

INSIDE THIS GUIDE

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See page 19.

• **WHAT IS THE PURPOSE OF AN AC LINE REGULATOR?**

See page 19.

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

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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.

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.

Starin's ETA Dealer Portal: <http://eta.starin.biz>

Call us
for help!

(219) 929-4127

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Why Buy Power Distribution?

How do you get your entire system plugged into one wall outlet? You need quality AC power distribution that takes the wall power and distributes that power to your many devices. Quality power distribution performs several functions before your equipment is 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. THESE AC PROBLEMS CAN BE ELIMINATED WITH PROPER SPIKE AND SURGE PROTECTION. All ETA PD models provide the very best in spike and surge protection.

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. In many instances your line voltage may vary. 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 such as the PD11LVP include a digital voltmeter that allows you to see what the line voltage is. When you see that it is within safe limits, switch on the ETA PD and current is allowed to pass to your components. Protection from long-term line voltage variances (sagging line voltage that causes brown outs and limits performance to overabundant line voltage can potentially damage your gear) 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.

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

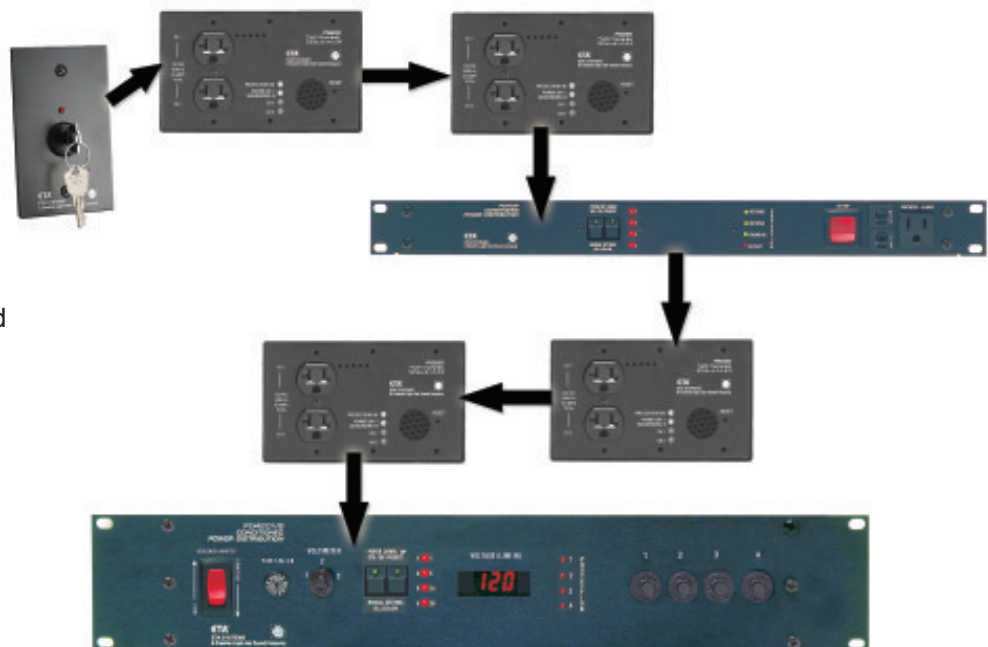
Noise can be induced into your musical creations through your AC power lines. Electro-Mechanical Interference (EMI) occurs when another device on the same electrical circuit causes noise. Refrigerators, ice makers, air conditioners, as well as other EM machines are frequent offenders. Just when you can least afford it, a buzz or hum suddenly occurs. ALL ETA PDs have excellent filtering for EMI interference. Noise can also be induced through the air. We call this noise Radio Frequency Interference (RFI). Frequent offenders of RFI are rheostat lighting dimmers. Many common lighting fixtures can cause untimely hums, buzzes and clicks. ALL ETA PDs have excellent RFI filtering. When noise on an AC line causes problems with your performance, ETA PDs will eliminate that noise.

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

Some of us are truly taxing the electrical circuits in our homes or offices, occasionally blowing circuit breakers when we turn on our gear. The time when most of our components consume the maximum amount of power is at the turn-on point due to a phenomenon called "on rush". This effect can be avoided by separating the gear going to one circuit into sub groups of equipment. An ETA power sequencer (PD11SP, PD11SS, PD11SSP, PD11LVSP, PS220 and PD10VRS) will turn on one group then delay the turn-on of the second and third groups. This way, the extra power needed to get your gear up and running is spread out over time instead of every piece of gear participating in a feeding frenzy over a limited amount of power. Whatever your demands for power distribution, ETA has the best solution.

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



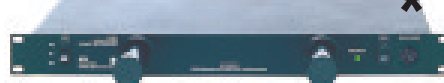
Standard Series (15 Amp)



PD8 Retail \$79.00 *

8 Outlet Power Distribution

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



PD8L Retail \$99.00 *

8 Outlet Power Distribution

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



PD9L Retail \$160.00

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



PD11SS Retail \$390.00 *

11 Outlet Power Sequencer

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

Which do I choose?

"20AMP" Plug

"15AMP" Plug

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.



