

ANI-17015ASUR

9-Outlet Rack-Mountable Power Conditioner w/ Built-in Power Meter
INSTRUCTION MANUAL



A-Neutronics, Inc.



SAFETY INFORMATION



1. To ensure the best results from this product, please read this manual and all other documentation before operating your equipment. Retain all documentation for future reference.
2. Follow all instructions printed on unit chassis for proper operation.
3. To reduce the risk of fire, do not spill water or other liquids into or on the unit, or operate the unit while standing in liquid.
4. Make sure power outlets conform to the power requirements listed on the back of the unit. Keep unit protected from rain, water and excessive moisture.
5. Do not attempt to clean the unit with chemical solvents or aerosol cleaners, as this may damage the unit. Dust with a clean dry cloth.
6. Do not use the unit if the electrical power cord is frayed or broken. The power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords and plugs, convenience receptacles, and the point where they exit from the appliance.
7. Do not force switched or external connections in any way. They should all connect easily, without needing to be forced.
8. Always operate the unit with the AC ground wire connected to the electrical system ground. Precautions should be taken so that the means of grounding of a piece of equipment is not defeated.
9. AC voltage must be correct and the same as that printed on the rear of the unit. Damage caused by connection to improper AC voltage is not covered by any warranty.
10. Turn power off and disconnect unit from AC current before making connections.
11. Never hold a power switch in the "ON" position.
12. This unit should be installed in a cool dry place, away from sources of excessive heat, vibration, dust, moisture and cold. Do not use the unit near stoves, heat registers, radiators, or other heat producing devices.
13. Do not block fan intake or exhaust ports. Do not operate equipment on a surface or in an environment which may impede the normal flow of air around the unit, such as a bed, rug, carpet, or completely enclosed rack. If the unit is used in an extremely dusty or smoky environment, the unit should be periodically "blown free" of foreign dust and matter.
14. To reduce the risk of electric shock, do not remove the cover. There are no user serviceable parts inside. Refer all servicing to qualified service personnel. There are no user serviceable parts inside.
15. When moving the unit, disconnect input ports first, then remove the power cable; finally, disconnect the interconnecting cables to other devices.
16. Do not drive the inputs with a signal level greater than that required to drive equipment to full output.
17. The equipment power cord should be unplugged from the outlet when left unused for a long period of time.
18. Save the carton and packing material even if the equipment has arrived in good condition. Should you ever need to ship the unit, use only the original factory packing.
19. Service Information Equipment should be serviced by qualified service personnel when:
 - A. The power supply cord or the plug has been damaged.
 - B. Objects have fallen, or liquid has been spilled into the equipment.
 - C. The equipment has been exposed to rain.
 - D. The equipment does not appear to operate normally, or exhibits a marked change in performance.
 - E. The equipment has been dropped, or the enclosure damaged.

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INTRODUCTION

The ANI-17015A-SUR (9) outlet rack-mountable power conditioner power strip (PDU) with built-in power meter has many features, including power monitoring display; (9) AC outlets (7 in the front and 2 in the rear); Isolated Banks; Linear filtering technology (LiFT); and coaxial, telephone, and ethernet protection circuits. This device can be mounted in a rack, utilizing 1RU of space, or used as a desktop. There are (4) status LEDs indicating incoming power, grounding, and surge protection. This PDU also has a power monitoring display, showing voltage, amperage, watts, apparent power, frequency, power factor, kilowatt-hour, and run time. Each coax connection supports any type of RF signal up to 3.0GHz, including but not limited to DirecTV®, Dish Network®, Cable STB, Off-Air antenna and others. This PDU comes with a 5 year warranty.

INSTALLATION

1. This PDU can be rack mounted or used as a desktop.
 - a. It is designed to be installed in a standard 19" equipment rack and utilizes (1) rack unit (1RU) of space.
 - b. Optional: Remove the (4) bottom feet. Secure the unit to the rack using (4) slots and (4) screws. (not provided)
2. Plug the AC power cable into a properly grounded NEMA 5-15R receptacle.
3. Plug equipment into receptacles on the back of the ANI-17015ASUR.
4. Press the On/Off switch on the front of the device to the "On" position.
5. Provides protection for up to (9) circuits.

SAFETY PRECAUTIONS

Please read all instructions before attempting to unpack, install or operate this equipment and before connecting the power supply. Please keep the following in mind as you unpack and install this equipment:

- Always follow basic safety precautions to reduce the risk of fire, electrical shock and injury to persons.
- To prevent fire or shock hazard, do not expose the unit to rain, moisture or install this product near water.
- Never spill liquid of any kind on or into this product.
- Never push an object of any kind into this product through any openings or empty slots in the unit, as you may damage parts inside the unit.
- Do not attach the power supply cabling to building surfaces.
- Use only the supplied power supply unit (PSU). Do not use the PSU if it is damaged.
- Do not allow anything to rest on the power cabling or allow any weight to be placed upon it or any person walk on it.
- To protect the unit from overheating, do not block any vents or openings in the unit housing that provide ventilation and allow for sufficient space for air to circulate around the unit.

