



Intercom for Sound, Lighting and Production Professionals



PS300 Intercom Power Supply



1. The PS300 is a 3-circuit Power Supply with a unique hybrid configuration. Microprocessors operate all the switching, routing, and supervision functions, while the audio paths and the core power supply remain analog. The result is a station with unrivaled flexibility, muscular reliability, and clean, smooth audio.
2. The PS300, as in all the 300 series master stations and power supplies, has a large toroidal transformer which gives off virtually no stray-field radiation to interfere with the other devices with which it shares rack space.
3. Those power supply components which create heat are mounted on a massive heat sink, and, when necessary (rarely) get extra cooling from a thermally regulated cooling fan.
4. Each of the 3 PS300 circuits is independent of the others, except for sharing the toroidal transformer and the rectifier. Therefore, a problem on one circuit does not affect the others. When a circuit problem occurs, and is eliminated, the PS300 resumes normal operation without re-booting.
5. The monitoring and control functions include automatic adjustment of the termination impedance when the circuits are combined, adjusting to brown-outs or sudden drops in line voltage, monitoring the temperature of the heat sink and switching the cooling fan on when required, and reporting the status of each circuit to LED indicators on the front panel:
The top, green LED reports that 24VDC is being delivered to the system.
The lower 3 LEDs are green when that circuit OK, and become red when it is experiencing an overload and or short circuit and therefore has been shut down until the problem is solved.
6. The transformer has primary windings for both 120VAC and 240VAC (50/60 Hz) and allows wide deviation from those voltages without any effect on performance. At as low as 100VAC, the secondary voltage will remain at 24VDC while the available current will be slightly reduced from 2.4A continuous to 2.0A continuous. The voltage and fuse are changed on the rear panel.
7. The components and microprocessor which monitor and adjust the power supply's performance are separately mounted on their own circuit board, as far as possible from any heat source.
8. The PS300 can be used with any unbalanced 200 Ohm party-line intercom components.
9. Each circuit has a DIP switch on the rear panel for lifting the termination circuit. This is only needed when the PS300 is augmenting a system which already has a termination circuit.

Specifications: (subject to change without notice)
 Current draw (at 120VAC): 0.14A (no load), 1.05A @ 2.4A DC out
 Power output: 24 volts DC regulated @ 2.4A continuous
 Line termination: DC: 5KW; 50Hz-20KHz: 200W
 Size (excluding ears) : 17" width x 9.5" depth x 1.75" height (432 x 241 x 44.5 mm)
 Weight: 9.8lbs. 4.5Kg



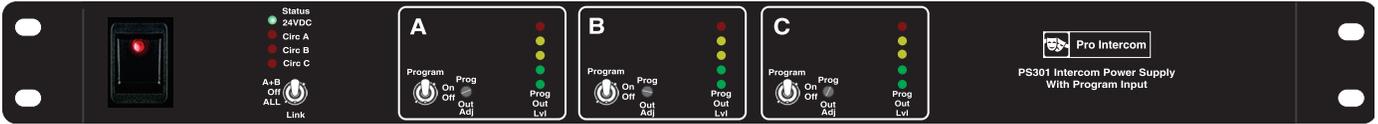
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PS301 Intercom Power Supply with Program Audio Input