Retail \$240.00

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 \$220.00

11 Outlet Power Distribution

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



PD11LP Retail \$250.00 *

11 Outlet Power Distribution

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



PD11VP Retail \$330.00

11 Outlet Power Distribution + Voltmeter

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

PD11LVP Retail \$380.00
"Add Lights" *



Sequenced Power

Retail \$299.00



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

9 Outlet Power Sequencer

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



PD11LVSP

11 Outlet Power Sequencer

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



PD420VS

16 Outlet Power Sequencer

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

Special Application Series



Retail \$800.00

PD66 and PD620

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

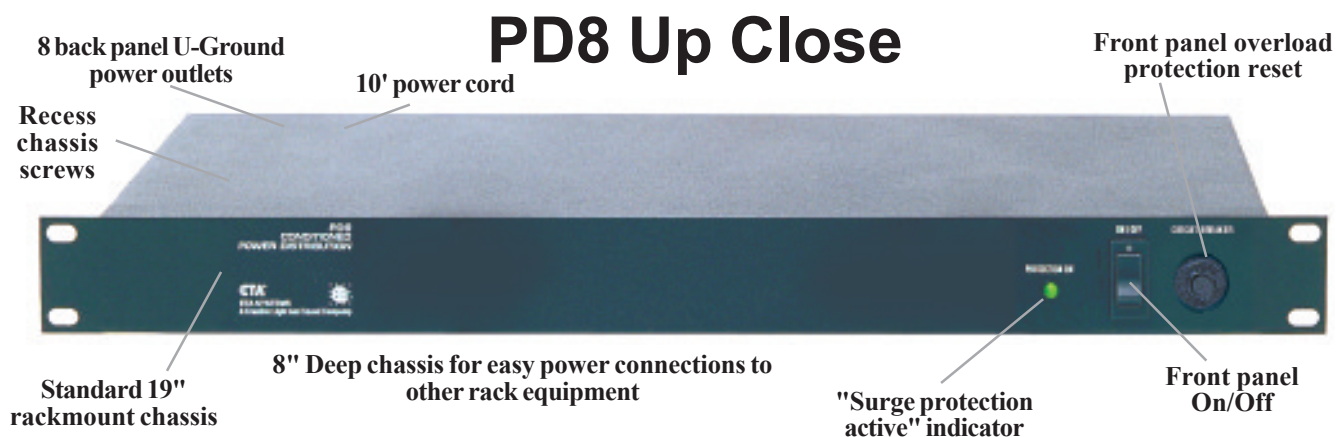


Retail \$990.00

PD10VRS

10 Outlet Power Regulator

- 10 outlets on back, 2 always on
- Regulates voltage to 117V
- Four-stage power sequencing
- 15 AMP, 1800 Watt capacity



Guide to selling the ETA PD8

Changes and upgrades from the 2000 PD model:

- **2.5" Deeper.** The unit now 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.
- **Improved EMI/RFI filtration** = better performance
- **Heavier construction.** New chassis design meets "touring" grade quality.
- **Advanced Protection.** 3-way protection on all 3 legs of incoming power
- **UL 1449 Listed**

Other features:

- **Watchdog protection circuitry.** Comprehensive protection that detects and suppresses spikes between positive and negative, positive and ground, and negative and ground. **Also provides audible protection alarm when Watchdog is engaged.**
- **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).