DISCLAIMERS

The information in this manual has been carefully checked and is believed to be accurate. We assume no responsibility for any infringements of patents or other rights of third parties which may result from its use.

We assume no responsibility for any inaccuracies that may be contained in this document. We make no commitment to update or to keep current the information contained in this document.

We reserve the right to make improvements to this document and/or product at any time and without notice.

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FEATURES

FEATURES

- **Power Monitoring Display:** The built-in power meter shows (8) different values for all (9) outlets. When the power strip is first plugged into an AC power source and the power is turned on, the backlit display will show the incoming voltage and will remain on until the Function button is pressed. The power meter has (8) meter functions; Voltage, Amperage, Watts, VA (apparent power), Hz (frequency), PF (power factor), KWh (kilowatt-hour) and Run Time (clock).
- **9-AC Outlets Total:** There are (7) AC outlets on the rear and (2) on the front. The rear (3) and front (2) are **“always on”**. These (5) outlets are energized the moment the 10’ power cord is plugged into an AC outlet. There are LED’s above each of these outlets to indicate they are energized. There are (3) **“switched filtered”** and (1) **“switched high current”** outlets. These switched outlets respond to the front panel power button (labeled: **“Switch”** on the front panel).
- **Isolated Banks:** Linear EMI/RFI Noise Filtration with Isolation between Outlet Banks. Your electronic components are constantly being subjected to electromagnetic interference (EMI) and radio frequency interference (RFI) through their AC power source. These types of interference can cause degradation of the overall performance of your entire system. Common symptoms of interference includes loss of picture detail, dull colors, pops, hisses, hums and other artifacts. The ANI-17015ASUR is designed to eliminate these types of interferences and provide clean power to your equipment.
- **Linear Filtering Technology (LiFT):** For improving picture and sound quality nothing filters AC noise better. LiFT evenly eliminates noise across the entire bandwidth, ensuring peak audio and video performance by reducing harmonic distortion and improving the signal-to-noise ratio. With LiFT, you are assured consistent performance and the highest resolution from any audio or video system.
- **Cable/ Antenna / Satellite as Well as Telephone and LAN Line Protection:** Coaxial protection circuits achieve optimum signal quality from our new coaxial protectors that have the smallest signal loss on the market - less than 0.5dB of attenuation from 0Hz to 3.0GHz. Our upgraded coaxial protection has been specifically designed to virtually eliminate signal loss. The clamping level of 75V will meet the demands of both cable and satellite voltage while minimizing exposure to damaging spikes and surges.

The ANI-17015ASUR provides telephone protection on one set of RJ-11 jacks. The telephone line protection circuitry utilizes solid-state SIDACTors for reliability and unsurpassed protection. The clamping level of the ANI-17015ASUR’s telephone protector is 260 volts. This will allow typical ring voltage (90-130VAC) and operating battery voltage (-48DC) to pass through the circuit and still protect modems from damage.

Protection circuits are also provided for 10/100 BASE-T Ethernet lines. Incoming LAN line **MUST** be plugged into the **“Network IN”** jack. Patch cord to the equipment **MUST** be plugged into the **“Network Out”** jack. All (8) wires are protected with 6.8V clamping.

SPECIFICATIONS

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- **Electrical Rating:** 125VAC, 15 Amp
- **Peak Surge Current:** 270kA@8x20μs
- **Clamping:** L-N 330, L-G 500, N-G 500
- **EMI/RFI Filtering:** 60dB@100kHz
- **Response Time:** <5ns
- **Input Connection Type:** SJT 14AWG cord, 5-15P (15A)
- **Color:** Black
- **Form Factor:** Floor/Wall mountable
- **Phone Protection:** RJ-11 (One-in/Two-out)
- **Coax Protection:** Signal bandwidth up to 3.0GHz, Signal attenuation > -0.5dB (3-in / 3-out)
- **Output Connection Type Back (7):** NEMA 5-15R (15A) receptacles
- **Output Connection Type Front (2):** NEMA 5-15R (15A) receptacles
- **Filtering: EMI/RFI:** 150KHz to 100MHz
- **Dimensions (LxWxH):** 17 x 6 x 2 in
- **Weight:** 6.4 lb (Unit only) / 6.8 lb (Net)
- **Certifications:** UL 1449
- **Warranty:** 5 Years
- **Frequency:** 60Hz
- **Data Protection:** RJ-45
- **Temperature:** 32°F (0°C) to 104°F (40°C) Operating, 5°F (-15°C) to 114°F (45.6°C) Non-operating

OPERATION

STATUS LEDS

(4) status LEDs are located on the front panel indicating incoming power, grounding and surge protection. If any one of these LEDs is not illuminated, the unit is not functioning properly.

- **Switch:** When illuminated, indicates the switched outlets are energized.
- **Power:** When illuminated, indicates the power switch is connected to an AC source.
- **Ground:** Lets you know you have a good connection to the ground. This is important as a ground is needed to dissipate large power surges.
- **Surge:** LEDs are constantly illuminated letting you know the power strip is busy protecting your electronics.

