

PN7212/PN7320 Power Distribution Unit (PDU) Quick Start Guide

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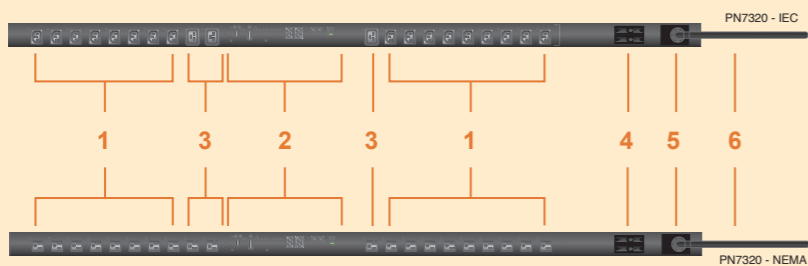
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1 Package Contents

The PN7212/PN7320 package consists of:

- | | |
|--|---------------------|
| 1 PN7212 or PN7320 Power Distribution Unit | 1 User Instructions |
| 4 Serial Adapters: | 1 Software CD |
| 1 SA0142 (RJ45F to DB9M) | |
| 1 SA0149 (RJ45F to DB9F) | |
| 1 SA0150 (RJ45F to DB9M) | |
| 1 SA0151 (RJ45F to DB9F) | |
| 2 Rack Mount Kits | |

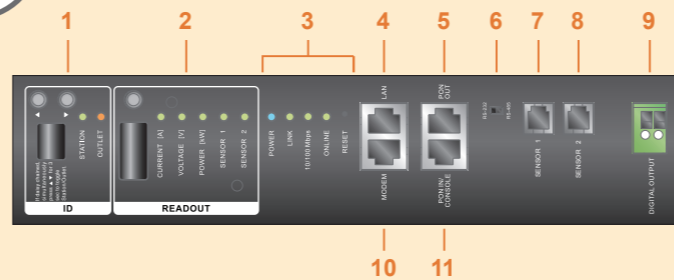
2 Hardware Review (Front View)



- | | |
|-----------------------|-----------------------------------|
| 1. Power Sockets | 4. Circuit Breakers (PN7320 only) |
| 2. Port and LED Panel | 5. Grounding Terminal |
| 3. Power Sockets | 6. Power Cord |

Note: The Front View diagram depicts a PN7320. The PN7212 is basically the same, except there are only 12 AC power sockets (6 on each side of the Port and LED panel), and all the sockets are NEMA 5-15R or IEC320 C13. There are no NEMA 5-20R or IEC320 C19 sockets

3 Hardware Review (Port and LED Panel)



- | | |
|---------------------------------|---------------------------|
| 1. Station / Outlet Selection | 7. Sensor 1 |
| 2. Readout Section | 8. Sensor 2 |
| 3. Status LEDs and Reset Switch | 9. Digital Output |
| 4. LAN Port | 10. Modem Port |
| 5. PON Out Port | 11. PON In / Console Port |
| 6. RS-232/RS-485 Switch | |

4 Requirements

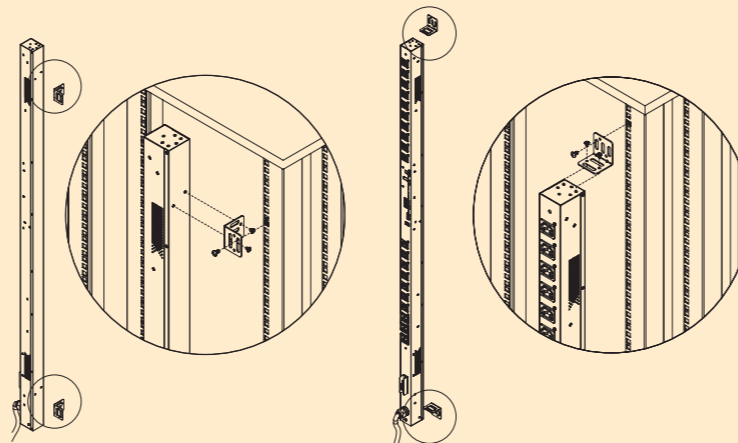
- Browsers accessing the PN7212 / PN7320 must support SSL 128 bit encryption.
- For cold booting of attached computers, the computer's BIOS must support Wake on LAN or System after AC Back.
- For Safe Shutdown:
- The computer must be running Windows (Windows 2000 or higher), or Linux.
- The Safe Shutdown program (available by download from our website), must be installed and running on the computer

5-1 Hardware Installation

Rack Mounting

The PN7212 / PN7320 can be installed in a 0U configuration on the side of a rack. To rack mount the device, use the rack mounting brackets that came with your device.

