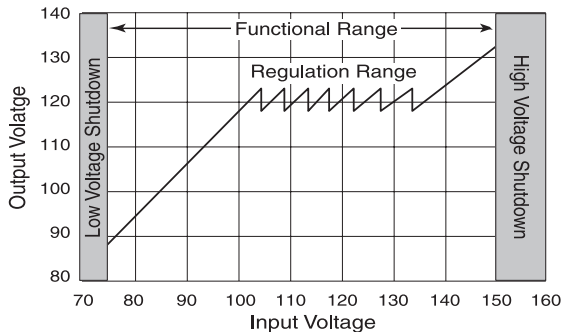
### EVS (Extreme Voltage Shutdown)

Furman's EVS constantly monitors incoming voltage, and once any overvoltage condition over 140 volts AC is detected, a relay opens which immediately shuts down the unit and all connected equipment. An indicator light informs the user there is a problem, and once the condition has been corrected, the unit may be reset and will operate normally.



### True RMS Voltage Regulation

Designed specifically for A/V equipment, True RMS Voltage Regulation provides stable output voltage by utilizing a microprocessor controlled, ultra-low noise toroidal autoformer. Unlike most commercial regulators, Furman's True RMS Voltage Regulation utilizes solid-state switching for virtually silent regulation without injecting noise onto the AC line.



## SPECIFICATIONS

**MAXIMUM CURRENT:**  
15 AMPS @ 124 VOLTS

**LINE CORD:**  
CAPTIVE 3/14 AWG, 10 FT, BLACK CORD WITH NEMA 15 PLUG

**BNC SOCKET WITH SWITCH FOR REAR RACK LAMP:**  
12VAC 500MA MAX (LAMP NOT INCLUDED)

**OPERATING VOLTAGE:**  
90 TO 139 VAC

**OVER VOLTAGE SHUTDOWN:**  
140 VAC NOMINAL

**APPROXIMATE INPUT VOLTAGE CAPTURE RANGE:**  
97 TO 137 VAC

**SPIKE PROTECTION MODES:**  
LINE TO NEUTRAL, ZERO GROUND LEAKAGE

**SPIKE CLAMPING VOLTAGE:**  
188 VAC PEAK @ 3,000 AMPS

**RESPONSE TIME:**  
1 NANOSECOND

**MAXIMUM SURGE CURRENT:**  
6,500 AMPS

**NOISE ATTENUATION:**  
10 DB @ 10KHZ, 40 DB @ 100 KHZ, 50 DB @ 500KHZ

**DIMENSIONS:**  
19" W X 12" D X 1.75" H (483MM W X 305MM D X 45MM H)

**WEIGHT:**  
15 LBS.

**POWER CONSUMPTION (NO LOAD):**  
5 WATTS