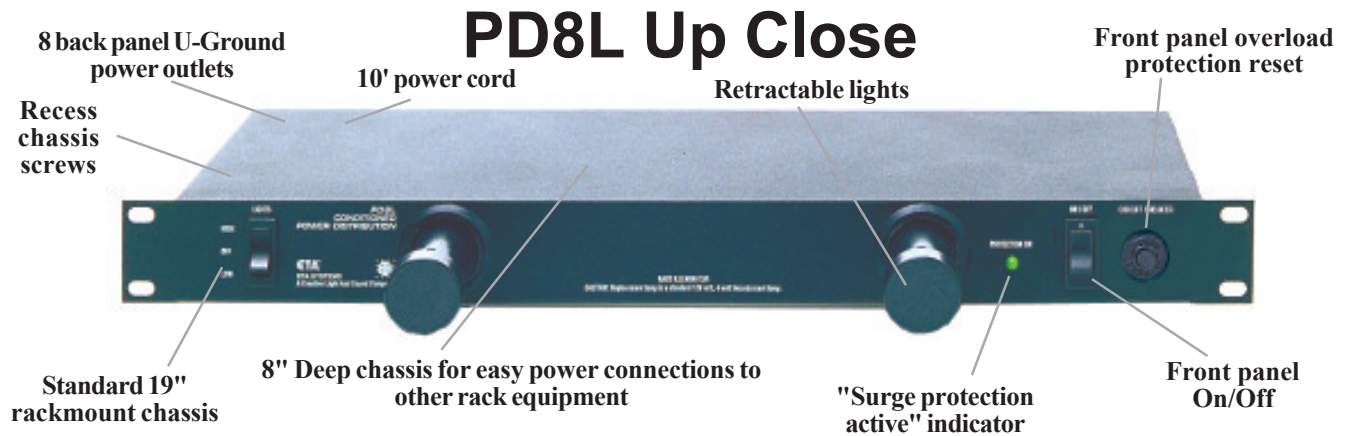
QUICK FEATURES

- 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 PD8

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QUICK FEATURES

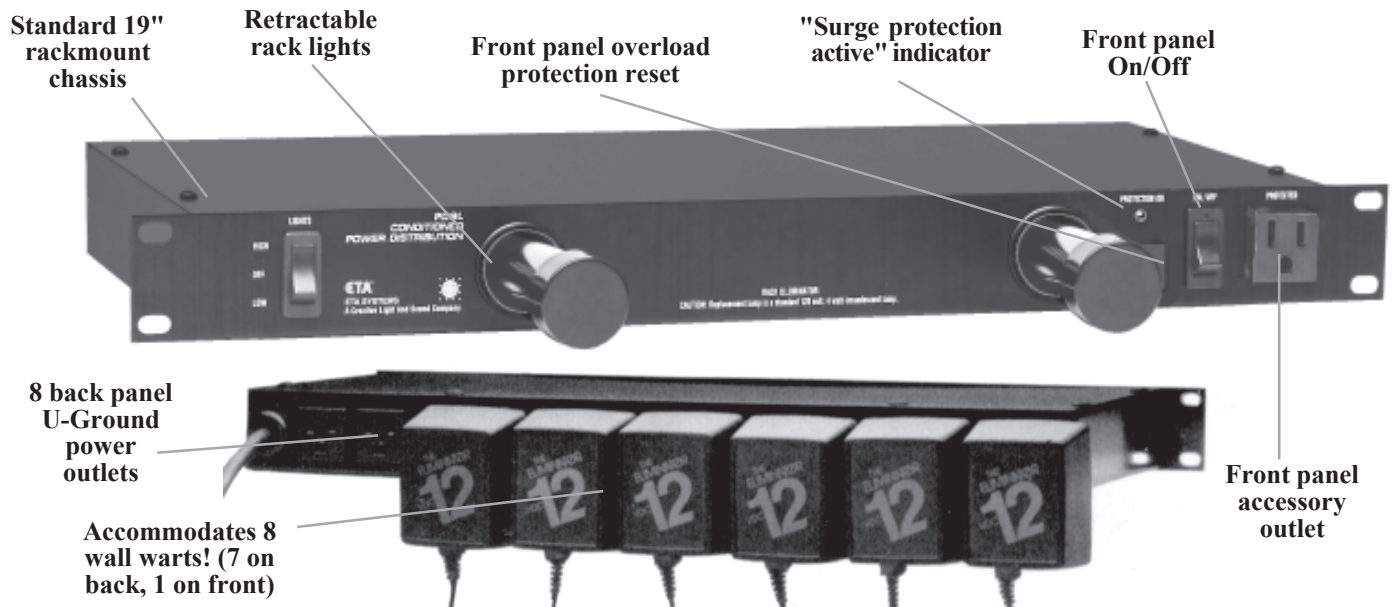
- 8 Protected outlets on the back
- Retractable lights
- Spike and surge protection
- 15 AMP, 1800 Watt capacity
- UL 1449 Listed
- **3 Year Warranty**

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 recognized.** Underwriters Laboratory approved voltage converters.

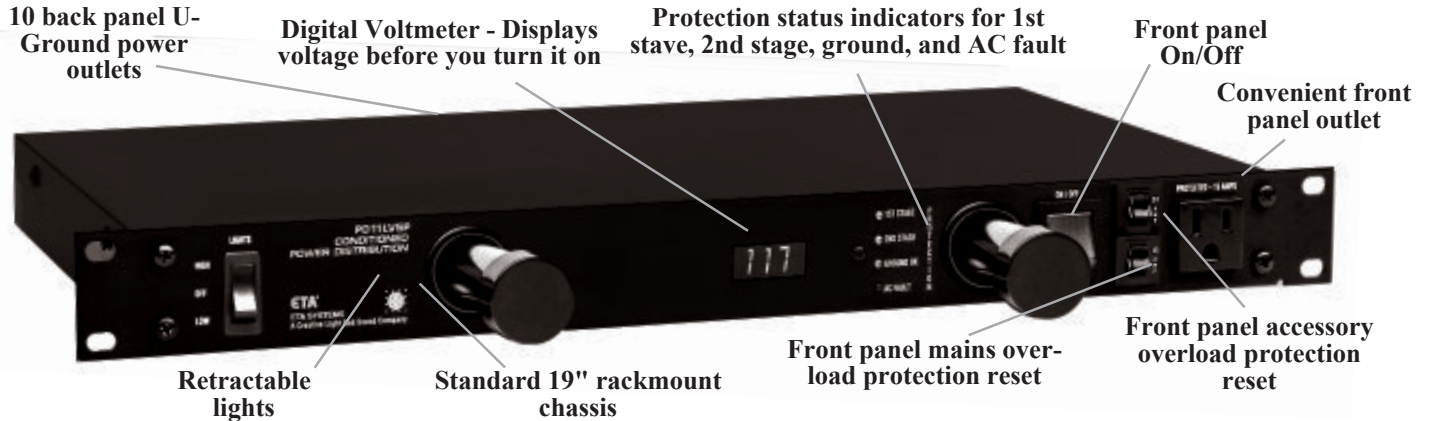
QUICK FEATURES

- 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 recognized
- **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 UL 1449 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.

This unit officially replaces the PD9LV



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

CALL STARIN MARKETING AT (219) 929-4127 IF YOU HAVE A TECHNICAL QUESTION ON ETA

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.