1. The brackets can be mounted either on the back panel, or the top and bottom of the device.



5-2 Hardware Installation

2. L bracket, mounting style 1



3. L bracket, mounting style 2



4. Z bracket, mounting style 1, front and rear view.



5. Z bracket, mounting style 2



Single Stage Installation

In a Single Stage installation, there are no additional PN7212 / PN7320 Stations daisy chained down from the first unit. To set up a single stage installation, refer to the installation diagram (the numbers in the diagram correspond to the numbered steps), and do the following

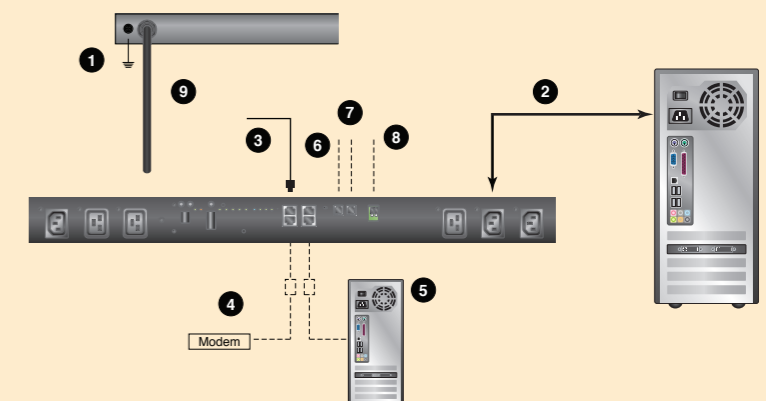
1. Use a grounding wire to ground the PN7212 / PN7320 by connecting one end of the wire to its grounding terminal, and the other end of the wire to a suitable grounded object.
Note: Do not omit this step. Proper grounding helps to prevent damage to the unit from surges or static electricity.
2. For each device you want to connect, use its power cable to connect from the device's AC socket to any available outlet on the PN7212 / PN7320.
3. Plug the cable that connects the PN7212 / PN7320 to the LAN into the PN7212 / PN7320's LAN port.
4. (Optional) If you wish to connect a modem, use Cat 5e cable to connect the PN7212 / PN7320's Modem port to the SA0142 (DCE) adapter supplied with your package. Connect the adapter's serial connector to the modem's DB-9 port.
5. (Optional) If you wish to use a console terminal connection, use Cat 5e cable to connect the PN7212 / PN7320's PON IN/Console port to the SA0151(DTE) adapter supplied with your package. Connect the adapter's serial connector to the COM port of the computer you will use for the console terminal.
6. (Optional) If you wish to connect a temperature or humidity sensor, its RJ-11 connector plugs in here.
7. (Optional) If you wish to connect a temperature or humidity sensor, its RJ-11 connector plugs in here.
8. (Optional) If you wish to connect a digital output device, wire it to this two-pin terminal.
9. Connect the PN7212 / PN7320's power cord to an AC power source.

Note: 1. We strongly advise that you do not plug the PN7212 / PN7320 into a multi socket extension cord, since it may not receive enough amperage to operate correctly.

2. Circuit breakers are not provided on the PN7212. Therefore, we strongly recommend that you do not plug the unit directly into any unprotected power source (such as a wall outlet).

Once you have finished these installation steps, you can turn on the PN7212 / PN7320 and the connected devices.

Note: We strongly recommend using cable ties and cable bars to safely and securely route the cables attached to the back of the unit.

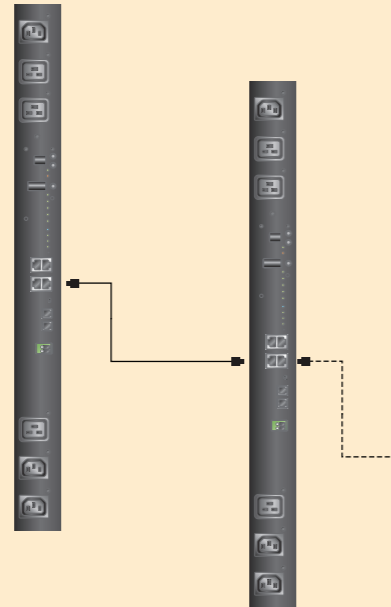


5-3 Hardware Installation

Daisy Chaining

To manage even more outlets from the same single session as a standalone PN7212 / PN7320, additional Power Over the NET™ devices can be daisy chained, as described in the following three configurations

Note: The maximum distance between any two Power Over the NET™ devices must not exceed 15 m; the total distance from the first station to the last must not exceed 100 m.



