

LEGRAND PDX-915R, PDX-920R RACK
MOUNTED POWER DISTRIBUTION UNIT



legrand PDX-915R, PDX-920R Rack Mounted Power Distribution Unit User Manual

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legrand PDX-915R, PDX-920R Rack Mounted Power Distribution Unit



Product Information

Specifications

The Rackmount PDU is part of the NEXSYS Series and comes with surge protection features.

Feature Set

The PDU includes LED protection indicators, surge protection, and voltage protection.

Hardware Features

The PDU is designed for rackmount installation and comes with the necessary mounting hardware.

Physical Specifications

- Dimensions: Vary based on model
- Weight: Varies based on model
- Color: Black

Product Usage Instructions

Installation

1. Read the user manual carefully.
2. Ensure the power outlet is properly grounded before connecting the PDU.
3. Mount the PDU securely in a rack according to the provided instructions.

Operation

Once installed, connect your electronic devices to the PDU for power distribution.

Maintenance









Regularly check the LED protection indicators for any alerts. Keep the PDU clean and free from obstructions.

IMPORTANT SAFETY INSTRUCTIONS

SAVE THESE INSTRUCTIONS – This manual contains important instructions that should be followed during installation and maintenance of the product.

- Only use attachments and accessories specified by the manufacturer.
- Read all instructions before using the product.

Understanding Safety Symbols

	DANGER HAZARDOUS VOLTAGE	The lightning flash with the arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of uninsulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.
	WARNING	A warning alerts you to a situation that could result in serious personal injury or death.
	CAUTION	A caution alerts you to a situation that may result in minor personal injury or damage to the product and/or property.
	NOTE	A note is used to highlight procedures pertaining to the installation, operation, or maintenance of the product.
	REMINDER	A reminder marks information which may be of importance to you for recalling in context and/or later use.
	TIP	A tip helps users apply techniques and procedures for their specific needs. The information suggests alternative methods that may not be obvious and help users understand the benefits and capabilities of the product. A tip is not essential to the basic understanding of the material.
<hr/>		
	DANGER HAZARDOUS VOLTAGE	To reduce the risk of electrical shock, always unplug this device from the electrical outlet before cleaning.
	WARNING	Failure to read, understand and follow the following information can result in serious personal injury, damage to the equipment or voiding of the warranty. It is the responsibility of the Installer/User to ensure that this product is loaded according to specifications.

**WARNING**

Risk of Electric Shock: Connect the device to a properly grounded outlet only. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

**WARNING**

The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.

**WARNING**

To reduce the risk of burns, fire, electric shock, or injury to persons:

- Unplug from outlet before putting on or taking off parts.
- Close supervision is necessary when this device is used by, or near children, invalids, or disabled persons.
- Use this device only for its intended use as described in these instructions. Do not use attachments not recommended by the manufacturer.
- Never operate the device if it has a damaged cord or plug, if it is not working properly, if it has been dropped or damaged, or dropped into water. Return the device to a service center for examination and repair.
- Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- Keep the cord away from heated surfaces.
- Never drop or insert any object into any opening.
- Do not use outdoors.
- Do not operate where aerosol (spray) products are being used or where oxygen is being administered.
- To disconnect, turn all controls to the off position, then remove plug from outlet.

**CAUTION**

All electrical installation must be done according to national and local electrical code.

Safety Instructions: Rack Mount

Elevated Operating Ambient: If installed in a closed-ed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient. Therefore, consideration should be given to installing the equipment in an environment compatible with the maximum ambient temperature (T_{ma}) specified by the manufacturer.

Reduced Air Flow: Installation of the equipment in a rack should be such that the amount of airflow required for safe operation of the equipment is not compromised.

Mechanical Loading: Mounting of the equipment in the rack should be such that a hazardous condition is not achieved due to uneven mechanical loading.

Circuit Overloading: Consideration should be given to the connection of the equipment to the supply circuit and the effect that overloading of the circuit might have on overcurrent protection and supply wiring. Appropriate consideration of equipment nameplate ratings should be used when addressing this concern.

Reliable Earthing: Reliable earthing of rack-mounting equipment should be maintained. Particular attention should be given to supply connections other than direct connections to the branch circuit (e.g. use of power strips). **Disconnect Device (Pluggable Equipment):** The socket outlet shall be installed near the equipment and shall be easily accessible.

