

# MS-SL12-RD

17-Outlet LCD Display Power Strip 20Amp  
INSTRUCTION MANUAL





## 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 MS-SL12-RD AC power distribution unit offers 20 amps, 120 volt capacity in a single rack mount cabinet. The built in power meter has (8) different displays showing Volt, Amps, Watt, VA, Frequency, Power Factor, Kilowatts and KW per hour. Fixed mounting flanges offer a solid rack mount installation. Uses only (1) rack space (1U) when installed in any 19 inch rack. All-steel housing with (10) rear-facing outlets and (7) front-facing outlets measures only 4.5 inches in depth. Unfiltered electrical pass-through and lighted switch with latching safety cover prevents risk of accidental turn-off. Ideal for distributing alternate waveform UPS or generator power in rack enclosures, network closets and more. Includes 15 foot AC power cord, 20 amp circuit breaker and a 3-year limited warranty.

## 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.

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# SPECIFICATIONS

## SPECIFICATIONS

- **Overall Length:** 19 inch (with rack mount)
- **Number of Receptacles:** 17 (7 front/10 rear)
- **Cord Length:** 15ft
- **Mounting Type:** Flange Removable (rack mounting screws not provided)
- **Approval:** UL Approved
- **Maximum Rating:** 60Hz, 20A, 120V
- **Unit Color:** Black
- **Housing:** Steel
- **Dimensions (LxWxD):** 17.25 x 3.75 x 1.75 in
- **Type of Receptacle:** NEMA 5-20R (20A 125V) Black Outlet
- **Circuit Breaker:** 20 amp
- **Cord Type:** 12/3 SJT
- **Type of Plug:** NEMA 5-20P (20A 125V) Molded on Plug
- **Color of Cord:** Black
- **Cord Location:** Exits the rear of the housing
- **Switch:** Lighted with locking cover
- **Display:** LCD with backlight
- **Weight:** 6.0 lb (Unit only) / 6.4 lb (Net)

**Note:** 20amp plugs **DO NOT FIT** 15amp outlets. 15amp is typical for a residence.

This power strip **WILL NOT** work in your residence.

# LCD DISPLAY METER FUNCTION

## METER FUNCTION



**AMP**

**PF**

**VOLT**

**WATT**

**Hz**

**VA**

**KWH**

**KWH  
(TIME)**

### (8) FUNCTIONS PROVIDED

Plug in the power strip and it starts to display current power supply status

- Voltage
- Amp
- Watt
- VA
- Hz
- PF
- Kwh
- Runtime Clock

No start button required. FUNCTION and SET buttons are located on the right side of the LCD Display.

### OPERATION

1. Plug in the strip, the display will show the voltage reading.
2. Press “FNC” button, to show amperage reading.
3. Press “FNC” button again, to show watt reading.
4. Press “FNC” button again, to show VA (apparent power) reading.
5. Press “FNC” button again, to show Hz (frequency) reading.
6. Press “FNC” button again, to show PF (power factor) reading.
7. Press “FNC” button again, to show KWH (kilo watt per hour) reading.
8. Press “FNC” button again, to show runtime (clock).

### OVER VOLTAGE AND OVER CURRENT WARNING

1. LCD display will show “OUP” when the input voltage is over 145V.
2. LCD display will “blink” when the input current is over 15A.

### RE-SET KWH AND CLOCK

Power cycle the unit by turning it OFF and then ON again. This will reset the KWH and clock.

### SET OVER CURRENT WARNING LEVEL

This power strip is designed to operate at 20Amps. Changing this Over Current Warning Level value does not allow more than the specified amperage as specified on the product label.

1. Press “SET” button for (3) seconds.
2. Press “FNC” button so the display is either 15A or 30A.
3. Press “SET” button to select the new setting.
4. Press “FNC” button to return to normal operation.

| FUNCTION     | RANGE          | ACCURACY  |
|--------------|----------------|-----------|
| Volts        | 95.0~125 Vrms  | 0.2%      |
| Amps         | 0.00~20.0 Amps | 0.3%      |
| Watts        | 2500 Watt      | 0.5%      |
| VA           | 2500 VA        | 0.5%      |
| Frequency    | 47.0~63.0Hz    | +/- 0.1Hz |
| Power Factor | 0.00~1.00      | 0.01%     |
| KWh          | 0.00~9999      | .5%       |
| KWh hour     | 0.00~9999      | 30ppm     |

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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 three (3) 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.

## **TWO 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 three (3) 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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