

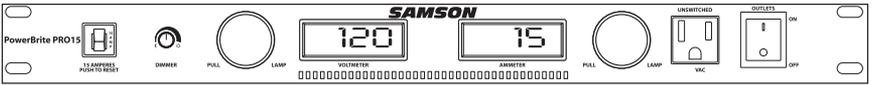
PowerStrip PowerBrite PowerBrite PRO



PS15



PB15



PB15PRO

RACK-MOUNT POWER DISTRIBUTION

Owners Manual

Caution: To reduce the hazard of electrical shock, do not remove cover or back.

No user serviceable parts inside. Please refer all servicing to qualified personnel.



WARNING: To reduce the risk of fire or electric shock, do not expose this unit to rain or moisture.

The lightning flash with an arrowhead symbol within an equilateral triangle, is intended to alert the user to the presence of un-insulated "dangerous voltage" within the products enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

Important Safety Instructions

1. Please read all instructions before operating the unit.
2. Keep these instructions for future reference.
3. Please heed all safety warnings.
4. Follow manufacturers instructions.
5. Do not use this unit near water or moisture.
6. Clean only with a damp cloth.
7. Do not block any of the ventilation openings. Install in accordance with the manufacturers instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. 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 third prong is provided for your safety. When the provided plug does not fit your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on and pinched particularly at plugs, convenience receptacles and at the point at which they exit from the unit.
11. Unplug this unit during lightning storms or when unused for long periods of time.
12. Refer all servicing to qualified personnel. Servicing is required when the unit has been damaged in any way, such as power supply cord or plug damage, or if liquid has been spilled or objects have fallen into the unit, the unit has been exposed to rain or moisture, does not operate normally, or has been dropped.

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Introduction

Congratulations on purchasing your Samson PowerStrip, PowerBrite, or PowerBrite Pro! This manual covers three products: the PowerStrip PS15; the PowerBrite PB15; and the PowerBrite PB15Pro. All three of these single-space rack units provide multiple outlets for reliable power distribution with 3-point surge and spike protection, plus RF (Radio Frequency) filtering. The three products differ in that the PowerBrite and PowerBrite Pro also provide dual front-panel LED lamps (in retractable cylinders), with dimmer control, which can be used to fully illuminate your entire rack of gear. In addition, the PB15 and PB15Pro also provide a rear-panel USB socket to use with the included LED gooseneck lamp so you can see the back of your gear. For advance control, the PowerBrite PB15Pro's feature front-panel voltmeter and ammeter, each with their own large LED display so you can easily monitor the condition of your power source. The steel chassis and solid build construction makes the PowerStrip and PowerBrite series reliable tools on the road or in fixed installations.

In this manual, you'll find a more detailed description of the features of your PowerStrip PS15, PowerBrite PB15, or PowerBrite PB15Pro, as well as instructions for its use and complete specifications. You'll also find a warranty card enclosed—don't forget to fill it out and mail it in! This will enable you to receive online technical support and will allow us to send you updated information about other Samson products in the future. Also, be sure to check out our website (www.samsontech.com) for complete information about our full product line.

With proper care and adequate air circulation, your PowerStrip PS15, PowerBrite PB15, or PowerBrite PB15Pro will operate trouble free for many years. We recommend you record your serial number in the space provided below for future reference.

Serial number: _____

Date of purchase: _____

SPECIAL NOTE: Should your PowerStrip PS15, PowerBrite PB15, or PowerBrite PB15Pro ever require servicing, a Return Authorization number (RA) is necessary. Without this number, the unit will not be accepted. If purchased in the United States, please call Samson at (516) 364-2244 for a Return Authorization number prior to shipping the unit. If you purchased your Samson product outside the United States, please contact your local distributor for warranty information and service. Please retain the original packing material and, if possible, return the unit in its original carton and packing materials.

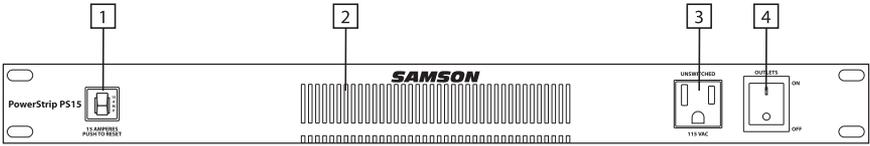
WARNING: Though the PowerStrip PS15, PowerBrite PB15, and PowerBrite PB15Pro all provide both surge and spike protection, they are not designed to protect against major overload situations such as lightning strikes or connection to incorrect voltage supplies. In the event of either occurrence, unplug all connected equipment immediately and have your PowerStrip PS15, PowerBrite PB15, or PowerBrite PB15Pro evaluated by Samson Technical Support or by an authorized Samson service center before using it again.