When using electrical products, basic precautions should always be followed, including the following:

- Read and follow all instructions before using.
- There are no user-serviceable components within this device. Removal of the cover from this device may present a shock hazard, and void the warranty.

- The mains plug is used as your disconnect device. This device shall remain readily operable.
- Unplug this apparatus during lightning storms or when unused for long periods.
- Do not overload the wall outlet where this device is being connected. Do not overload this device. Ensure the total load to this device does not exceed that which is listed in the specifications section of this manual.
- Ensure this device is connected to a properly grounded AC power source. Ensure the device is plugged into a source providing the required 120V. Do not use a plug adapter that defeats the ground pin of the AC plug.

Regulatory Compliance

	CAUTION	Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
	NOTE	<p>This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:</p> <ul style="list-style-type: none"> • Reorient or relocate the receiving antenna. • Increase the separation between the equipment and receiver. • Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. • Consult the dealer or an experienced radio/TV technician for help.

Federal Communications Commission (FCC) Statement

Industry Canada (IC)

ICES-003 Class B Notice. This Class B digital apparatus complies with Canadian ICES-003.

Industrie Canada (IC)

ICES-003 Avis NMB-003, Classe B. Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Waste Electrical and Electronic Equipment (WEEE) Directive

Correct disposal of this product: This symbol indicates that this product must not be disposed of with household waste, according to the WEEE Directive (2012/19/EU) and your national law. This product should be taken to a collection center licensed for the recycling of waste electrical and electronic equipment (EEE). The mishandling of this type of waste could have a possible negative impact on the environment and human health due to potentially hazardous substances that are generally associated with EEE. At the same time, your cooperation in the correct disposal of this product will contribute to the efficient use of natural resources. For more information about where you can take your waste equipment for recycling, please contact your local city office or your household waste collection service.

Understanding General Symbols and Terms

**NOTE**

A note highlights procedures pertaining to the installation, operation, or maintenance of the product.

**REMINDER**

A reminder marks information which may be of importance to you for recalling in context and later use.

**TIP**

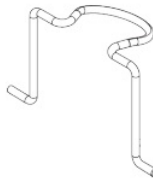
A tip helps users apply techniques and procedures for their specific needs. The information suggests alternative methods that may not be obvious and help users understand the benefits and capabilities of the product. A tip is not essential to the basic understanding of the material.

Supplied Components and Hardware

After carefully opening all product packaging, identify the supplied components and hardware shown. If any pieces are missing or damaged, please report it immediately to Technical Support at av.middleatlantic.techsupport@legrand.com or [866-977-3901](tel:866-977-3901). Keep the original packaging in a safe place for future use.



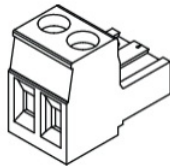
**NEXSYS Series Rackmount
PDU Unit**
(Rack Ears Pre-Installed)



Power Cord Retainer



Power Cord
(NEMA 5-15P or NEMA 5-20P SignalSAFE™
cord provided based on the model purchased.)



(2x)
Terminal Block Plug
(Pre-installed on PDU)



User Manual

Required Tools

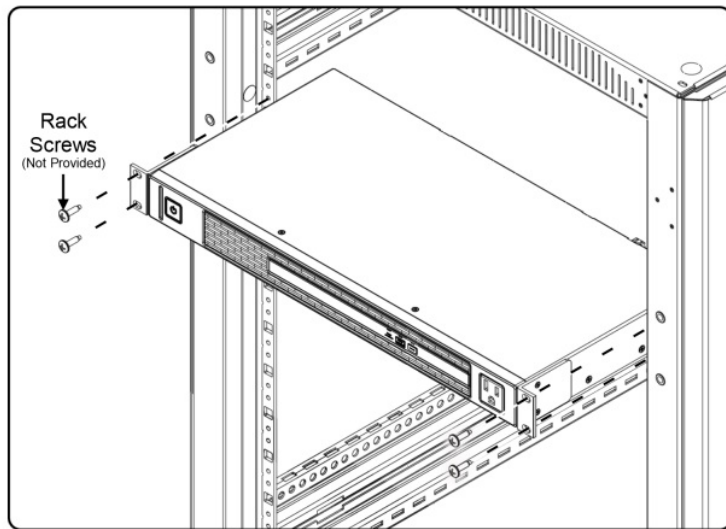
#2 Phillips Screwdriver

Introduction

This User Manual provides information about the installation, setup, and configuration of your NEXSYS Series Rackmount PDU product.