Improved connector for remote

QUICK FEATURES

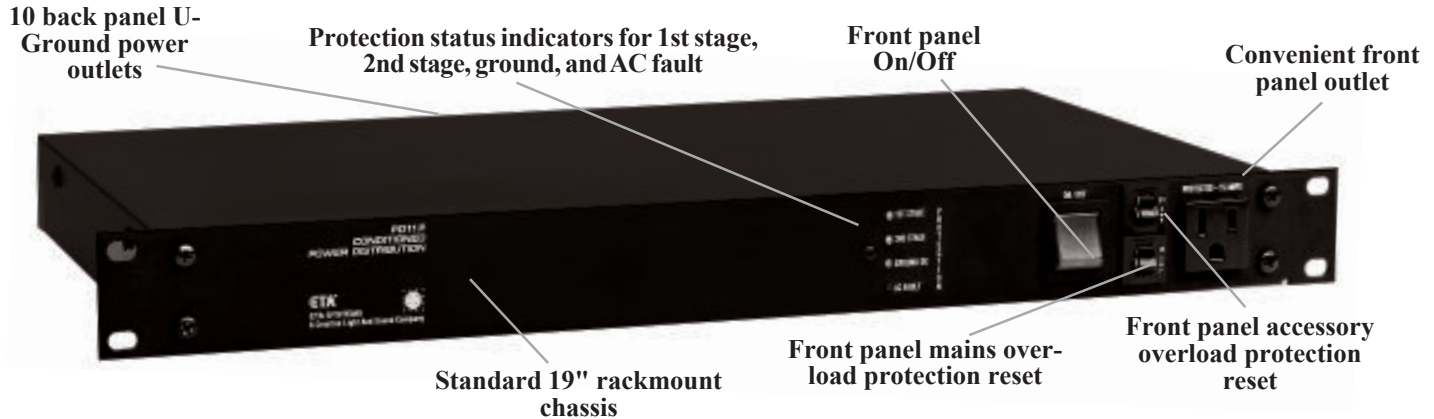
- 10 outlets on back and 1 on the front
- Four-stage sequential power-up
- Spike and surge protection
- 15 AMP, 1800 Watt capacity
- ETL listed
- **3 Year Warranty**

APPLICATIONS

- Installations
- Theatres
- Sound reinforcement
- Boardrooms

CALL STARIN MARKETING AT (219) 929-4127 IF YOU HAVE A TECHNICAL QUESTION ON ETA

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.
- **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 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.

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**

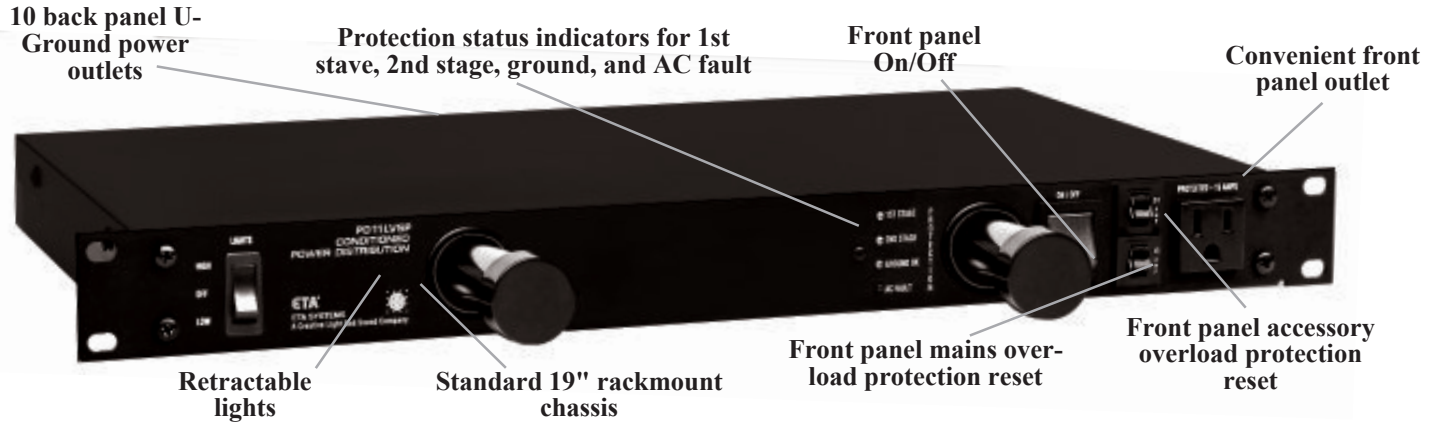
APPLICATIONS

- House of Worship systems
- School sound systems



CALL STARIN MARKETING AT (219) 929-4127 IF YOU HAVE A TECHNICAL QUESTION ON ETA

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.
- **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 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.

