

INSIDE THIS GUIDE

• **WHAT IS CLAMPING VOLTAGE AND WHY IS IT IMPORTANT?**

See page 20.

• **WHAT DO I DO WITH ALL THESE WALL WARTS?**

See the wall wart killer on page 6.

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ETA: Pro Power Distribution

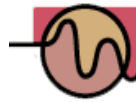
Over 30 years ago, ETA began in the business of developing high amperage theatrical lighting systems. From that knowledge base evolved an extensive line of rack mounted professional power distribution products designed to protect delicate and sensitive electronic equipment. If your investment in equipment is significant, you need something better than a power strip. You need quality power distribution. This guide was designed to help you select the right AC power distribution for your requirements.

Why Buy ETA P.D.?

All ETA Power Distribution products protect against the potentially damaging spikes and surges that occur on all three of the incoming AC power lines. Interference caused by radio frequency transmissions (RFI) is filtered out. Hums and buzzes caused by other devices sharing an electrical circuit (Electro-Mechanical Interference) are routinely eliminated. In addition, most ETA models are ETL or UL, assuring product safety.



spikes



surges



emi



rfi



ground loops

ETA offers the most options:

- Lights to illuminate your work environment. (ETA versions with lights feature easy to replace bulbs.)
- Accommodation for multiple wall warts.
- Digital Volt Meters allowing accurate line voltage assessment before power is exposed to delicate gear.
- AC line regulator that will automatically adjust varying line voltage to a safe range.
- Sequencing circuits to avoid blowing breakers in the “on-rush” mode & protect speakers.
- Remote accessibility.

ETA power products are more than simple distribution to your many system devices. ETA qual-

Why Sell Power Distribution?

ETA quality power products perform several functions beyond simple distribution, so your equipment is not exposed to the potentially problematic electricity from the wall.

What problems am I likely to encounter?

AC power is, by its nature, unpredictable. It can vary in the amount of power delivered to your equipment in short bursts called **spikes and surges**. These spikes and surges can cause damage to your equipment or at the very least, cause your equipment to perform erratically and reduce the life. **THESE AC PROBLEMS CAN BE ELIMINATED WITH PROPER SPIKE AND SURGE PROTECTION**, provided in all ETA products.

How can I be sure that I have a consistent, clean power source?

AC power can also vary in the amount of power delivered over a longer period of time. Most of your components do not perform properly outside of a range of line voltage from 100 volts to 125 volts. It is always wise to know what the line voltage conditions are before you plug your valuable devices in. Having a precise line voltage monitor allows you to see how much voltage is coming from the wall prior to exposing your equipment to it. The ETA PRO series power distribution models with a "V" in the model number include a digital voltmeter that allow you to see what the line voltage is. When you see that it is within safe limits, switch on the ETA PD. Protection from long-term line **voltage variances** resulting in brown outs and over voltages is accomplished through AC line voltage regulation. ETA's PD10VRS model will stabilize voltage to 117V and at full 15 AMPs of capacity, even with incoming voltage as low as 85 or up to 150 volts. DSP processors and control systems function better when regulated.

What about noise on my AC lines getting into my equipment?

Noise can be induced into your musical creations through your AC power lines. Electro-Mechanical Interference (EMI) occurs when another device on the same electrical circuit causes noise. Appliances are frequent offenders. Just when you can least afford it, a buzz or hum suddenly occurs. All ETA PDs have excellent EMI filtering. Noise can also be induced through Radio Frequency Interference (RFI). Rheostat lighting dimmers and lighting fixtures can cause untimely hums, buzzes and clicks. All ETA PDs have excellent RFI filtering.

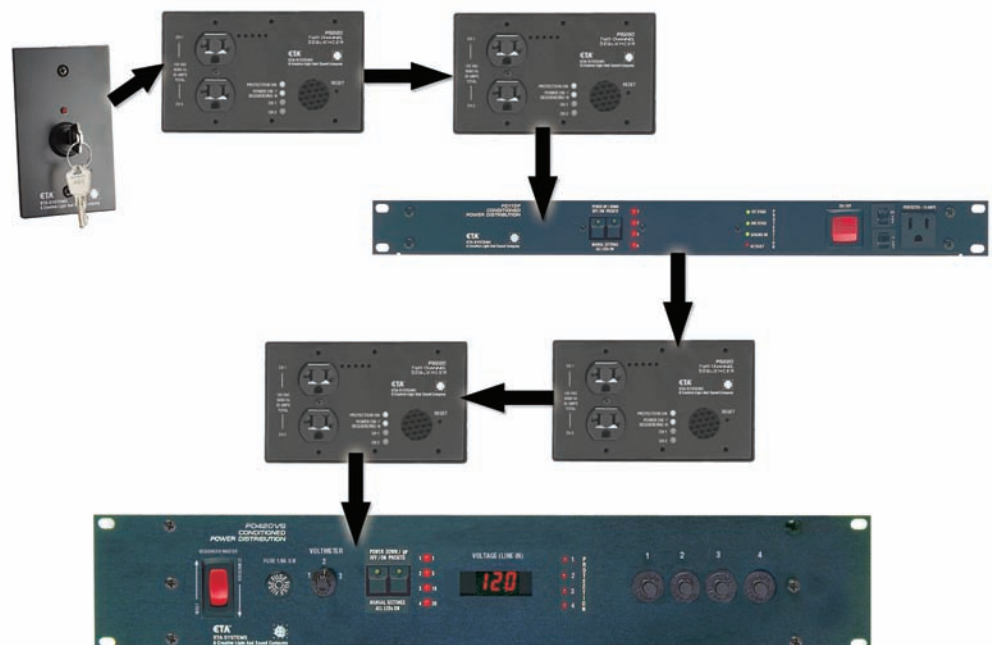
What if I'm right on the edge of using all of the available power from my wall outlet?

Some of us are truly at the edge of the electrical circuits capacity, which can blow circuit breakers when we turn on the equipment. That turn-on point is when components consume the maximum amount of power. This effect can be avoided by separating the gear going to one circuit into sub groups of equipment. ETA **power sequencing** (PD11SP, PD11SS, PD11SSP, PD11LVSP, PS220 and PD10VRS models) will turn on one group then delay the turn-on of the second and third groups. This also allows for power amps to be turned-on after prior components to avoid turn-on transients being amplified.

However the power problems place unpredictable demands on your system, ETA has the best solutions to insure you against damage. After someone has made a investment in expensive equipment, it makes sense to protect it with reliable professional conditioners and regulators.

What is Total System Control?

Get control of your power with ETA's remote controlled system. This daisy-chained remote power system allows you to power up/down a large system from a single key-controlled switch. Automate the power in your system to prevent power sags. Don't worry about blowing-out speakers because the mixer was turned on/off after the amplifiers. Add wall and rack units to the "network" and operate care free. The systems connects with 2 or 3 conductor cable and has a max. run of 1000'.



ETA Power Distribution At-A-Glance

* = Top Seller

Standard Series (15 Amp)



* **PD8** Retail \$87.00

8 Outlet Power Distribution

- Spike and surge protection
- 15 AMP, 1800 Watt capacity
- Overload protection
- UL Listed



* **PD8L** Retail \$109.00

8 Outlet Power Distribution

- Retractable lights
- Spike and surge protection
- 15 AMP, 1800 Watt capacity
- Overload protection
- UL Listed



Retail \$170.00

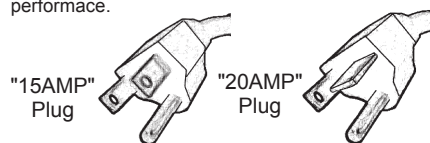
PD9L

9 Outlet Power Distribution

- 7 wall-wart spaced outlets on back + 1 on front
- Spike and surge protection
- 15 AMP, 1800 Watt capacity
- Retractable lights
- UL recognized

Which do I choose?

The "Pro" Series comes standard with 20AMP plugs to meet ETL listing requirements. If you would prefer a "15AMP" plug, you can order a "PJ" version which is non-ETL. Units retain 20AMP performance.