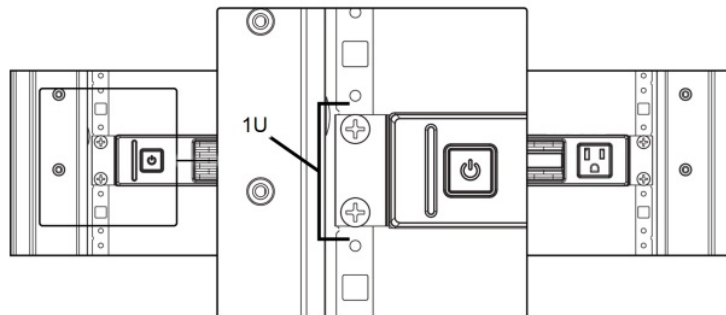
Mounting Your NEXSYS Series Rackmount PDU

1. Use a #2 Phillips screwdriver and (4x) rack screws (not provided) through holes on the pre-installed ears and into the threaded holes on the rackrail to mount your NEXSYS Rackmount PDU as shown.

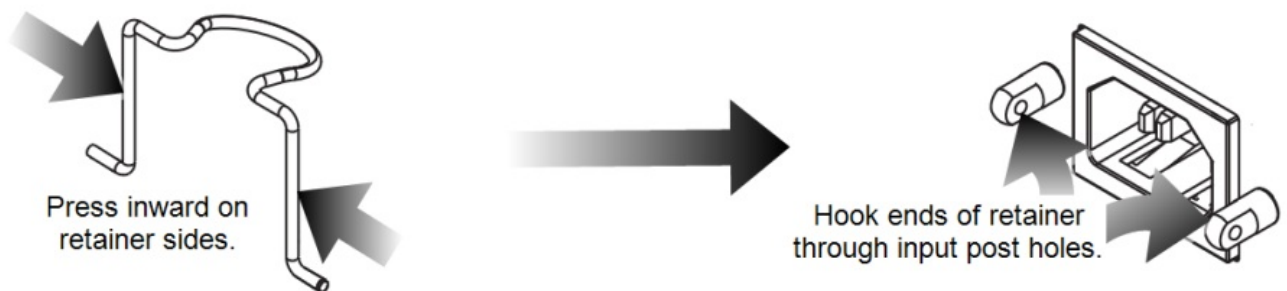


NOTE

The NEXSYS Rackmount PDU unit is 1 RU.

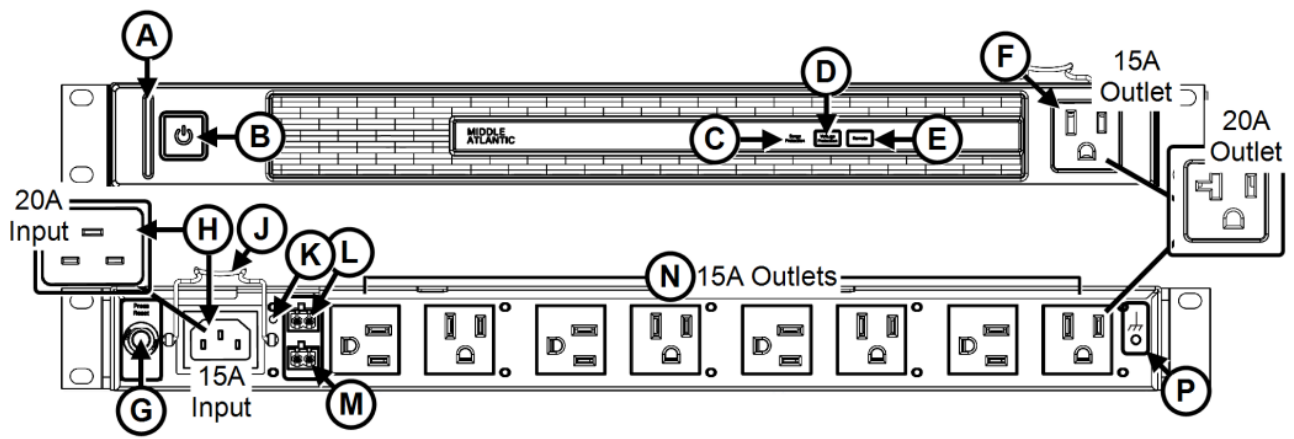


2. Install the power cord retainer (C) by pressing inward on its sides and hooking the ends through the input post holes on the back of the unit as shown.