PowerStrip & PowerBrite Features

The Samson PowerStrip PS15, PowerBrite PB15, and PowerBrite PB15Pro all utilize state-of-the-art technology in power distribution and are engineered to the finest detail. Here are some of their main features:

- Eight switched, rear panel, AC outlets that allow you to power an entire rack's worth of gear from one source. In addition, an unswitched front panel convenience outlet is provided for temporary power needs (such as plugging in a guitar amplifier, soldering iron, etc.).
- Rear panel switched outlets are mounted both vertically and horizontally to accommodate standard 3-pin plugs as well as external transformer AC power adapters.
- 3-point surge protection, spike clamping protection and RF filtering enables all connected equipment to operate with maximum efficiency and minimal noise.
- Front panel, re-settable, 15 amp circuit breaker protects all connected gear.
- An independent dedicated switch with status light for powering the rear panel switched outlets.
- In the PowerBrite PB15 and PowerBrite PB15Pro, dual slide out cylinders containing LED light clusters that illuminate all gear underneath with cool, clear light. In addition, there is automatic switching for turning on the lamps.
- In the PowerBrite PB15 and PB15Pro, a rear panel USB socket to use with the included LED gooseneck lamp providing rear rack lighting.
- In the PowerBrite PB15Pro, a front panel voltmeter and ammeter that allow you to monitor changes in the current drawn from both switched and unswitched outlets.
- All units are designed to be mounted in the top slot of any standard 19" rack, taking only a single rack space.
- Rugged construction that makes the Samson PowerStrip PS15, PowerBrite PB15, and PowerBrite PB15Pro eminently roadworthy and extremely reliably in permanent installation.

PS15 Guided Tour - Front Panel

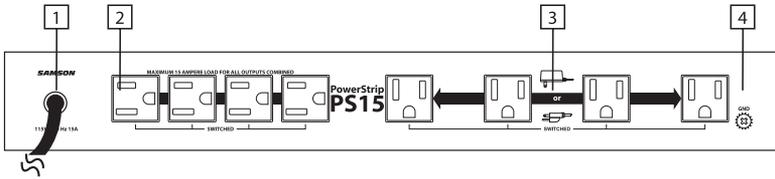


PowerStrip PS15 Front Panel

- 1: Circuit breaker-** This circuit breaker will trip whenever the total load on the PS15 (all rear panel switched outlets plus the front panel unswitched convenience outlet) exceeds 15 amps. To reset it, unplug one or more devices so as to reduce the load and gently press the circuit breaker in until you hear it click.
Note: It may take a minute to cool before you can reset it.
- 2. Vent -** Convection cooling is accomplished by the front panel vent holes.
- 3: Unswitched convenience outlet-** This 3-pin AC outlet is active whenever the PS15 is plugged in, regardless of the setting of the Outlets switch (see #4 below).
- 4: Outlets switch-** Use this to turn the rear panel outlets on or off. When on, the status light inside this switch is lit red.



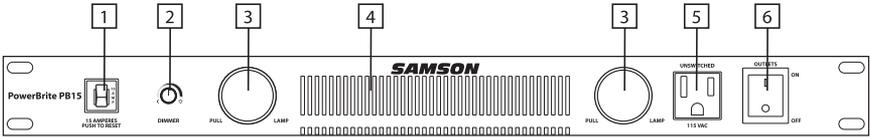
PS15 Guided Tour - Rear Panel



PowerStrip PS15 Rear Panel

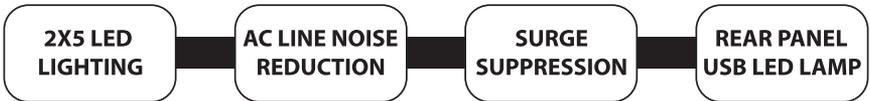
- 1. Power cord** - Heavy Duty, 14 gauge mains power cord.
- 2. Switched AC outlets (horizontal mount)**- Connect external equipment to these standard 3-pin AC outlets, which are turned on and off from the front panel Outlets switch (see #2 on the previous page).
- 3. Switched AC outlets (vertical mount)**- Similar to the AC outlets described in #2 above, these are mounted vertically so as to accommodate external transformer AC power adapters.
- 4. Ground Lug** - Convenient thumb screw for connecting home run grounds.