"15AMP" Plug

"20AMP" Plug



Retail \$429.00

* PD11SS

11 Outlet Power Sequencer

- 10 outlets on back, 1 on the front
- 15 AMP, 1800 Watt capacity
- Four-stage power sequencing
- ETL Listed



Retail \$265.00

PD11LV

11 Outlet Power Distribution

- 10 outlets on back, 2 always on, 1 on the front
- Spike and surge protection
- 15 AMP, 1800 Watt capacity
- Bar-LED volt meter
- ETL Listed

Professional Series (20 Amp)



PD11P Retail \$242.00

11 Outlet Power Distribution

- 10 outlets on back, 2 always on, 1 on the front
- 20 AMP, 2400 Watt capacity
- ETL listed



* **PD11LP** Retail \$275.00

11 Outlet Power Distribution

- 10 outlets on back, 2 always on, 1 on the front
- Retractable lights
- 20 AMP, 2400 Watt capacity
- ETL listed



Retail \$365.00

PD11VP

11 Outlet Distribution + Voltmeter

- 10 outlets on back, 2 always on, 1 on the front
- 20 AMP, 2400 Watt capacity
- ETL listed

PD11LVP * Retail \$418.00
"Add Lights"



Sequenced Power

Retail \$415.00



PS220

2 Outlet Power Sequencer

- 2 U-grounded AC outlets
- 20 total amps
- spike and surge protection, sequencing and channel status
- Form 3-gang box



* **PD11SP** Retail \$539.00

9 Outlet Power Sequencer

- 8 outlets on back, 1 on the front
- 20 AMP, 2400 Watt capacity
- Four-stage power sequencing
- Linking capability
- ETL Listed
- PD11SSP also available (non-linking)

Special Application Series



Retail \$825.00

PD66

- 140 Amp High Power Distribution
- 2 30-Amp Circuits w/knock out access
- 4 20-Amp circuits on duplex receptacles



Retail \$715.00

PD11LVSP

11 Outlet Power Sequencer

- PD11SP plus:
- Retractable lights
- Digital volt meter
- ETL Listed



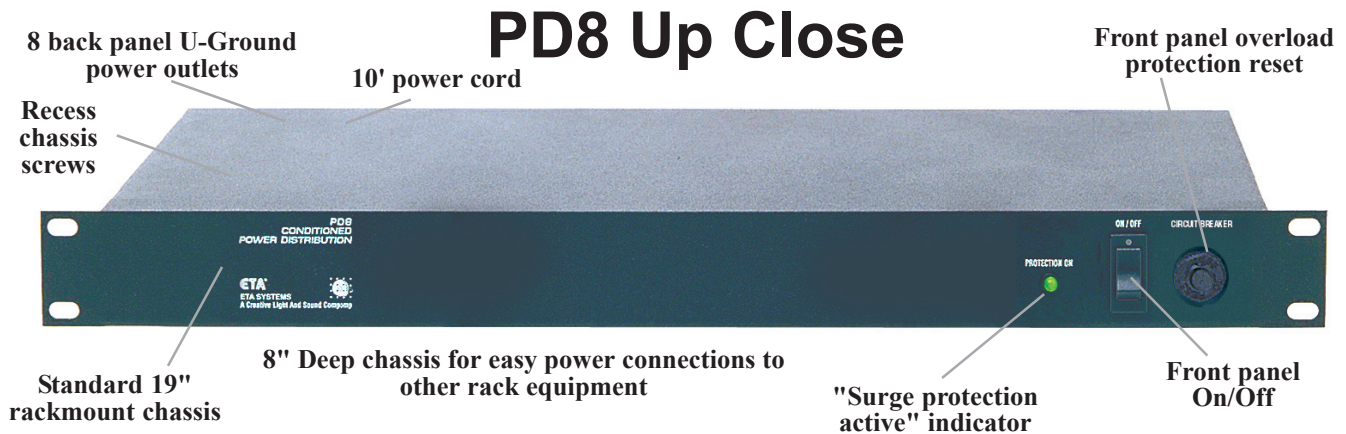
Retail \$1210.00

PD420VS

16 Outlet Power Sequencer

- Three-stage power sequencing
- 60 AMP, 7200 Watt capacity
- Digital volt meter
- ETL Listed
- Linking capability

Note: Prices and specifications are subject to change without notice



Guide to selling the ETA PD8

- **Good depth.** The unit reaches back further in the rack making it easier to connect items
- **Longer cord.** By request, the cord was extended to 10 feet
- **Recess chassis screws.** The top and bottom chassis cover screws are now recessed to prevent them from scratching other equipment.
- **Excellent EMI/RFI filtration** = better performance
- **Heavy construction.** New chassis design meets "touring" grade quality.
- **Advanced Protection.** 3-way protection on all 3 legs of incoming power
- **UL 1449 Listed**
- **Watchdog protection circuitry.** Comprehensive protection that detects and suppresses spikes between positive and negative, positive and ground, and negative and ground. **Also provides audible alarm when protection Watchdog status is out.**
- **Low clamping voltage.** Compresses a 6,000V spike to a manageable 400V. For the techs this is known as a UL1449 rating of 400V.
- **High power filtering.** Most units like this will work to 10 or 12 AMPS but this unit works to 15 AMPS (that's 1,800 WATTS of capacity.)
- **Noise filtering.** Up to 35 dB reduction in line noise in the RF spectrum (100KHz to 100MHz spectrum).

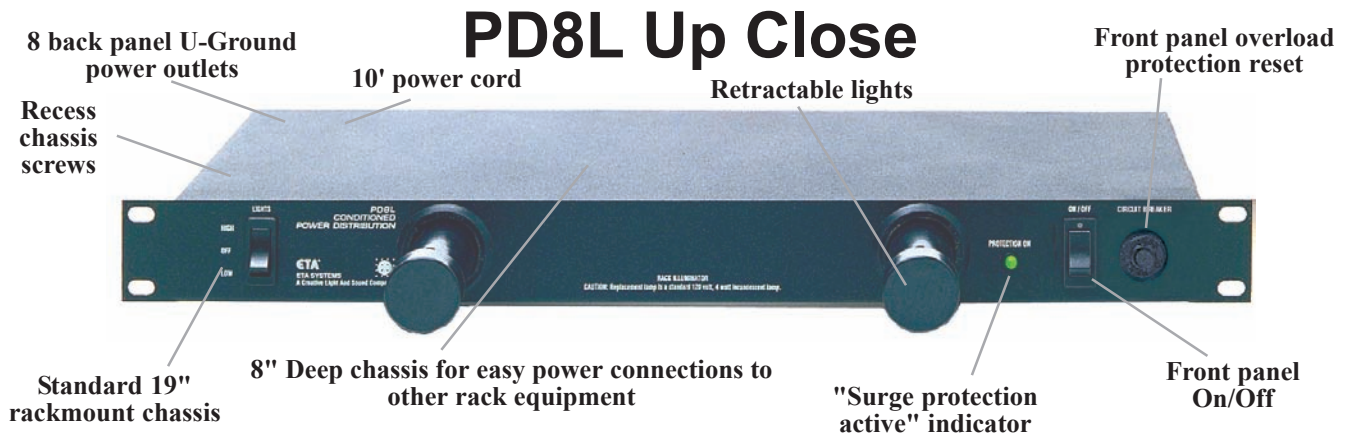
QUICK FEATURES

- 8 Protected outlets on the back
- Spike and surge protection
- 15 AMP, 1800 Watt capacity
- UL 1449 Listed
- **3 Year Warranty**

APPLICATIONS

- Signal processing racks
- DJs, bands
- AV Racks
- Home theater

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Guide to selling the ETA PD8L

- **Good depth.** The unit reaches back further in the rack making it easier to connect items
- **Longer cord.** By request, the cord was extended to 10 feet
- **Recess chassis screws.** The top and bottom chassis cover screws are now recessed to prevent them from scratching other equipment.
- **Excellent EMI/RFI filtration** = better performance
- **Heavy construction.** New chassis design meets "touring" grade quality.
- **Advanced Protection.** 3-way protection on all 3 legs of incoming power
- **UL 1449 Listed**
- **Retractable Lights.** With sturdy metal housing tubes
- **Watchdog protection circuitry.** Comprehensive protection that detects and suppresses spikes between positive and negative, positive and ground, and negative and ground. **Also provides audible alarm when protection Watchdog status is out.**
- **Low clamping voltage.** Compresses a 6,000V spike to a manageable 400V. For the techs this is known as a UL1449 rating of 400V.
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QUICK FEATURES

- 8 Protected outlets on the back
- Retractable lights
- Spike and surge protection
- 15 AMP, 1800 Watt capacity
- UL 1449 Listed
- **3 Year Warranty**