3. Use the power cord to connect your Rackmount PDU from the AC input into an outlet on an appropriately rated receptacle.

Feature Set



- A. Light Well
White: On, indicating power to the outlets.
Off: Off, no power to the outlets.
- B. Power Button
White: On
Amber: Off
- C. Surge LED Indicator
Surge indicator signals different protection statuses of your PDU. For more information, see LED Protection Indicators, on page 18.
- D. Voltage Protection LED Indicator and Button
Voltage indicator signals different PDU protection statuses. For more information, see LED Protection Indicators, on page 18.
Press to enable or disable voltage protection.
White: Voltage protection enabled.
Off: Voltage protection disabled.
- E. Remote LED Indicator and Button
Press to enable or disable the remote contact control.
White: Remote Enabled
Off: Remote Disabled
- F. Convenience Outlet
- G. Input Circuit Breaker
Located next to the AC input, the input circuit breaker trips when the load exceeds the PDU power rating.
- H. AC Input
- I. EC14 (for 15A) or IEC20 (for 20A) inlet based on the model purchased.
- J. AC Input Retainer Clip
Use clip to secure the power cord into the IEC Inlet.
- K. Indicator Light
Green LED indicates power to the outlets.
- L. Status (Output)

NOTE

Terminal Block plug pre-installed on PDU.

For MOV Models: When contact is open, indicates the surge status is protected. When contact is closed, indicates the surge is compromised and no longer protected.

For Series Protection Models: When contact is open, indicates the unit is powered Off. When the contact is closed, indicates the unit is powered on.

- M. Remote (Input)

NOTE

Terminal Block plug with jumper pre-installed on PDU.

When enabled, outlets may be turned On or Off via contact closure.

When contact is closed, the outlets are turned On.

When contact is opened, the outlets are turned Off.

- N. Outlets

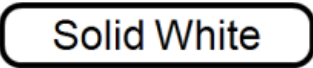


All outlets are controllable by a power button and remote contact.

P. External Grounding and Bonding Stud

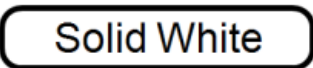
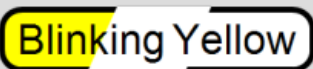

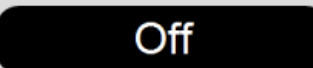
For connecting an external ground wire to bond the chassis.

LED Protection Indicators

Surge Protection

LED State	Description
	Protected. Normal state.
	First stage failed.
	Not protected.

Voltage Protection

LED State	Description
	Voltage protection enabled.
	Under voltage.
	Over voltage.
	Voltage protection is off.

Specifications

Specifications for MOV Surge Models

Summary

Model	PDX-915R	PDX-920R
Nominal Voltage	120VAC	
Voltage Range	Minimum: 80VAC, Maximum: 140VAC	
Frequency	60 Hz	
Maximum Peak Load	15A	20A
Rated Load	12A	16A
Number of Outlets	9	
Outlet Type	NEMA 5-15R	NEMA 5-20R
Overload Protection	Circuit Breaker	
Outlet Control	Contact Closure	
No Load Power Dissipation	< 1W	
Input Power Cord	SignalSAFE IEC to 5-15P, 10' (3M)	SignalSAFE IEC to 5-20P, 10' (3M)
Certifications	UL 62368, UL 1449, FCC Class B, ICES 7	

Hardware Features

Model	PDX-915R and PDX-920R
Surge Protection	Multi-Stage MOV
Peak Impulse Current (8/20µS Waveform)	45,000 Amps, one time – Maximum peak impulse current pulse as defined between line and neutral. 19,500 Amps, two times within 5 minutes – Maximum multiple impulse current derated per spec.
Protection Mode	Line to Neutral only; no ground contamination.