POWER MONITORING DISPLAY

The voltage reading is displayed when power is first turned on and will remain on until the **FUNCTION** button is pressed.

The **FUNCTION** button is the top button next to the display. Pressing this button will cycle through the (8) meter functions. The order of the functions are: Voltage, Amperage, Watts, VA (apparent power), Hz (frequency), PF (power factor), KWh (kilowatt-hour) and Run Time (clock).

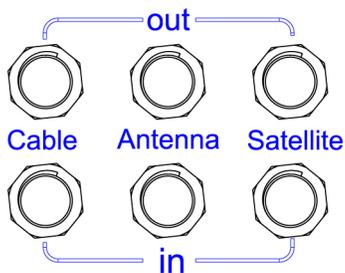
The KWh and Clock functions can be reset by turning the power switch off for 3 seconds.

The **SET** button is the bottom button next to the display.

To set a load current warning: Hold the **SET** button for 3 seconds, then press the **FUNCTION** button to start stepping up the current in 1 amp increments. Once the desired amperage is reached press the **SET** button to save. The display will then flash if the load current limit is exceeded.

Over Voltage will be indicated on the display by “**OUP**” and will occur when the input voltage is above 145 volts.

Over Current will be indicated by a blinking screen when the input current exceeds the selected amperage level.



You are not limited to the label on the coax connections. Each connection supports any type of RF signal up to 3.0GHz, including but not limited to DirecTV®, Dish Network®, Cable STBs, Off-Air antennas, etc.

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LIMITED WARRANTY

This Warranty is given ONLY to purchasers who buy for commercial or industrial use in the ordinary course of each purchaser's business.

General:

A-Neutronics, Inc. products are in our opinion the finest available. We take pride in our products and are pleased that you have chosen them. Under certain circumstances we offer with our products the following five (5) year Warranty against Defects in Material and Workmanship. Please read your Warranty carefully. This Warranty sets forth our responsibilities in the unlikely event of defect and tells you how to obtain performance under this Warranty.

FIVE YEAR LIMITED WARRANTY AGAINST DEFECTS IN MATERIAL AND WORKMANSHIP

A-NEUTRONICS, INC. PRODUCTS COVERED: ANI-17015ASUR Series

Terms of Warranty:

As provided herein, the A-Neutronics, Inc. product is warranted to be free of defects in material and workmanship for a period of Five (5) years from the date of delivery of the product to User. The delivery date will be determined only from the A-Neutronics, Inc. bill of lading. If any of the A-Neutronics, Inc. products fails to conform to the warranty within the warranty period, A-Neutronics, Inc., at its option, will furnish new or factory remanufactured parts for repair or replacement of that part. Warranty Extends to First Purchaser for Use, Non-transferable:

This Warranty is extended to the first person, firm, association or corporation for whom the A-Neutronics, Inc. product specified herein is originally installed for use in the United States (the "User"). This Warranty is not transferable or assignable without the prior written permission of A-Neutronics, Inc.

Assignment of Warranties:

A-Neutronics, Inc. assigns to User any warranties which are made by manufacturers and suppliers of components of the A-Neutronics, Inc. product and which are assignable, but A-Neutronics, Inc. makes NO REPRESENTATIONS as to the effectiveness or extent of such warranties, assumes NO RESPONSIBILITY for any matters which may be warranted by such manufacturers or suppliers and extends no coverage under this warranty to such components.

Descriptions:

A-Neutronics, Inc. warrants for the period and on the terms of the Warranty set forth herein that the A-Neutronics, Inc. product will conform to the descriptions contained in A-Neutronics, Inc. final invoices, orders and A-Neutronics, Inc. product brochures. A-Neutronics, Inc. does not control the installation and use of any A-Neutronics, Inc. product. Accordingly, it is understood that the Descriptions are NOT WARRANTIES OF PERFORMANCE and NOT WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE.

Obtaining Performance Under This Warranty:

Within a reasonable time, but in no case to exceed thirty (30) days, after User's discovery of a defect, User shall contact A-Neutronics, Inc. and request a return authorization number. User shall ship the product, with proof of purchase, to A-Neutronics, Inc. freight prepaid. A-Neutronics, Inc. products shipped to A-Neutronics, Inc. without a return authorization number will be refused and returned freight collect to User at User's expense. A-Neutronics, Inc. products shipped by User to A-Neutronics, Inc. which have incurred freight damage due to User's improper packaging of the product will not be covered by this Warranty and any repairs or replacement parts, components or products needed will be invoiced in the full current price amount and returned freight collect to User.

Subject to the limitations specified herein, A-Neutronics, Inc. will repair or replace, at its option, without charge for A-Neutronics, Inc. labor or materials, subsequent to its inspection and F.O.B. A-Neutronics, Inc. facility, the A-Neutronics, Inc. product shipped to A-Neutronics, Inc. with a return authorization number and warranted hereunder which does not conform to the Warranty. Replacement parts, components or products shipped to User prior to A-Neutronics.

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