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**

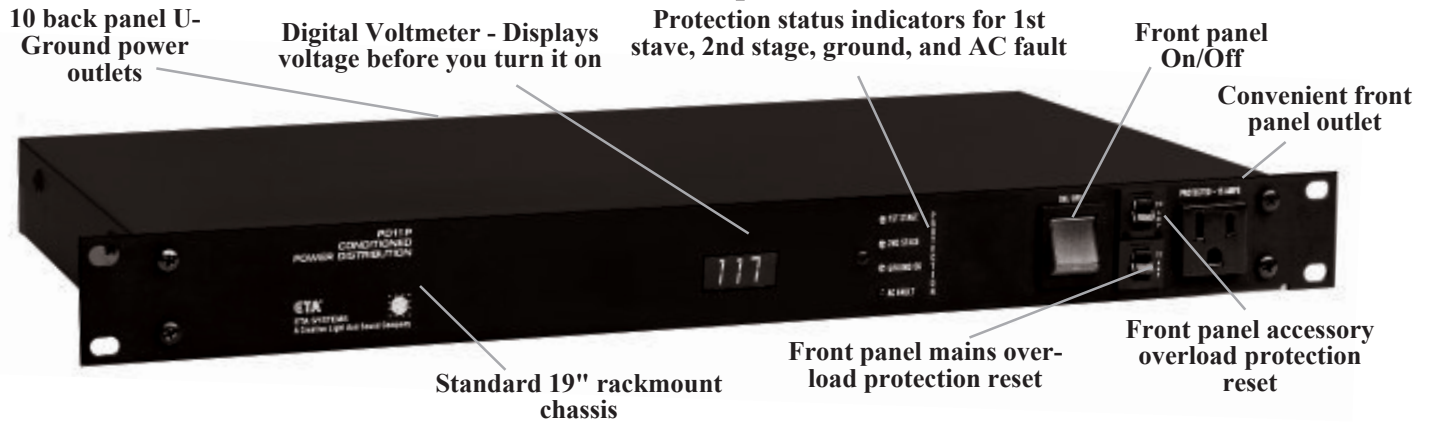
APPLICATIONS

- House of Worship systems
- School sound systems



CALL STARIN MARKETING AT (219) 929-4127 IF YOU HAVE A TECHNICAL QUESTION ON ETA

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)
- **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 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.

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**

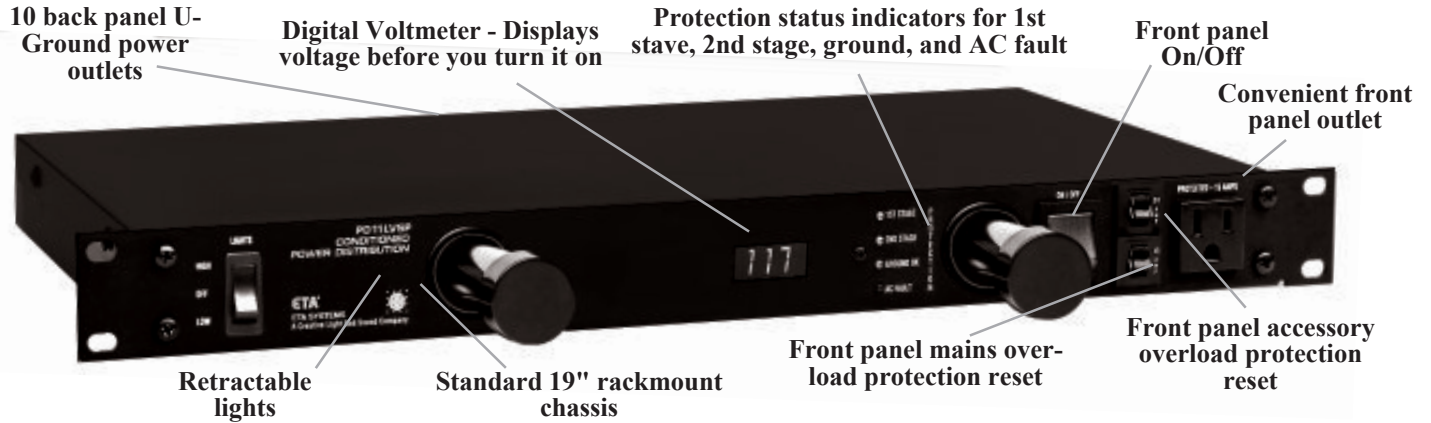
APPLICATIONS

- 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)
- **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 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.



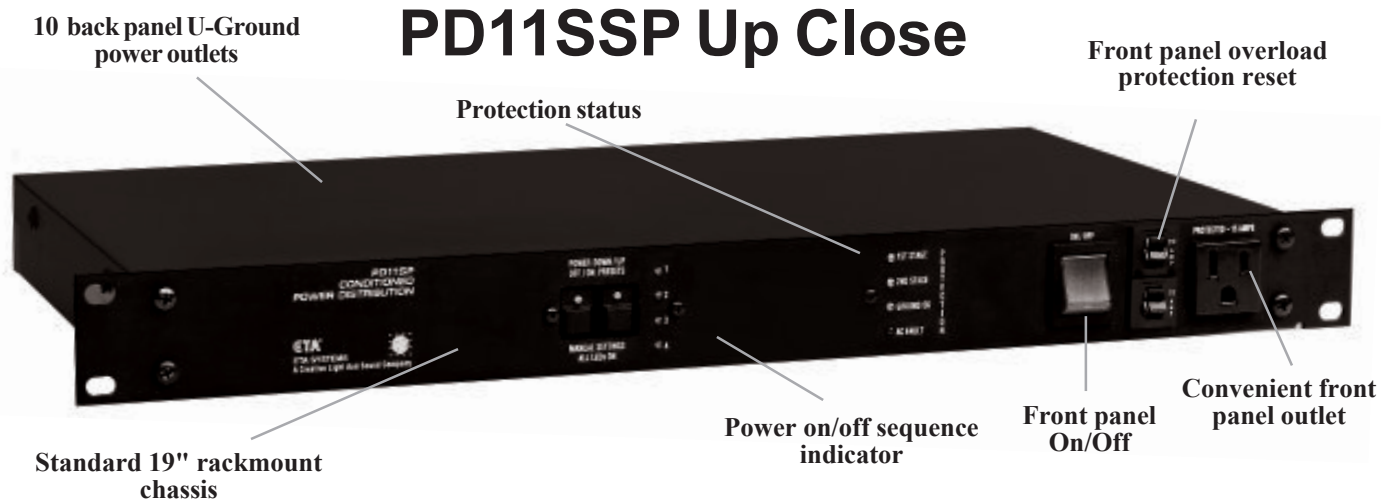
QUICK FEATURES

- 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

CALL STARIN MARKETING AT (219) 929-4127 IF YOU HAVE A TECHNICAL QUESTION ON ETA



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.
- **Remote Control Capability.** One or more PD11SSP can be remotely activated.
- **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.**