PB15 Guided Tour - Front Panel

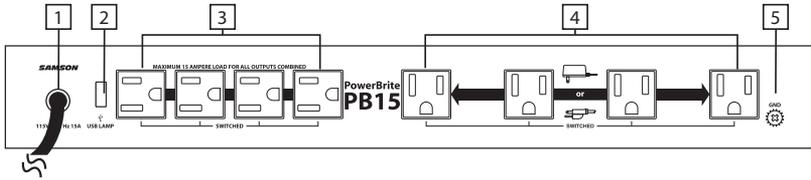


PowerBrite PB15 Front Panel

- 1: Circuit breaker-** This circuit breaker will trip whenever the total load on the PB15 (all rear panel switched outlets plus the front panel unswitched convenience outlet) exceeds 15 amps. To reset it, unplug one or more devices so as to reduce the load and gently press the circuit breaker in until you hear it click.
Note: It may take a minute to cool before you can reset it.
- 2: Dimmer -** Use this to adjust the level of the LED light in the slide-out Lamps.
- 3: Lamps-** Contains the PB15's 5-LED light. Use the Dimmer control (see #2 above) to adjust the brightness of the lamps. To turn off the lamp, gently slide the lamp back in.
- 4: Vents-** Convection cooling is accomplished by the front panel vent holes.
- 5: Unswitched convenience outlet-** This 3-pin AC outlet is active whenever the PB15 is plugged in, regardless of the setting of the Outlets switch (see #6 below).
- 6: Outlets switch-** Use this to turn the rear panel outlets on or off. When on, the lamp inside this switch lights red.



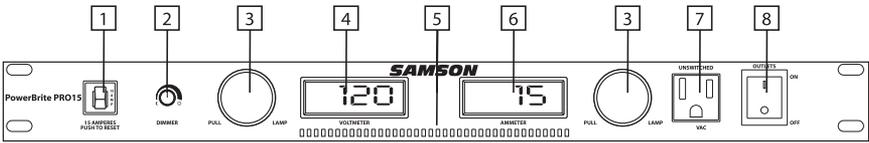
PB15 Guided Tour - Rear Panel



PowerBrite PB15 Rear Panel

- 1: Power Cord** - Heavy Duty, 14 gauge mains power cord.
- 2: USB Socket** - USB type socket for connecting the included USB gooseneck LED lamp.
- 3: Switched AC outlets (horizontal mount)**- Connect external equipment to these standard 3-pin AC outlets, which are turned on and off from the front panel Outlets switch (see #6 on the previous page).
- 4: Switched AC outlets (vertical mount)**- Similar to the AC outlets described in #3 above, these are mounted vertically so as to accommodate external transformer AC power adapters.
- 5: Ground Lug** - Convenient thumb screw for connecting home run grounds.

PB15PRO Guided Tour - Front Panel



PowerBrite PB15Pro Front Panel

1: Circuit breaker- This circuit breaker will trip whenever the total load on the PB15Pro (all rear panel switched outlets plus the front-panel unswitched convenience outlet) exceeds 15 amps. To reset it, unplug one or more devices so as to reduce the load and gently press the circuit breaker in until you hear it click.

Note: It may take a minute to cool before you can reset it.

2: Dimmer - Use this to adjust the level of the LED light in the slide out Lamps.

3: Lamps- Contains the PB15Pro's 5-LED light. Use the Dimmer control (see #2 above) to turn the light on or off. To turn off the lamp, gently slide the lamp back in.

4: Voltmeter- This three digit LED meter shows the amount of voltage in the electrical signal being received by the PowerBrite PB15Pro.

WARNING: Severe voltage swings can cause damage to connected equipment. If you see the voltmeter changing drastically or rapidly, disconnect the PB15Pro until the source of the problem is identified.

5: Vents- Convection cooling is accomplished by the front panel vent holes.

6: Ammeter- This three digit LED meter shows the amount of current being drawn by equipment connected to the PB PB15Pro.

WARNING: Severe current swings can cause damage to connected equipment. If you see the ammeter changing drastically or rapidly, disconnect the PB15Pro until the source of the problem is identified and repaired.

7: Unswitched convenience outlet- This 3-pin AC outlet is active whenever the PB15Pro is plugged in, regardless of the setting of the Outlets switch (see #8 below).

8: Outlets switch- Use this to turn the rear-panel outlets on or off. When on, the status light inside this switch is lit red.