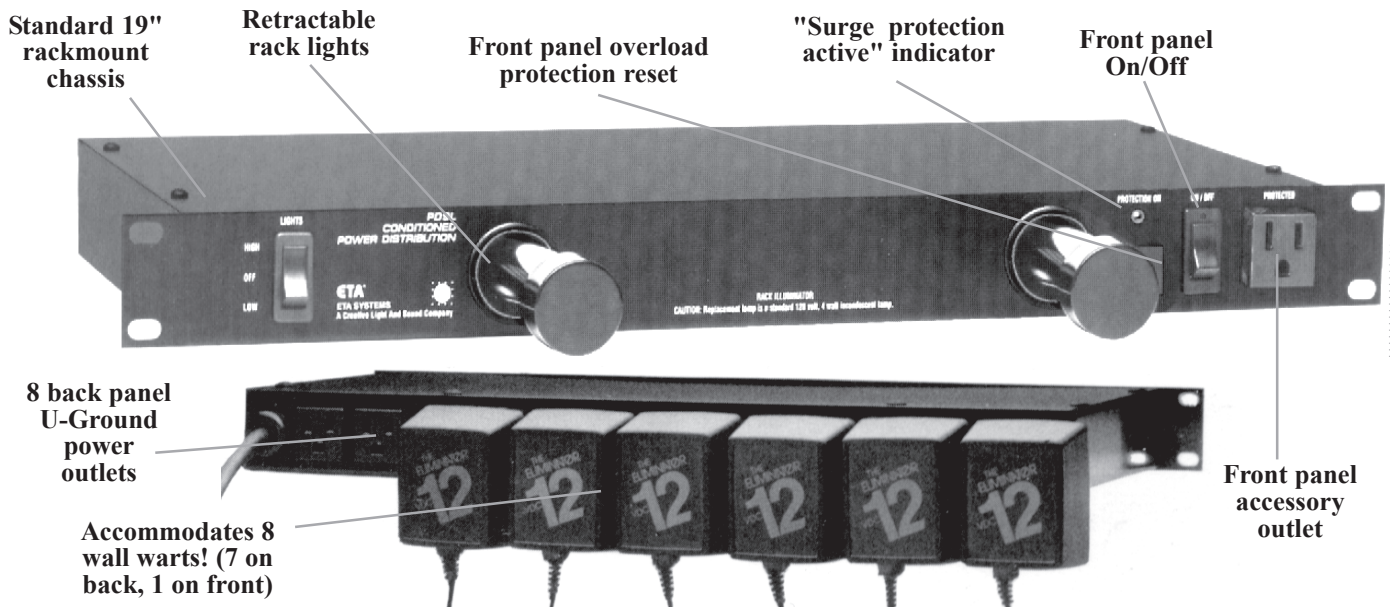
APPLICATIONS

- Signal processing racks
- DJs, bands
- AV Racks
- Home theater

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PD9L Up Close



Guide to selling the ETA PD9L

- **Vertical, spaced outlets designed to accommodate AC adaptors.** Since many of today's products use AC adaptors, ETA is the **ONLY** solution!!!
- **Incoming 3-way spike protection.** Comprehensive protection that detects and suppresses spikes between positive and negative, positive and ground, and negative and ground.
- **Retractable lights.** Sturdy racklights that feature a quick change bulb design.
- **Low clamping voltage.** Compresses a 6,000V spike to a manageable 400V. For the techs this is known as a UL1449 rating of 400V.
- **High power filtering.** Most units like this will work to 10 or 12 AMPS but this unit works to 15 AMPS (that's 1,800 WATTS of capacity.)
- **Noise filtering.** Up to 20 dB reduction in line noise in the RF spectrum (1.5MHz to 200MHz spectrum).
- **UL listed.** Underwriters Laboratory approved voltage converters.

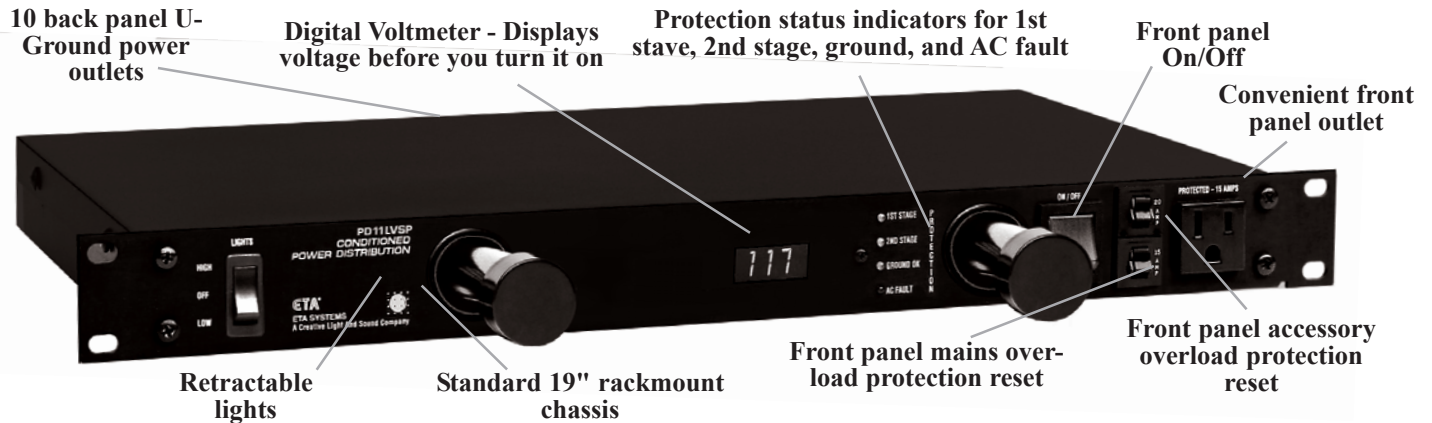
QUICK FEATURES

- 8 Protected outlets on the back, 1 on the front
- Accommodates 8 wall warts!
- Retractable lights
- Spike and surge protection
- 15 AMP, 1800 Watt capacity
- UL listed
- **3 Year Warranty**



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PD11LV Up Close



Guide to selling the ETA PD11LV

- **Plenty of outlets.** Total of 11 protected 20-amp outlets: 10 on the back, (8 protected, 2 un-switched/always on), and one 15-amp on the front for accessories.
- **Retractable lights.** Sturdy racklights that feature a quick change bulb design.
- **Digital Voltage Meter.** Easy to see from a distance. Displays the source voltage in numerical value. Meter always on so you can determine the voltage before you turn your equipment on with the main power switch.
- **Incoming 3-way spike protection.** Comprehensive protection that detects and suppresses spikes between positive and negative, positive and ground, and negative and ground.
- **Low clamping voltage.** Compresses a 6,000V spike to a manageable 400V. For the techs this is known as a UL1449 rating of 400V.
- **Noise filtering.** Up to 20 dB reduction in line noise in the RF spectrum (1.5MHz to 200MHz spectrum).
- **ETL listed.** Meets standard electrical safety codes and has been tested to UL 1449.

QUICK FEATURES

- 10 outlets on back, 2 always on, 1 on the front
- Retractable racklights
- Digital voltmeter
- Spike and surge protection
- 15 AMP, 1800 Watt capacity
- ETL listed
- **3 Year Warranty**

APPLICATIONS

- House of Worship systems
- School sound systems



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PD11SS Up Close



Guide to selling the ETA PD11SS

- **Plenty of outlets.** Total of 11 protected outlets: 10 on the back (two un-switched, eight on sequence) and 1 on the front for accessories.
- **Four-Stage Sequencing.** Auto or remote sequential power up/down. This is ideal for powering up complete systems that should be turned on/off in a particular sequence to protect all components.
- **Remote Control Capability.** The PD11SS can be remotely activated in power-up or power-down sequence with any dry-contact closure.
- **Incoming 3-way spike protection.** Comprehensive protection that detects and suppresses spikes between positive and negative, positive and ground, and negative and ground.
- **Low clamping voltage.** Compresses a 6,000V spike to a manageable 400V. For the techs this is known as a UL1449 rating of 400V.
- **High power filtering.** Most units like this will work to 10 or 12 AMPS but this unit works to 15 AMPS (that's 1,800 WATTS of capacity.)
- **Noise filtering.** Up to 20 dB reduction in line noise in the RF spectrum (1.5MHz to 200MHz spectrum).
- **ETL listed.** Meets standard electrical safety codes.