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

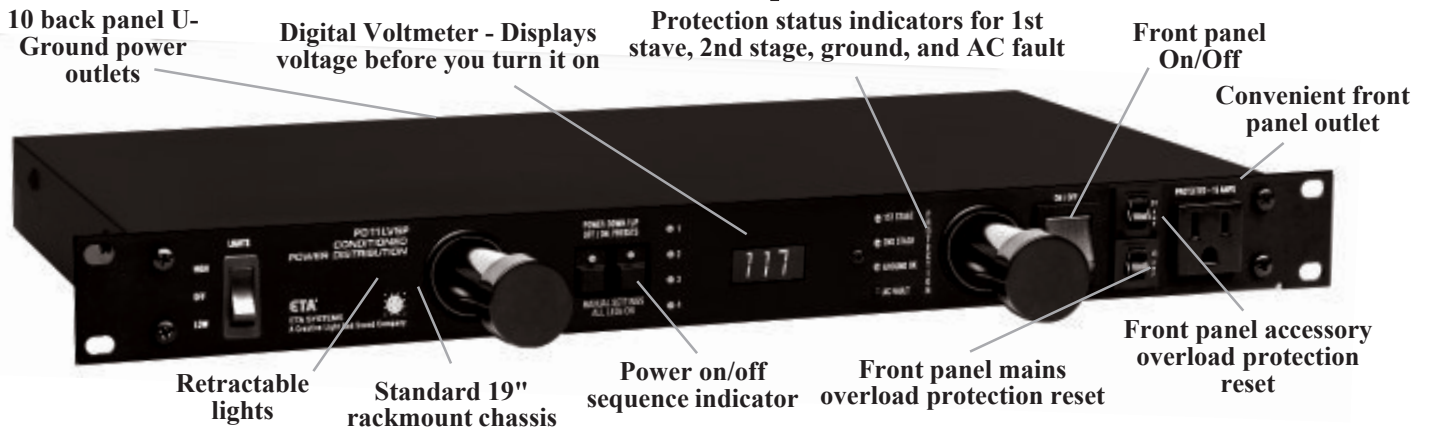
- Large Installations
- Churches
- Recording studios
- Home theater

Accessible remote connector



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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.
- **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. (+/- 0.5V accuracy)
- **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 PD11LVSP can be remotely activated.
- **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
- 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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Note: Prices and specifications are subject to change without notice

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

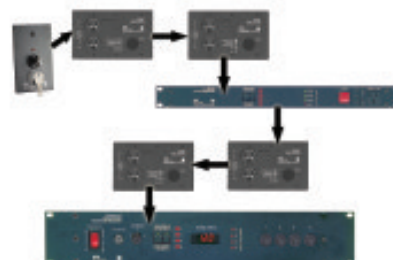
- 2 outlets
- 2-stage sequential power-up
- Daisy chain-able
- Spike and surge protection
- 20 AMP, 2400 Watt capacity
- UL Certified
- **3 Year Warranty**

APPLICATIONS

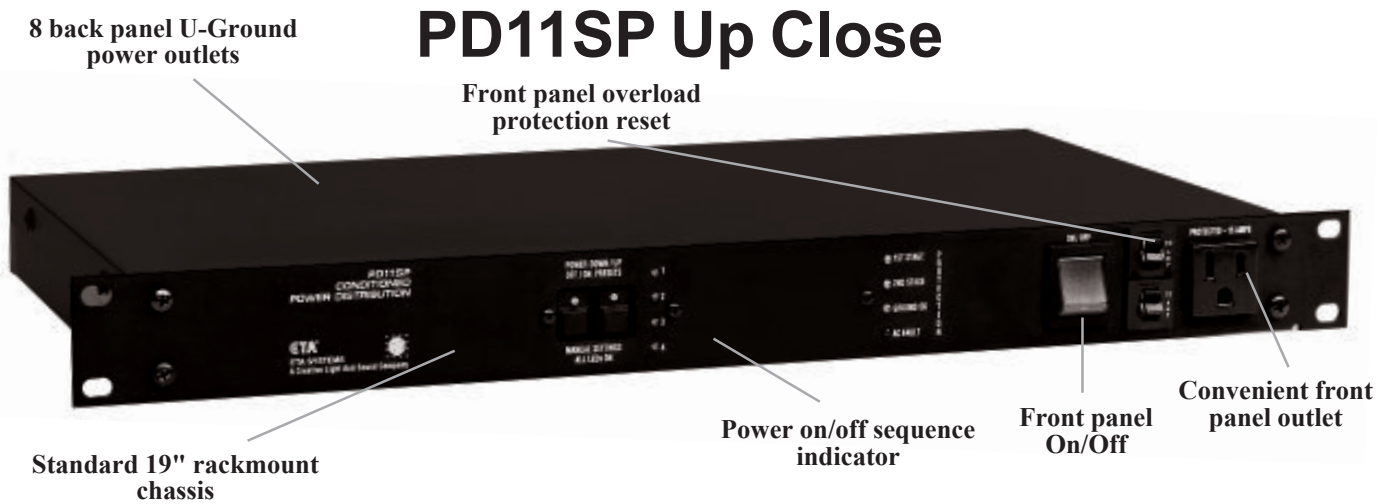
- Large Installations
- Churches
- Boardrooms
- Home theater