Model	PDX-915R and PDX-920R
Response Time	Less than 1 nanosecond.
Surge Energy Dissipation	705 Joules (10/100µS)
Voltage Protection Rating	500V (L-N); Type 3 SPD
EMI/RF Suppression	>20dB Calculated Line to Neutral – 100kHz to 1Mhz – based on nominal impedance.
Overvoltage Threshold	Upper Limit Cutoff: 135V RMS Upper Limit Restore: 126V RMS
Undervoltage Threshold	Lower Limit Cutoff: 100V RMS Lower Limit Restore: 105V RMS

Physical

Model	PDX-915R	PDX-920R
Dimensions (Width x Height x Depth)	19" (483mm) x 1.735" (44mm) x 8.75" (222mm)	
Product Weight	6.84 lbs (3.1 kg)	
Shipping Weight	9.92 lb (4.5 kg)	10.58 lb (4.8 kg)

Warranty

Model	PDX-915R and PDX-920R
Power Distribution	Three Years Limited For warranty information, refer to www.legrandav.com/policies/warranty_information .

Specifications for Series Surge Protection Models

Summary

Model	PDX-915R-SP	PDX-920R-SP
Nominal Voltage	120VAC	
Voltage Range	Minimum: 80VAC, Maximum: 140VAC	
Frequency	60 Hz	
Maximum Peak Load	15A	20A
Rated Load	12A	16A
Number of Outlets	9	
Outlet Type	NEMA 5-15R	NEMA 5-20R
Overload Protection	Circuit Breaker	
Outlet Control	Contact Closure	

Model	PDX-915R-SP	PDX-920R-SP
No Load Power Dissipation	<1W	
Input Power Cord	SignalSAFE IEC to 5-15P, 10' (3M)	SignalSAFE IEC to 5-20P, 10' (3M)
Certifications	UL 62368, UL 1283, UL 1449, FCC Class B, ICES 7	

Hardware Features

Model	PDX-915R-SP	PDX-920R-SP
Surge Protection	Series	
Voltage Protection Rating	330V (L-N); Type 3 SPD	
Maximum Applied Surge Voltage	6000 Volts (1.2 x 50µS Pulse, Industry Standard Combination Wave Per IEEE C62.41)	
Maximum Applied Surge Current	Unlimited (Due to Inherent Current Limiting)	
Maximum Applied Surge Energy	Unlimited (Due to Inherent Current Limiting)	
EMI Filter, Differential Mode	40dB@100kHz	50dB@100kHz
50Ω Load	50dB@3MHz	50dB@30MHz
EMI Filter, Common Mode	18dB@100kHz	30dB@100kHz
50Ω Load	50dB@3MHz	50dB@30MHz
Overvoltage Threshold	Upper Limit Cutoff: 135V RMS Upper Limit Restore: 126V RMS	
Undervoltage Threshold	Lower Limit Cutoff: 100V RMS Lower Limit Restore: 105V RMS	

Physical

Model	PDX-915R-SP	PDX-920R-SP
Dimensions (Width x Height x Depth)	19" (483mm) x 1.735" (44mm) x 8.75" (222mm)	
Product Weight	8.6 lb. (3.9 kg)	
Shipping Weight	11.47 lb. (5.2 kg)	12.35 lb. (5.6 kg)

Warranty

Model	PDX-915R-SP and PDX-920R-SP
Series Surge Module	<p>Twelve Years Limited</p> <p>For warranty information, refer to www.legrandav.com/policies/warranty_information.</p>

Warranty

For warranty information, refer to www.legrandav.com/policies/warranty_information.

Contacting Corporate Headquarters

P: [866-977-3901](tel:866-977-3901) | F: [877-894-6918](tel:877-894-6918) | www.legrandav.com | av.middleatlantic.techsupport@legrand.com

Contacting Middle Atlantic Canada

P: [888-766-9770](tel:888-766-9770) | F: [888-599-5009](tel:888-599-5009) | www.legrandav.com | av.canada.customerservice@legrand.com

United States (US) Legrand | AV Headquarters 6436 City West Parkway Eden Prairie, MN, 55344, USA

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All patents are protected under existing designations. Other patents pending.

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FAQ




Q: What should I do if the LED protection indicators show an alert?

A: If any LED protection indicator lights up, immediately disconnect the connected devices and contact customer support for assistance.

Q: Can I mount the PDU in any orientation?

A: The PDU is designed for rackmount installation and should be mounted following the provided instructions to ensure proper functionality.

Documents / Resources

  	legrand PDX-915R, PDX-920R Rack Mounted Power Distribution Unit [pdf] User Manual 100-00060, PDX-915R PDX-920R Rack Mounted Power Distribution Unit, PDX-915R PDX-920R, Rack Mounted Power Distribution Unit, Mounted Power Distribution Unit, Power Distribution Unit, Distribution Unit, Unit
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References

- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

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