



# SOUND ASSOCIATES, INC.

## INFRARED EMITTER POWER SUPPLY

- PS24

The PS24 is a low voltage, infrared emitter power supply for new and existing infrared emitter panels. The PS24 is a regulated 24 to 30 volt power supply that can power up to four Sound Associates SA611, two SA612 or one SA613 and one SA611 emitter panels. This emitter power supply combines low voltage with a modulated audio signal supplied by an infrared transmitter. The emitter and power supply are connected via a single two-conductor, shielded cable terminated at the power supply with either a 5-pin XLR connector or bare wire. This single cable supplies a modulated audio signal and power to the emitter, eliminating the need for an electrical outlet at each emitter location. The PS24 is equipped with linear power supply, rated higher than industry standards and a forced air cooling system designed to ensure years of quality performance.

SA600 Series  
Infrared Listening System



### Features:

- Worldwide AC input, capable of operating on either 120 VAC at 60 Hz or 240 VAC at 50 Hz; switchable via internal connection.
- Internal Power One power supply meets domestic and foreign safety standards: UL, CSA, IEC, VDE, BPO, ECMA, and CEE.
- Low output ripple.
- Internal power supply rated at >85 Watts.
- Supply can be linked with existing infrared transmitter via BNC connection.
- Half-rack space design allows power supply to mount side-by-side with 600 Series infrared transmitters in a standard 19" rack.
- High level push-pull output stage capable of driving long cable runs with no signal loss.
- Includes BNC-003 three foot RG59u BNC to BNC cable.
- Full three-year warranty.

### Accessories:

- RK1 - single unit rack mount
- RK2 - double rack mount kit
- BNC003 - RG59u BNC to BNC cable (3 ft.)

424 West 45th Street, New York, NY 10036 TEL: 212-757-5679

**TOLL FREE 888-772-SOUND** (888-772-7686)

[www.soundassociates.com](http://www.soundassociates.com)



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## Technical Specification:

Modulation	Connector Number of inputs/outputs (links)	Chassis mount BNC 2
Output	Connector Number of outputs Wiring of 5-pin XLR Wiring of terminal strip Output voltage Load regulation Output ripple Short circuit and overload protection Fuse	5-pin female XLR/terminal strip (2) 5-pin female XLR/terminal strips 1, 2 - ground; 3 - signal; 4, 5 - positive DC 1 - ground; 3 - signal; 5 - positive DC 24-30 $\pm$ 0.5 VDC $\pm$ 0.05% for a 50% load change approximately 3.6 mV PK-PK maximum Automatic current limit/foldback T2.5 A (5 x 20) located on back panel
Power	Power Power consumption with (4) SA611 emitters Fuse	120/240 ACV internally switchable < 60 W T250 mA (5 x 20 mm) @ 120V; T125 mA @ 240 V internal
Mechanical	Mechanical dimensions Weight Finish/material	8.5" w x 3.5" h x 9" d 9lbs. Black anodized aluminum

## Engineering/Architectural Specification:

The emitter power supply shall provide 24-30  $\pm$  0.5 volts DC plus  $\pm$  0.05% for 50% load change with a stability of  $\pm$  0.3% for 24 hours after warm-up. The power supply shall consist of an internal regulated linear power supply rated for > 85 watts with an output ripple of 3.6 mV peak to peak maximum and automatic current limit/foldback overload protection. The modulated audio input and output (link) connection shall be made via a BNC style connector. The modulated audio output plus DC voltage shall be made via 5-pin XLR connectors or bare wire. The power supply shall be able to operate with a power source of 120 VAC or 240 VAC  $\pm$  10%, -13%, 47-63 Hz with a power consumption of 15-75 watts. The dimensions shall be 8.5" wide by 3.5" high by 9" deep with a net weight of 9 lbs. A rack mount shall be made available, as an option, to rack unit side by side or stand alone in a 19" standard equipment rack. The emitter power supply shall be the Sound Associates PS24.

## Warranty

The PS24 infrared emitter power supply is covered by a full three-year warranty, from the original date of purchase, against defects in workmanship or materials. If any component fails due to defects in craftsmanship or materials, we will repair or replace the component without charge. The factory warranty does not cover malfunctions due to abuse or operation other than specified.

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