TOTAL SYSTEM CONTROL:

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



CALL STARIN MARKETING AT (219) 929-4127 IF YOU HAVE A TECHNICAL QUESTION ON ETA



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.** One or more PD11SP can be remotely activated.
- **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.
- **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.**

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



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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 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.
- **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

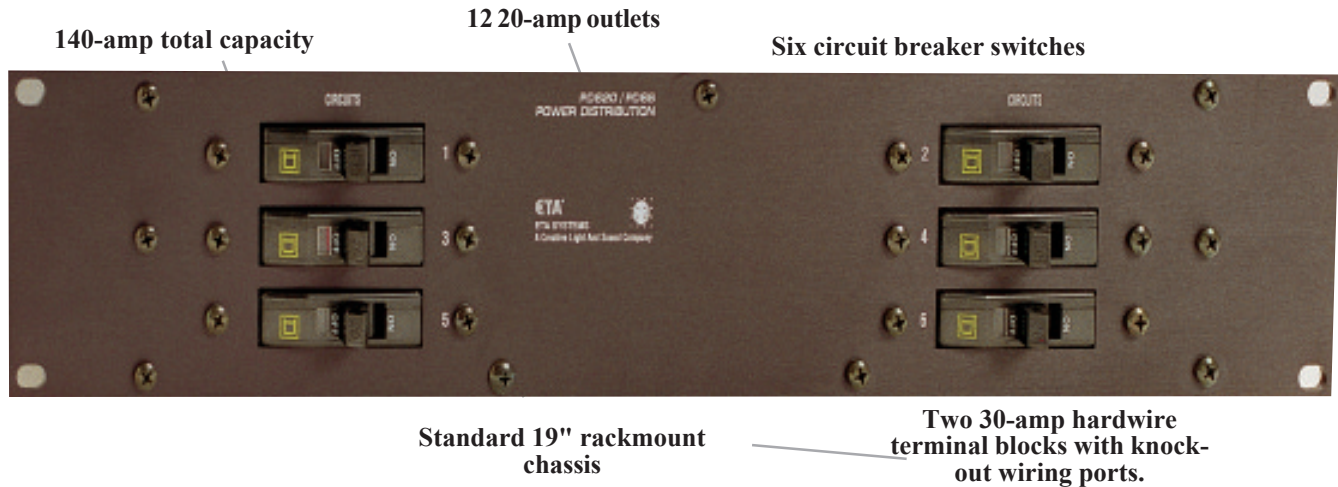
- 14 outlets
- Digital Volt Meter
- Four-Stage Sequence Power-up
- Spike and surge protection
- 80 AMP, 9600 Watt capacity
- Spike and surge protection
- Four 20-amp circuits
- ETL Listed
- **3 Year Warranty**

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

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

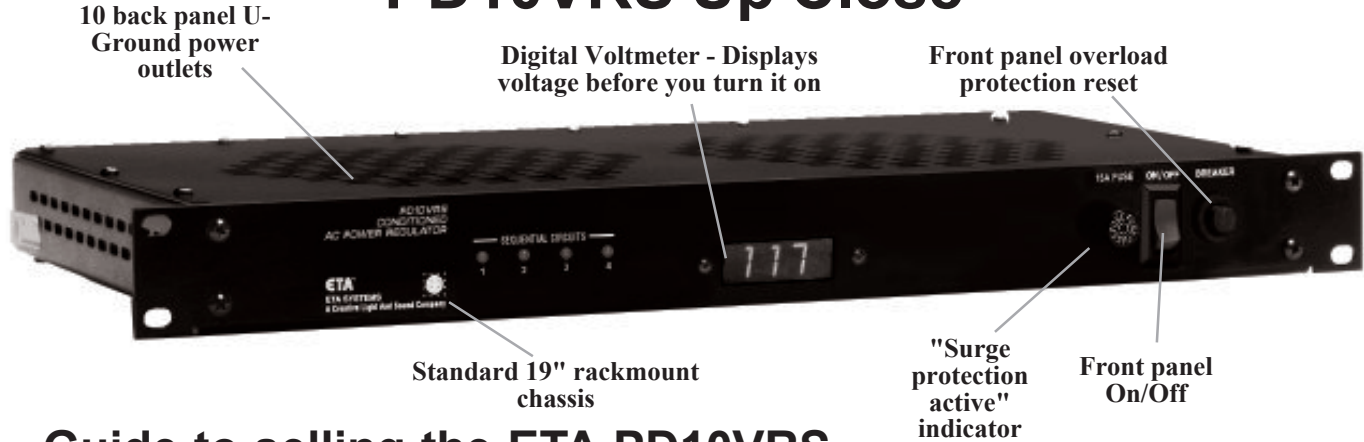


120V unit, 6 circuits of 20AMPs each

APPLICATIONS

- Live sound production

PD10VRS Up Close



Guide to selling the ETA PD10VRS

- **Plenty of outlets.** Total of 10 protected outlets: 10 on the back (8 switched and regulated, 2 un-switched/always on).
- **Voltage Regulation.** Stabilizes output voltage to 117 Volts with a 80-150 Volt incoming power range.
- **Microprocessor controlled voltage regulation.** Sophisticated system that monitors all conditions and computes performance for every power cycle. Also compensates for devices with switching power supplies.
- **Four-Stage Sequencing.** Auto or remote sequential power up/down. This is ideal for powering up compete systems that should be turned on/off in a particular sequence to protect all components.
- **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.
- **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 regulation capacity.)
- **Overload protection.** In the event of a circuit overload, your equipment will be protected by a "soft" shutdown vs. the "hard" shutdown of a relay collapsing.
- **Noise filtering.** Up to 20 dB reduction in line noise in the RF spectrum (1.5MHz to 200MHz spectrum).