QUICK FEATURES

- 10 outlets on back and 1 on the front
- Four-stage sequential power-up
- Spike and surge protection
- 15 AMP, 1800 Watt capacity
- ETL listed
- **3 Year Warranty**

APPLICATIONS

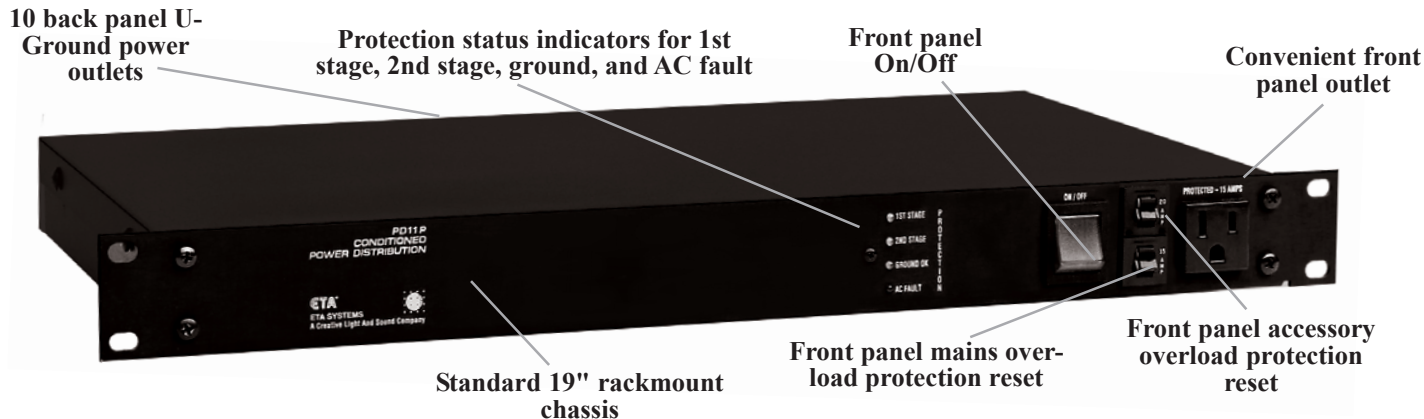
- Installations
- Theatres
- Sound reinforcement
- Boardrooms



Improved connector for remote

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PD11P Up Close



Guide to selling the ETA PD11P

- **Plenty of outlets.** Total of 11 protected 20-amp outlets: 10 on the back (8 switched, 2 un-switched/always on) and one 15-amp on the front for accessories.
- **2-Stage Protection.** Comprehensive protection that detects and suppresses spikes incoming and outgoing power legs.
- **Multiple State spike/surge protection.** Incorporating non-sacrificial devices
- **Low clamping voltage.** Compresses a 6,000V spike to a manageable 400V. For the techs this is known as a UL1449 rating of 400V.
- **High power filtering.** Professional grade for 20 AMPS (that's 2,400 WATTS of capacity.)
- **Noise filtering.** Up to 20 dB reduction in line noise in the RF spectrum (1.5MHz to 200MHz spectrum).
- **ETL listed.** Meets standard electrical safety codes and has been tested to UL 1449.

QUICK FEATURES

- 10 outlets on back (2 always on), 1 on the front
- Spike and surge protection
- 20 AMP, 2400 Watt capacity
- ETL listed
- **3 Year Warranty**

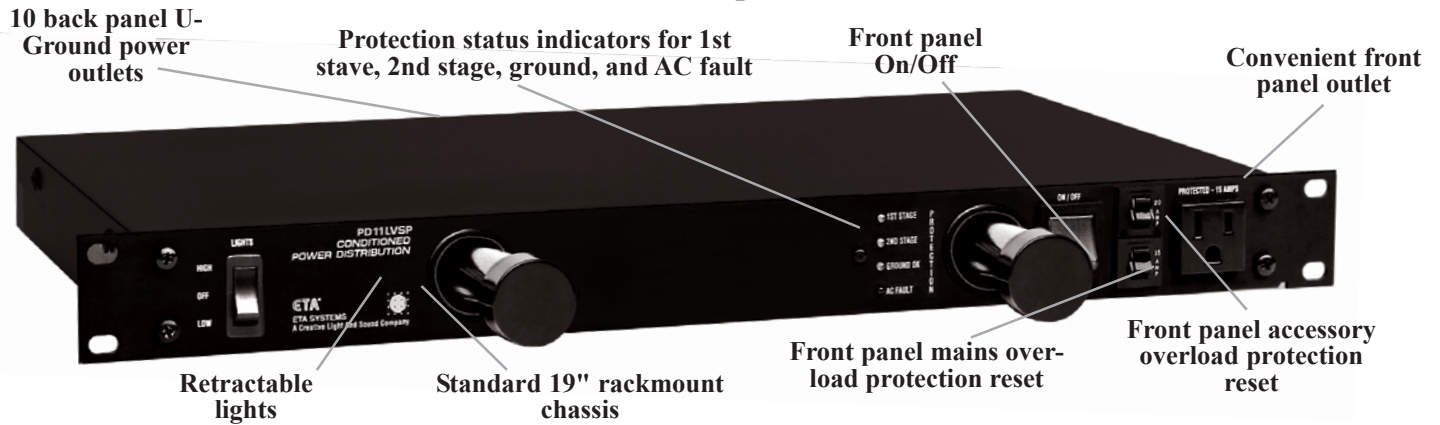
APPLICATIONS

- House of Worship systems
- School sound systems



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PD11LP Up Close



Guide to selling the ETA PD11LP

- **Plenty of outlets.** Total of 11 protected 20-amp outlets: 10 on the back (8 switched, 2 un-switched/always on) and one 15-amp on the front for accessories.
- **Retractable lights.** Sturdy racklights that feature a quick change bulb design.
- **2-Stage Protection.** Comprehensive protection that detects and suppresses spikes incoming and outgoing power legs.
- **Multiple State spike/surge protection.** Incorporating non-sacrificial devices
- **Low clamping voltage.** Compresses a 6,000V spike to a manageable 400V. For the techs this is known as a UL1449 rating of 400V.
- **High power filtering.** Professional grade for 20 AMPS (that's 2,400 WATTS of capacity.)
- **Noise filtering.** Up to 20 dB reduction in line noise in the RF spectrum (1.5MHz to 200MHz spectrum).
- **ETL listed.** Meets standard electrical safety codes and has been tested to UL 1449.

QUICK FEATURES

- 10 outlets on back (2 always on), 1 on the front
- Retractable racklights
- Spike and surge protection
- 20 AMP, 2400 Watt capacity
- ETL listed
- **3 Year Warranty**