2X5 LED
LIGHTING

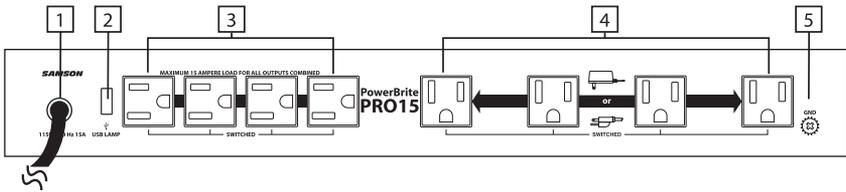
AC LINE NOISE
REDUCTION

SURGE
SUPPRESSION

AMMETER
VOLTMETER

REAR PANEL
USB LED LAMP

PB15PRO Guided Tour - Rear Panel



PowerBrite PB15Pro Rear Panel

- 1: Power Cord** - Heavy Duty, 14 gauge mains power cord.
- 2: USB Socket** - USB type socket for connecting the included USB gooseneck LED lamp.
- 3: Switched AC outlets (horizontal mount)**- Connect external equipment to these standard 3-pin AC outlets, which are turned on and off from the front panel Outlets switch (see #8 on the previous page).
- 4: Switched AC outlets (vertical mount)**- Similar to the AC outlets described in #3 above, these are mounted vertically so as to accommodate external transformer AC power adapters.
- 5: Ground Lug** - Convenient thumb screw for connecting home run grounds.

Setting Up and Using Your PowerStrip or PowerBrite

Setting up your PS15, PB15, or PB15Pro is a simple procedure which takes only a few minutes:

1. Remove all packing materials (save them in case of need for future service) and install the unit in a standard 19" rack. We recommend that the PB15 and PB15Pro be placed in the top slot so that its slide-out LED lamps can be used to illuminate the entire rack of equipment below.
2. Connect the PS15, PB15, or PB15Pro to any standard grounded AC outlet. If you are using a PB15Pro, the front-panel voltmeter and ammeter will show you the incoming electrical voltage and current draw of connected equipment.
3. Connect the AC cables of your rack equipment to the rear-panel switched AC outlets, using the vertically mounted receptacles for external AC transformer power adapters.
4. Make sure all connected equipment is switched off, then press the front panel Outlets switch so that its status light is lit red. This activates all rear panel switched outlets.
5. Turn on all connected equipment, one at a time. If the total load exceeds 15 amps, the front-panel circuit breaker will trip. To reset it, unplug one or more devices, then press in the front panel circuit breaker.
6. You can also use the unswitched front panel convenience outlet for additional temporary power needs (such as connecting a guitar amplifier, soldering iron, etc.). This outlet is fully operational whenever the PS15, PB15, or PB15Pro is plugged into an AC source, regardless of the position of the front panel Outlets switch. The front panel circuit breaker affects this outlet as well as all rear-panel switched outlets.
7. (PB15 and PB15Pro only) - To illuminate the equipment in your rack, gently pull the front-panel slide-out cylinders out towards you. The lamps will switch on automatically. You can also illuminate the back of your rack by connecting the included USB gooseneck LED light.

Appendix A: LED Or Incandescent?

There are numerous advantages to using the kind of LED (light emitting diode) lighting provided by the PowerBrite PB15 and PowerBrite PB15Pro over the incandescent lighting provided by competing rack light products. Here are the main points to consider when making your purchase:

- LED lights generate almost no heat at all; incandescent bulbs can generate large amounts of heat.
- LED lights last approximately 50% times longer than incandescent ones, with a typical life of 100,000 hours (as opposed to incandescent lights, which rarely last more than about 2,000 hours).
- LED lights are brighter than incandescent ones and when properly arranged, they deliver much greater light level.
- The quality of our LED light is similar to daylight, while incandescent lights impart a yellowish, artificial glow.
- Taking your rack on the road? LED lights travel better than incandescent ones because the LED has no delicate filament or glass that can break from mechanical shock or vibration.

Specifications

Electrical:

Number of Outlets PS15, PB15, PB15Pro	8 switched, 1 unswitched
Max. Current	15 Amp (circuit breaker protected)
Input Voltage (RMS)	0 to 130 Vac continuous
Spike Protection Mode	Hot to Neutral, Hot to Ground, and Neutral to Ground
Max. Clamping Voltage (@ 50 A)	340 Vac
Response Time	1 nanosecond
Max. Surge Current	6,000 Amps (8 x 20 μ s pulse)
Max. Spike Energy	70 Joules per leg
Noise Attenuation	>20 dB, 1.5 MHz to 200 MHz
Power Cord	Attached, 14 gauge
LED Light Life (Typical)	100,000 Hours

General:

Dimensions	19 in. (w) x 7.5 (d)x 3.5 (h) 482 mm (w)x 190 (d) x 88 (h)
Weight	
PS15	5.0 lbs. • 2.27 kg
PB15	6.5 lbs. • 2.95 kg
PB15PRO	7.0 lbs. • 3.18 kg

Specifications are subject to change without notice.

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