6-1 Operation

Super Administrator Setup

First Time Setup

Once the PN7212 / PN7320 installation has been cabled up, the next tasks the Administrator needs to perform involve configuring the network parameters, changing the default Super Administrator login settings, and adding users.

The easiest way to accomplish this is to log in over the Net with a browser.

Browser Login

The PN7212 / PN7320 can be accessed via a supported Internet browser from any platform.

Note: Browsers must support SSL 128 bit encryption.

To access the PN7212 / PN7320 do the following:

1. Open your browser and specify the IP address of the PN7212 / PN7320 you want to access in the browser's URL location bar.

If you don't know the IP address, get it from the PN7212 / PN7320 administrator. If you are the administrator and are logging in for the first time, use the default IP address of 192.168.0.60.

Note: You must be on the same network segment as the PN7212 / PN7320 to use the default IP address.

2. If a Security Alert dialog box appears, accept the certificate it can be trusted. The Login page appears:

3. Provide a valid Username and Password (set by the PN7212 / PN7320 administrator), then click Login to bring up the browser Main Page.

If you are the administrator and are logging in for the first time, use the default Username: **administrator**; and the default Password: **password**.

Note: For security purposes we recommend changing them to something unique.

6-2 Operation

Device Name	Serial 1	Serial 2	Voltage	Current	Power	Power Disruption
PN7212	N/A	N/A	112 V	0.18 A	0 W	0.00 s/min

Network Configuration

To set up the network, do the following:

1. Click the **Device Management** tab.
2. Select **Network** on the menu bar. A screen similar to the one below appears:

Changing the Administrator Login

To change the default Super Administrator username and password, do the following:

1. Click the **User Management** tab.
2. Click **administrator** in the Sidebar.
3. Change the Username and Password to something unique.
4. Re-enter the password to confirm it is correct.
5. Click **Save**.
6. When the dialog box informing you that the change completed successfully appears, Click **OK**.

7 Specifications

Function		PN7212	PN7320
Power Outlets	Direct	12	20
	Max	192 (via Daisy Chain)	320 (via Daisy Chain)
Connectors	Power Inlets	NEMA (UL/PSE)	1 x NEMA L5-20P
		IEC	1 x IEC 60309
	Power Outlets	NEMA (UL/PSE)	12 x NEMA 5-15R
		IEC	12 x IEC320 C13
	PON In / Console		1 x RJ-45 (Female)
	PON Out		1 x RJ-45 (Female)
Modem		1 x RJ-45 (Female)	
LAN		1 x RJ-45 (Female)	
Environment Sensor		2 x RJ-11 (Female)	
Digital Output		1 x Terminal Block	
LEDs	ID	1 x 2-digit 7-segment	
	Station	1 x Green	
	Outlet	1 x Green	
	Readout	1 x 3-digit 7-segment	
	Current	1 x Green	
	Voltage	1 x Green	
	Power	1 x Green	
	Sensor 1	1 x Green	
Sensor 2	1 x Green		
I/P Rating (Total Input)	NEMA (UL)	100-120V; 50/60Hz; 16A	100-120V; 50/60Hz; 24A
	NEMA (PSE)	100-120V; 50/60Hz; 16A	100-120V; 50/60Hz; 24A
	IEC	200-240V; 50/60Hz; 16A	200-240V; 50/60Hz; 32A
Load Capacity	NEMA (UL)	120V; 50/60Hz; 1920W	120V; 50/60Hz; 2880W
	NEMA (PSE)	120V; 50/60Hz; 1920W	120V; 50/60Hz; 2880W
	IEC	230V; 50/60Hz; 3680W	230V; 50/60Hz; 7360W
O/P Rating	Per Port	NEMA (UL)	100-120V; 50/60Hz; 12A
		NEMA (PSE)	100-120V; 50/60Hz; 12A
		IEC	200-240V; 50/60Hz; 10A
	Total	NEMA (UL)	100-120V; 50/60Hz; 15A
		NEMA (PSE)	100-120V; 50/60Hz; 15A
		IEC	200-240V; 50/60Hz; 15A
Power Consumption	NEMA (UL/PSE)	120V; 50/60Hz; 16W	
	IEC	230V; 50/60Hz; 18W	
		120V; 50/60Hz; 22W	
Environment	Operating Temp.	0 ~ 50°C	
	Storage Temp.	-20 ~ 60°C	
	Humidity	0 ~ 80% RH Non-condensing	
Physical Properties	Housing	Metal	
	Weight	4.49 kg	5.68 kg
	Dimensions (L x W x H)	6.42 x 5.46 x 134cm	6.42 x 5.46 x 167.64cm