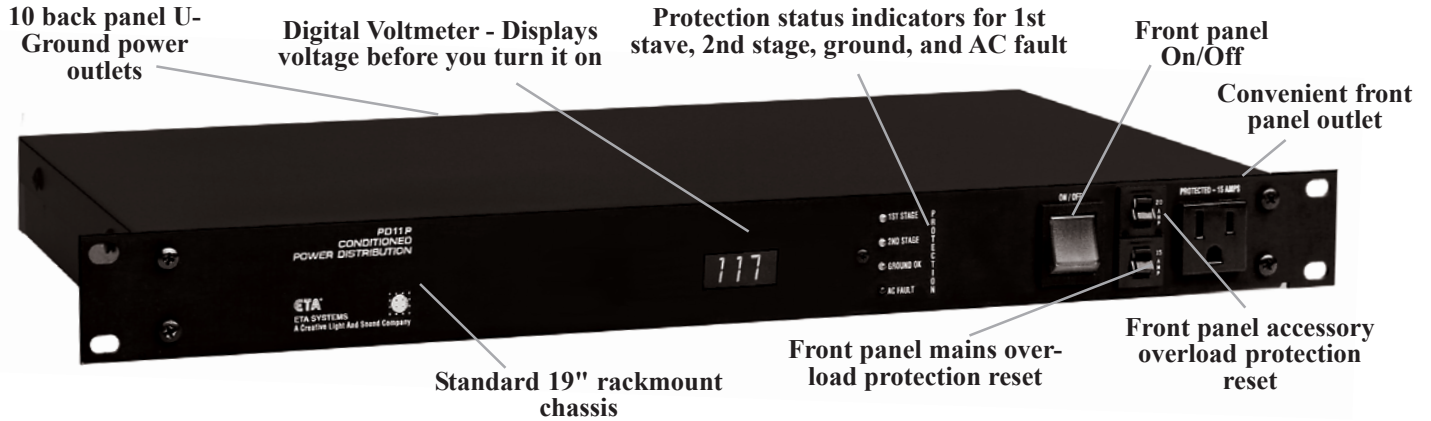
APPLICATIONS

- House of Worship systems
- School sound systems



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PD11VP Up Close



Guide to selling the ETA PD11VP

- **Plenty of outlets.** Total of 11 protected 20-amp outlets: 10 on the back (8 switched, 2 un-switched/always on) and one 15-amp on the front for accessories.
- **Digital Voltage Meter.** Easy to see from a distance. Displays the source voltage in numerical value. Meter always on so you can determine the voltage before you turn your equipment on with the main power switch. (+/- 0.5 volt accuracy)
- **2-Stage Protection.** Comprehensive protection that detects and suppresses spikes incoming and outgoing power legs.
- **Multiple State spike/surge protection.** Incorporating non-sacrificial devices
- **Low clamping voltage.** Compresses a 6,000V spike to a manageable 400V. For the techs this is known as a UL1449 rating of 400V.
- **High power filtering.** Professional grade for 20 AMPS (that's 2,400 WATTS of capacity.)
- **Noise filtering.** Up to 20 dB reduction in line noise in the RF spectrum (1.5MHz to 200MHz spectrum).
- **ETL listed.** Meets standard electrical safety codes and has been tested to UL 1449.



QUICK FEATURES

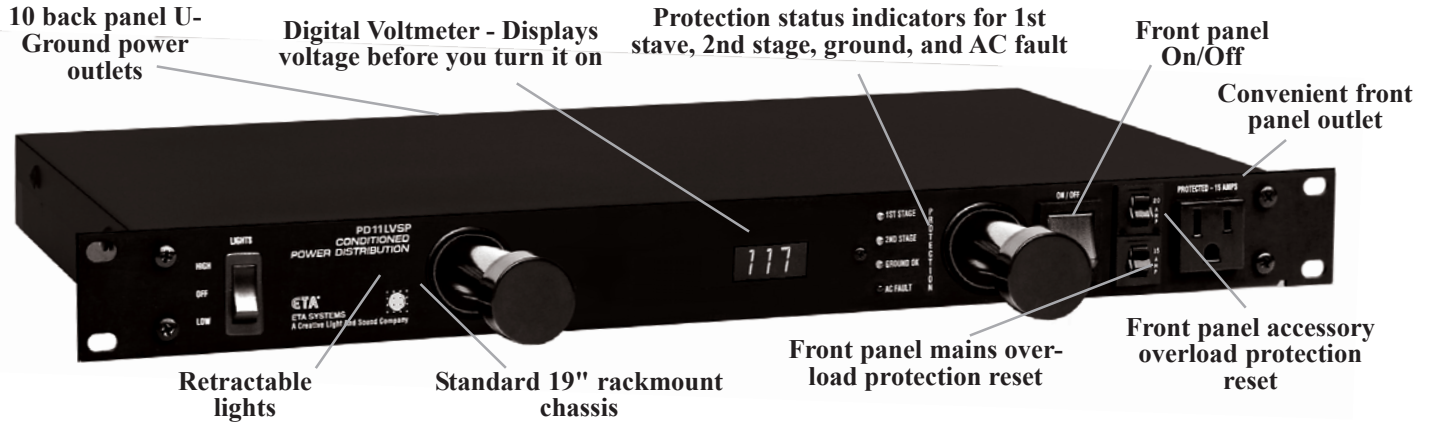
- 10 outlets on back (2 always on), 1 on the front
- Digital voltmeter
- Spike and surge protection
- 20 AMP, 2400 Watt capacity
- ETL listed
- **3 Year Warranty**

APPLICATIONS

- House of Worship systems
- School sound systems

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PD11LVP Up Close



Guide to selling the ETA PD11LVP

- **Plenty of outlets.** Total of 11 protected 20-amp outlets: 10 on the back (8 switched, 2 un-switched/always on) and one 15-amp on the front for accessories.
- **Retractable lights.** Sturdy racklights that feature a quick change bulb design.
- **Digital Voltage Meter.** Easy to see from a distance. Displays the source voltage in numerical value. Meter always on so you can determine the voltage before you turn your equipment on with the main power switch. (+/- 0.5 volt accuracy)
- **2-Stage Protection.** Comprehensive protection that detects and suppresses spikes incoming and outgoing power legs.
- **Multiple State spike/surge protection.** Incorporating non-sacrificial devices
- **Low clamping voltage.** Compresses a 6,000V spike to a manageable 400V. For the techs this is known as a UL1449 rating of 400V.
- **High power filtering.** Professional grade for 20 AMPS (that's 2,400 WATTS of capacity.)
- **Noise filtering.** Up to 20 dB reduction in line noise in the RF spectrum (1.5MHz to 200MHz spectrum).
- **ETL listed.** Meets standard electrical safety codes and has been tested to UI 1449



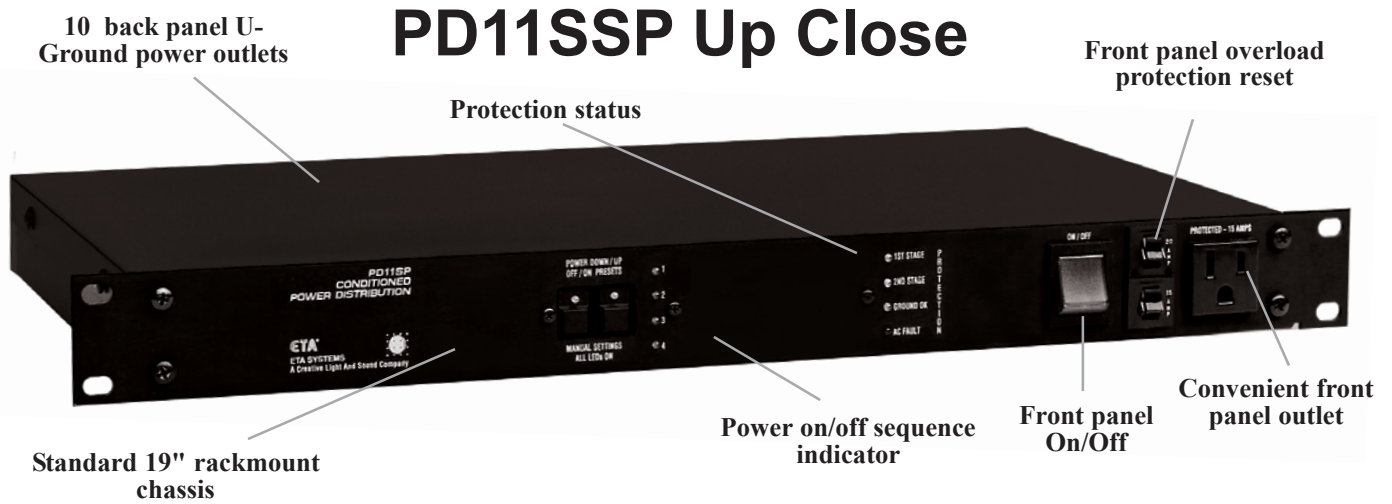
QUICK FEATURES

- 10 outlets on back (2 always on), 1 on the front
- Retractable racklights
- Digital voltmeter
- Spike and surge protection
- 20 AMP, 2400 Watt capacity
- ETL listed
- **3 Year Warranty**

APPLICATIONS

- House of Worship systems
- School sound systems

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Guide to selling the ETA PD11SSP

- **Plenty of outlets.** Total of 11 protected outlets: 10 on the back (8 switched and sequenced, 2 un-switched) and 1 on the front for accessories.
- **Four-Stage Sequencing with adjustable time delay.** Auto or remote sequential power up/down. This is ideal for powering up complete systems that should be turned on/off in a particular sequence to protect all components. One dual outlet per stage.
- **Retractable lights.** Sturdy racklights that feature a quick change bulb design.
- **Digital Voltage Meter.** Easy to see from a distance. Displays the source voltage in numerical value. Meter always on so you can determine the voltage before you turn your equipment on with the main power switch. (+/- 0.5 volt accuracy)
- **2-Stage Protection.** Comprehensive protection that detects and suppresses spikes incoming and outgoing power legs.
- **Multiple State spike/surge protection.** Incorporating non-sacrificial devices
- **Low clamping voltage.** Compresses a 6,000V spike to a manageable 400V. For the techs this is known as a UL1449 rating of 400V.
- **High power filtering.** Professional grade for 20 AMPS (that's 2,400 WATTS of capacity.)
- **Noise filtering.** Up to 20 dB reduction in line noise in the RF spectrum (1.5MHz to 200MHz spectrum).
- **ETL listed.** Meets standard electrical safety codes and has been tested to UL 1449.