QUICK FEATURES

- Voltage Regulator
- 10 outlets
- Digital Volt Meter
- Four-Stage Sequence Power-up
- Spike and surge protection
- 15 AMP, 1800 Watt capacity
- Overload protection
- **3 Year Warranty**

APPLICATIONS

- Workstations
- Sound reinforcement
- Boardrooms
- Recording studios

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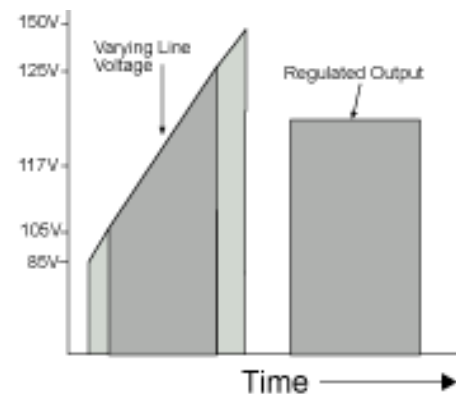
Purpose of AC Line Regulation

Most components do not perform well outside a narrow window of AC line voltage levels. Irregularities in AC line voltage levels can stem from various sources such as weather and EM machinery power up/down.

The fix for these irregularities is known as voltage regulation which raises or lowers the voltage back to a standard level before electronic equipment has a chance to detect a change.

What makes the ETA voltage regulators the best? The ETA model PD10VRS has a microprocessor to manage all operational controls and digital display func-

tions. The result is a sophisticated system that monitors all conditions and computes performance for every power cycle. Once that information is analyzed, the microprocessor activates the required changes. The microprocessor can terminate output power within a



single power cycle if needed. However, it uses more intelligent strategies to prevent unnecessary changes or shutdown due to momentary transients. An area where this is highly effective is in the regulation of equipment with switching power supplies. Switching power supplies, which are popular because of the small size, can cause transients in the AC line power. The PD10VRS have been designed to detect these devices and correct the transients.

Do you need a voltage regulator? It is highly recommended for studios, workstations, boardrooms, and anywhere electronic equipment needs to stay functioning normally.

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	Typical Furman	Typical RR	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	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	15 Amps	15 amps, 1800 watts	15 amps, 1800 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	20 amps, 2400 watts	80 amps, 9600 watts	140 amps, 16,800 watts	15 amps, 1800 watts
Watchdog Circuitry	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Surge Protection	Yes, 3-leg	Yes, 3-leg	Yes, 3-leg	1-leg only	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Audible Protection Alarm	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Rack Lights:	No	Yes	Yes	Yes	Yes	Yes	No	No	Yes	No	Yes	No	No	Yes	No	No	No	
Voltage Meter:	No	No	Yes	Yes	No	Yes	No	No	No	Digital	Digital	No	No	Digital	Digital	No	Digital	
Circuit Breaker, Front Panel:	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Max Number of Outlets:	8	8	8	8	9	11	11	11	9	11	11	2	9	8	14	16	10	
Sequencing:	No	No	No	No	No	No	4-Stage	NO	NO	NO	NO	4-Stage	4-Stage	4-Stage	4-Stage	-	4-Stage	
Filtering:	EM/RFI	EM/RFI	EM/RFI	EM/RFI	EM/RFI	EM/RFI	EM/RFI	EM/RFI	EM/RFI	EM/RFI	EM/RFI	EM/RFI	EM/RFI	EM/RFI	EM/RFI	EM/RFI	EM/RFI	
Noise Attenuation:	Up to 68dB, 150KHz to 100MHz	Up to 68dB, 150KHz to 100MHz	Up to 40dB, 1.5MHz to 200MHz	Up to 20dB, 1.5MHz to 200MHz	Transverse->35dB, 100KHz 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	
Maximum Surge Current (Protects up to...)	65,000A	65,000A	6,500A	4,500A	12,000A	6,500A	12,000A	23,000A	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	450 Joules	102 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	390 VAC	250 VAC	400 V peak	400 V peak	400 V peak	400 V peak	200 VAC	200 VAC	200 VAC	200 VAC	200 VAC	200 VAC	200 VAC	200 VAC	-	495 V peak
Response Time, typical:	<1 ns	<1 ns	<1 ns	N/A	<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	1U	1U	3 Gang Wall	1U	1U	2U	3U	1U	
Dimensions:	19" x 6" x 1 3/4" (WxDxH)	19" x 6" x 1 3/4" (WxDxH)	19" x 8" x 1 3/4" (WxDxH)	19" x 8" x 1 3/4" (WxDxH)	19" x 7 1/2" 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 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	6 lbs	6 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	90 days	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	\$159B	\$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

CALL STARIN MARKETING AT (219) 929-4127 IF YOU HAVE A TECHNICAL QUESTION ON ETA POWER DISTRIBUTION