Accessible remote connector

QUICK FEATURES

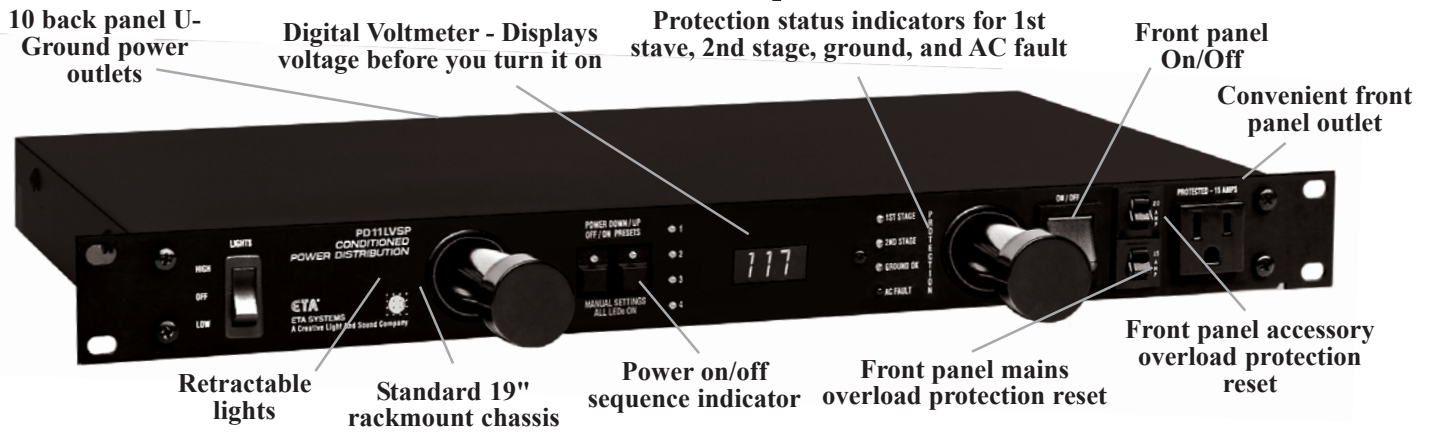
- 10 outlets on back and 1 on the front
- Four-stage sequential power-up
- Spike and surge protection
- 20 AMP, 2400 Watt capacity
- ETL listed
- **3 Year Warranty**

APPLICATIONS

- Large Installations
- Churches
- Recording studios
- Home theater

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PD11LVSP Up Close



Guide to selling the ETA PD11LVSP

- **Plenty of outlets.** Total of 11 protected outlets: 10 on the back and 1 on the front for accessories (8 switched and sequenced).
- **Retractable lights.** Sturdy racklights that feature a quick change bulb design.
- **Four-Stage Sequencing with adjustable time delay.** Auto or remote sequential power up/down. This is ideal for powering up complete systems that should be turned on/off in a particular sequence to protect all components. One dual outlet per stage.
- **Retractable lights.** Sturdy racklights that feature a quick change bulb design.
- **Digital Voltage Meter.** Easy to see from a distance. Displays the source voltage in numerical value. Meter always on so you can determine the voltage before you turn your equipment on with the main power switch. (+/- 0.5 volt accuracy)
- **2-Stage Protection.** Comprehensive protection that detects and suppresses spikes incoming and outgoing power legs.
- **Multiple State spike/surge protection.** Incorporating non-sacrificial devices
- **Low clamping voltage.** Compresses a 6,000V spike to a manageable 400V. For the techs this is known as a UL1449 rating of 400V.
- **High power filtering.** Professional grade for 20 AMPS (that's 2,400 WATTS of capacity.)
- **Noise filtering.** Up to 20 dB reduction in line noise in the RF spectrum (1.5MHz to 200MHz spectrum).
- **ETL listed.** Meets standard electrical safety codes and has been tested to UL 1449.



QUICK FEATURES

- 10 outlets on back and 1 on the front
- Four-stage sequential power-up
- Retractable racklights
- Digital voltmeter
- Spike and surge protection
- 20 AMP, 2400 Watt capacity
- ETL listed
- **3 Year Warranty**

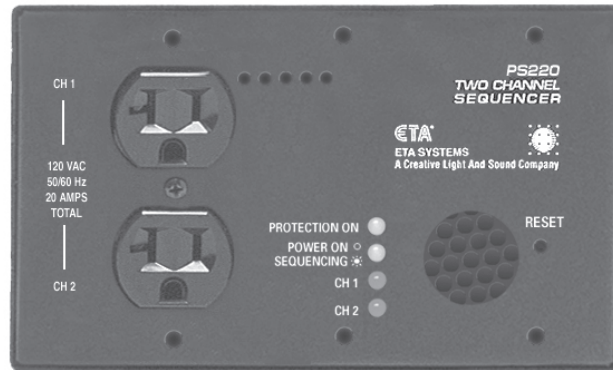
FEATURE PACKED!

- This model packs virtually all of ETA's key features!

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PS220 Up Close

**3-gang electrical outlet
box form factor
(67.3 cu. in. capacity)**



Unlimited linking capability can be chained together with any ETA linking model up to 1000' between using 18 gauge non-polar twisted pair cable

Guide to selling the ETA PS220

- Designed to fit 3-gang electrical outlet box - 67.3 cu. in. capacity
- 20 amps total current available, 2 outlets
- Sequences CH 1 and CH 2 (jumper programmable delay 1, 5, 10 and 30 sec.)
- Remote turn on/off
- Spike and surge protection on all 3 legs of incoming 120V 50/60Hz, single phase electrical power. L To N, N To G, L To G
- Fan cooled
- LED "On/Off", sequencer indicator
- <1 nanosecond surge response time
- 330V clamping voltage
- 6500 amps max. spike current
- 630 joules max. surge energy
- Flying leads for hook-up
- Self-contained low voltage power supply
- Black painted face plate
- Certified to UL 1472 and CSA C22.2 No. 184.1 standards

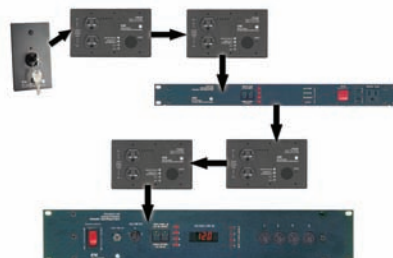
QUICK FEATURES

- 2 outlets
- 2-stage sequential power-up
- Daisy chain-able
- Spike and surge protection
- 20 AMP, 2400 Watt capacity
- UL Certified
- **3 Year Warranty**

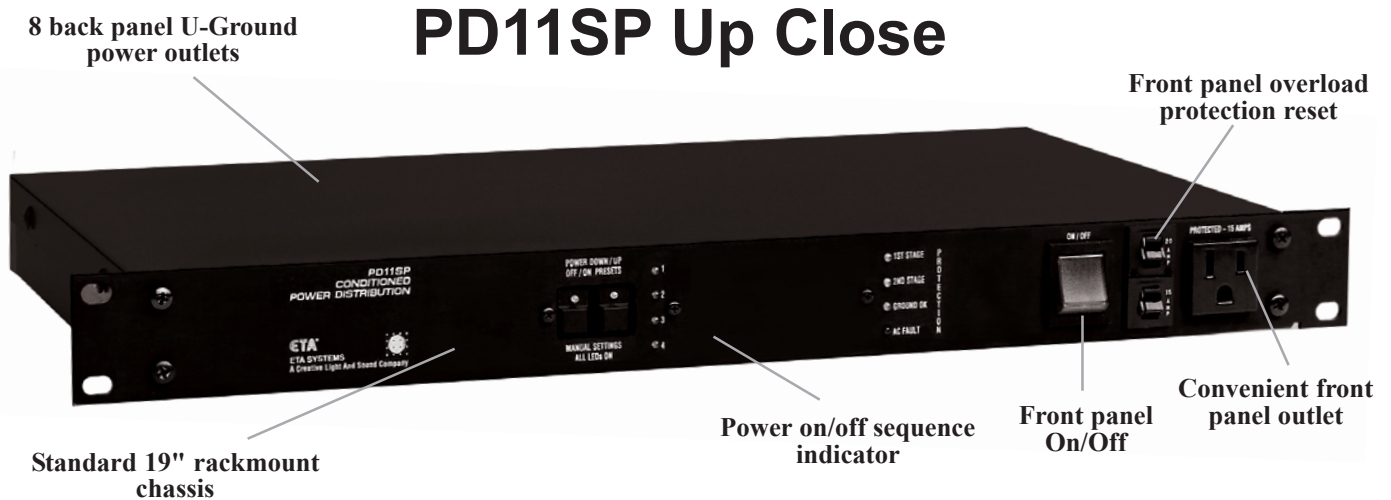
APPLICATIONS

- Large Installations
- Churches
- Boardrooms
- Home theater

TOTAL SYSTEM CONTROL:
Get control of your power with
ETA's remote controlled
system. Up to 1000' total run



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Guide to selling the ETA PD11SP

- **Plenty of outlets.** Total of 9 protected outlets: 8 on the back and 1 on the front for accessories.
- **Four-Stage Sequencing.** Auto or remote sequential power up/down. This is ideal for powering up complete systems that should be turned on/off in a particular sequence to protect all components.
- **Remote Control Capability.** Contact closure can be linked with AMX, Crestron or other control systems.
- **Unlimited linking capability.** Units can be chained together to create 8, 16, 32, and more stages of sequencing. Units connect with nonpolar twisted pair cable with a maximum length of 1,000 ft. - min. 18 gauge.
- **2-Stage Protection.** Comprehensive protection that detects and suppresses spikes incoming and outgoing power legs
- **Low clamping voltage.** Compresses a 6,000V spike to a manageable 400V. For the techs this is known as a UL1449 rating of 400V.
- **High power filtering.** Most units like this will work to 10 or 12 AMPS but this unit works to 15 AMPS (that's 1,800 WATTS of capacity.)
- **Noise filtering.** Up to 20 dB reduction in line noise in the RF spectrum (1.5MHz to 200MHz spectrum).
- **ETL listed.**

QUICK FEATURES

- 8 outlets on back and 1 on the front
- Four-stage sequential power-up
- Daisy chain-able
- Spike and surge protection
- 20 AMP, 2400 Watt capacity
- ETL listed
- **3 Year Warranty**

APPLICATIONS

- Large Installations
- Churches
- Recording studios
- Home theater

Unit linking connectors



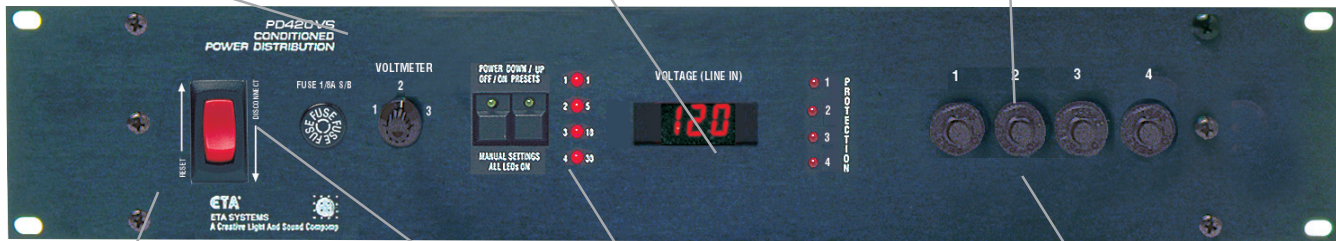
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PD420VS Up Close

14 back panel U-Ground power outlets

Digital Voltmeter - Displays voltage before you turn it on

Front panel overload protection reset for each circuit



Standard 19" rackmount chassis

Front panel On/Off

Power on/off sequence indicator

Unlimited linking capability

Guide to selling the ETA PD420VS

- **Plenty of outlets.** Total of 14 protected outlets: Circuit 1, 2 and 3 have 4 outlets each, circuit 4 has 2 outlets.
- **High power filtering.** Four 20-amp circuits for a 80 amp total capacity (that's 9,600 WATTS of filtering capacity.)
- **Single or three phase power hookup.**
- **Digital Voltage Meter.** Easy to see from a distance. Displays the source voltage in numerical value. Meter always on so you can determine the voltage before you turn your equipment on with the main power switch.
- **Four-Stage Sequencing.** Auto or remote sequential power up/down. This is ideal for powering up complete systems that should be turned on/off in a particular sequence to protect all components.
- **Remote Control Capability.** One or more PD420VS can be remotely activated in power-up or power-down sequence.
- **Unlimited linking capability.** Units can chained together to create 8, 16, 32, and more stages of sequencing. Units connect with nonpolar twisted pair cable with a maximum length of 1,000 ft.-min. 18 gauge.
- **Incoming 3-way spike protection.** Comprehensive protection that detects and suppresses spikes between positive and negative, positive and ground, and negative and ground.
- **Low clamping voltage.** Compresses a 6,000V spike to a manageable 395V. For the techs this is known as a UL1449 rating of 395V.
- **Noise filtering.** Up to 20 dB reduction in line noise in the RF spectrum (1.5MHz to 200MHz spectrum).
- **ETL listed.** Meets ETL standard electrical safety codes to UL1449 standard.

QUICK FEATURES

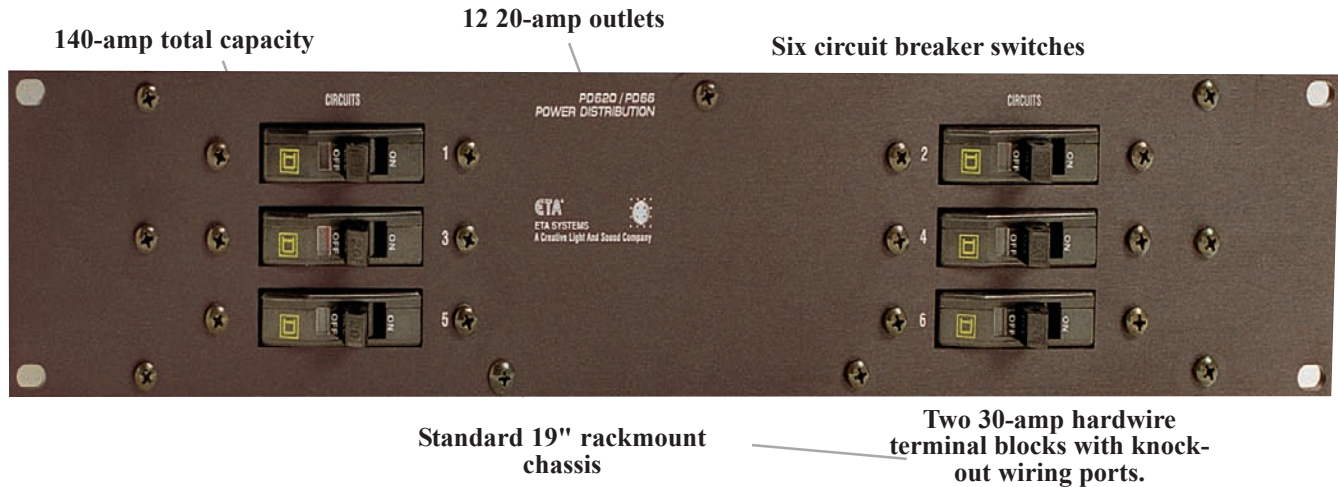
- 14 outlets
- Digital Volt Meter
- Four-Stage Sequence Power-up
- Spike and surge protection
- 80 AMP, 9600 Watt capacity
- Spike and surge protection
- Four 20-amp circuits
- ETL Listed
- **3 Year Warranty**

APPLICATIONS

- Live sound production

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PD66 and PD620 Up Close

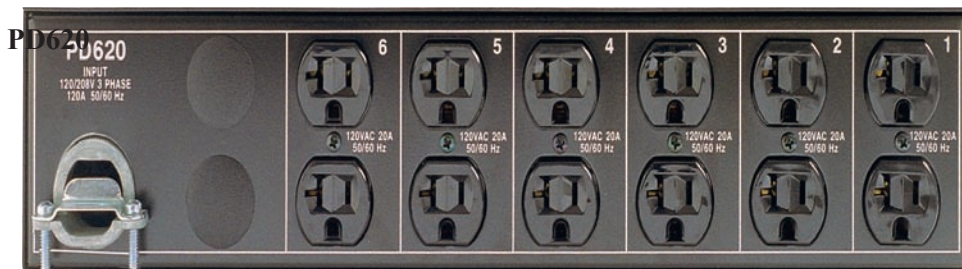


Guide to selling the ETA PD66 and PD620

- **Plenty of outlets.** Total of 12 20-amp outlets plus two 30-amp hardwire terminal blocks with knockout wiring ports.
- **Ultra High power filtering.** Two 30-amp circuits plus four 20-amp circuits for a 140-amp total capacity (that's 16,800 WATTS of capacity.)
- **Six front panel circuit breakers.**
- **Single or three phase power up.**
- **ETL Listed.** Recognition by ETL as meeting standard electrical safety codes.

QUICK FEATURES

- 12 20-amp outlets
- Two 30-amp terminal (PD66)
- 140 AMP, 16,800 Watt capacity
- ETL Listed
- **3 Year Warranty**



120V unit, 6 circuits of 20AMPs each

APPLICATIONS

- Live sound production



What is Clamping Voltage And Why Is It Important?

Momentary high voltage spikes and surges are a major cause for equipment malfunction or total failure of electronic circuitry and equipment. Digital devices are more sensitive to spikes and surges and require protection at lower voltages. ETA PDs provide spike and surge protection at lower clamping voltage than competitive power distribution components. ETA is simply the best choice in power distribution.

What's different in ETA "voltage clamping?"

The heart of the ETA Power Conditioner is the Metal Oxide Varistor (MOV) These devices are known for their ability to suppress and absorb momentary voltage spikes and surges. ETA utilizes MOVs because of their well know reliable spike and surge protection properties.

ETA also utilizes Supplementary Diodes and Gas Discharge Tubes. Zener or avalanche diodes placed in a circuit offer precise clamping and faster response to short rise time spikes. Diodes should always be used in conjunction with MOVs. Gas Discharge Tubes are used to support MOV protection because they have an extremely fast response time that catch the leading edge of fast-rising spikes that might be missed by

MOV's. Utilizing these three protection devices across all three legs of the incoming power, A STANDARD ON ALL ETA CONDITIONED POWER DISTRIBUTION UNITS, provides safe, reliable protection of all power distribution needs.

How is clamping voltage measured?

Even though the measurement is called "clamping voltage", it is actually a measurement of both VOLTAGE and CURRENT. MOVs start clamping voltage around 200V when the current is low. This clamping voltage increases as the current increases. To help compare components to each other, the electronics industry came up with a standard to measure clamping voltage called UL1449 specifying both the voltage and the amperage of the measurement. UL1449 measures what voltage remains after a 6,000V, 500A spike. That's quite a spike that you would not want your equipment unprotected from that. NOTE: If a manufacturer is using this UL1449 standard to measure clamping voltage they will probably indicate it. Beware! If this standard is not being used there is no way to qualify the protection afforded your equipment. ETA uses the UL1449 standard to assure proper protection for your equipment.



Professional Power Distribution Product Sales Guide



Feature & Specification Comparison

Specification	PD8	PD8L	PD9L	PD11LV	PD11SS	PD11P	PD11LP	PD11VP	PD11LVP	PS220	PD11SP	PD11LVSP	PD420VS	PD66/620	PD10VRS
Input Voltage:	120VAC	120VAC	120VAC	120VAC	120VAC	120VAC	120VAC	120VAC	120VAC	120VAC	120VAC	120VAC	120/208 or 3 Phase	120/208 or 3 Phase	120VAC
Total Amps/Unit:	15 amps, 1800 watts	15 amps, 1800 watts	15 amps, 1800 watts	20 amps, 2400 watts	15 amps, 1800 watts	20 amps, 2400 watts	20 amps, 2400 watts	20 amps, 2400 watts	20 amps, 2400 watts	20 amps, 2400 watts	20 amps, 2400 watts	20 amps, 2400 watts	80 amps, 9600 watts	140 amps, 16,800 watts	15 amps, 1800 watts
Watchdog Circuitry	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Surge Protection	Yes, 3-leg	Yes, 3-leg	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Audible Protection Alarm	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Rack Lights:	No	Yes	Yes	Yes	No	Yes	Yes	No	Yes	No	No	Yes	No	No	No
Voltage Meter:	No	No	Yes	Yes	No	No	Digital	Digital	Digital	No	No	Digital	Digital	No	Digital
Circuit Breaker, Front Panel:	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Max Number of Outlets:	8	8	9	11	11	11	9	11	11	2	9	8	14	16	10
Sequencing:	No	No	No	No	4-Stage	NO	NO	NO	NO	4-Stage	4-Stage	4-Stage	4-Stage	-	4-Stage
Filtering:	EMIRFI	EMIRFI	EMIRFI	EMIRFI	EMIRFI	EMIRFI	EMIRFI	EMIRFI	EMIRFI	EMIRFI	EMIRFI	EMIRFI	EMIRFI	EMIRFI	EMIRFI
Noise Attenuation:	Up to 68dB, 150KHz to 100MHz	Up to 68dB, 150KHz to 100MHz	Transverse->35dB, 100KHz to 100MHz	Transverse->20dB, 1.5 to 200MHz	Transverse->20dB, 1.5 to 200MHz	Transverse->20dB, 1.5 to 200MHz	Transverse->20dB, 1.5 to 200MHz	Transverse->20dB, 1.5 to 200MHz	Transverse->20dB, 1.5 to 200MHz	Transverse->20dB, 1.5 to 200MHz	Transverse->20dB, 1.5 to 200MHz	Transverse->20dB, 1.5 to 200MHz	Transverse->20dB, 1.5 to 200MHz	Transverse->20dB, 1.5 to 200MHz	Transverse->20dB, 1.5 to 200MHz
Maximum Surge Current (Protects up to...)	65,000A	65,000A	12,000A	6,500A	12,000A	23,000A	23,000A	23,000A	23,000A	23,000A	23,000A	23,000A	23,000A	-	23,000A
Maximum Energy Dissipation	1665 Joules	1665 Joules	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Clamping Voltage: (the lower the better)	330 VAC	330 VAC	400 V peak	400 V peak	400 V peak	400 V peak	400 V peak	400 V peak	400 V peak	200 VAC	200 VAC	200 VAC	200 VAC	200 VAC	495 V peak
Response Time, typical:	<1 ns	<1 ns	<1 ns	<1 ns	<1 ns	<1 ns	<1 ns	<1 ns	<1 ns	<1 ns	<1 ns	<1 ns	<1 ns	<1 ns	<1 ns
Rackmounting Information:	1U	1U	1U	1U	1U	1U	1U	1U	1U	3 Gang Wall	1U	1U	2U	3U	1U
Dimensions:	19"x6"x 1 3/4" (WXDXH)	19"x6"x 1 3/4" (WXDXH)	19" x 7 1/2" x 1 3/4" (WXDXH)	19" x 7 3/4" x 1 3/4" (WXDXH)	19" x 7 3/4" x 1 3/4" (WXDXH)	19" x 7 3/4" x 1 3/4" (WXDXH)	19" x 7 3/4" x 1 3/4" (WXDXH)	19" x 7 3/4" x 1 3/4" (WXDXH)	19" x 7 3/4" x 1 3/4" (WXDXH)	-	19" x 7 3/4" x 1 3/4" (WXDXH)	19" x 7 3/4" x 1 3/4" (WXDXH)	19" x 12" x 3.5" (WXDXH)	19" x 12" x 3.5" (WXDXH)	19" x 12" x 1 3/4" (WXDXH)
Shipping Weight:	8 lbs	8 lbs	8 lbs	8 lbs	10 lbs	8 lbs	8 lbs	8 lbs	8 lbs	4 lbs	10 lbs	10 lbs	21 lbs	21 lbs	25 lbs
Warranty	3-years	3-years	3-years	3-years	3-years	3-years	3-years	3-years	3-years	3-years	3-years	3-years	3-years	3-years	3-years
List:	\$79	\$99	\$160	\$240	\$390	\$220	\$250	\$330	\$380	\$299	\$490	\$650	\$1,100	\$750/\$800	\$990

Prices and specifications are subject to change without notice

Additional Reasons to buy ETA ✓
Line Regulators → Input and output circuit protection located on the front panel for convenient access

✓ High efficiency toroidal autotransformer

✓ Field adjustable voltage calibration, sequencer delay, and display brightness

CONTACT STARIN IF YOU HAVE A TECHNICAL QUESTION ON POWER DISTRIBUTION info@Starin.biz 219.929.4127