1. The PS301 is a 3-circuit Power Supply with a unique hybrid configuration. Microprocessors operate all the switching, routing, and supervision functions, while the audio paths and the core power supply remain analog. The result is a station with unrivaled flexibility, muscular reliability, and clean, smooth audio.
2. The PS301, as in all the 300 series master stations and power supplies, has a large toroidal transformer which gives off virtually no stray-field radiation to interfere with the other devices with which it shares rack space.
3. Those power supply components which create heat are mounted on a massive heat sink, and, when necessary (rarely) get extra cooling from a thermally regulated cooling fan.
4. Each of the 3 PS301 circuits is independent of the others, except for sharing the toroidal transformer and the rectifier. Therefore, a problem on one circuit does not affect the others. When a circuit problem occurs, and is eliminated, the PS301 resumes normal operation without re-booting.
5. The monitoring and control functions include automatic adjustment of the termination impedance when the circuits are combined, adjusting to brown-outs or sudden drops in line voltage, monitoring the temperature of the heat sink and switching the cooling fan on when required, and reporting the status of each circuit to LED indicators on the front panel. The top, green LED reports that 24VDC is being delivered to the system. The lower 3 LEDs are green when that circuit OK, and become red when it is experiencing an overload and or short circuit and therefore has been shut down until the problem is solved.
6. The transformer has primary windings for both 120VAC and 240VAC (50/60 Hz) and allows wide deviation from those voltages without any effect on performance. At as low as 100VAC, the secondary voltage will remain at 24VDC while the available current will be slightly reduced from 2.4A continuous to 2.0A continuous. The voltage and fuse are changed on the rear panel.
7. The components and microprocessor which monitor and adjust the power supply's performance are separately mounted on their own circuit board, as far as possible from any heat source.
8. The PS301 can be used with any unbalanced 200 Ohm party-line intercom components.
9. Each circuit has a DIP switch on the rear panel for lifting the termination circuit. This is only needed when the PS301 is augmenting a system which already has a termination circuit.
10. There are 3 DIP switches on the rear panel for lifting the termination circuits. This is only necessary when the PS301 is being used to augment a system which already has a termination circuit.

Specifications: (subject to change without notice)
 Current draw (at 120VAC): 0.14A (no load), 1.05A @ 2.4A DC out
 Power output: 24 volts DC regulated @ 2.4A continuous
 Line termination: DC: 5KW, 50Hz-20KHz: 200W
 Aux. input: Mic level: (-44dBm) 48K Ohm, Line level (-24dBm): 1K Ohm
 Size (excluding ears) : 17" width x 9.5" depth x 1.75" height (432 x 241 x 44.5 mm)
 Weight: 9.8lbs. 4.5Kg



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Affordable 2 to 10 station Systems

- ✓ Performance
- ✓ Durability
- ✓ Value
- ✓ Compatibility

Performance: An econocom system consists of: 1) a table-top (AD2410) AC adaptor with removable IEC power cord, and a cable with connector which connects the AD2410 to the PS4 interface box, and; 2) a PS4 system interface. These two devices, taken together, are the system's power supply. Also included are two, three or four of our standard *full-featured* BP1 belt packs, and a headset, with connector, for each belt pack. The systems are also available without headsets. **The system does include a signal light feature.**

The econocom power supply components are not intended to be used in systems which include more than two loudspeaker stations or stage manager stations, and do not provide multiple circuits. **One to six more BP1 belt packs (for a maximum total of ten) may be added to the system without creating hum or overheating the power supply components.** Older belt-packs, particularly those with incandescent (rather than LED) signal lamps should be added with caution as they draw much more current. The AC adaptor provides up to 1.0A of current at a nominal 24VDC. It is UL[®] CE and CSA[®] approved. It has universal input, operating at any voltage from 100 to 240VAC at either 50 or 60 HZ. The PS4 system interface provides precise voltage regulation, further smoothing of the DC current (AC hum elimination), automatic overload/short-circuit protection, the necessary termination network for the intercom circuit, an LED indicator which indicates that 24VDC is being delivered, and 3 paralleled XLR jacks for connection of headset stations or strings of stations in a party-line configuration. **The components of an econocom system are connected together using standard 2-conductor shielded microphone cables fitted with 3 pin XLR connectors (male/female).** The PS4 has three outlets which are in parallel and the BP1s have a male and a female XLR for connecting to the PS4 and for looping onwards to the next BP1.

Durability: The ribbed, extruded aluminum case, polypropylene end bezels, internal support system for the PC boards, and best quality XLR connectors all contribute to the outstanding ability of the system components to withstand rough usage.

Value: The comparatively low price of an econocom system is made possible by the minimized assembly costs resulting from simplicity of construction. Simple construction also affords the use of higher quality components, and increases the ease (thus lowering the cost) of servicing.

Compatibility: The econocom AC adaptor and PS4 system interface are fully compatible with Clear-Com[®] and other popular (200 unbalanced) party-line headset intercom systems.

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PS3 Battery Adaptor

- ✓ Performance
- ✓ Durability
- ✓ Value
- ✓ Compatibility

Performance: The PS3 provides the facilities necessary to power your cabled intercom system from batteries. Typically, a pair of 12V batteries are wired in series to provide 24V, then connected to the PS3. Best because of size, weight, and recharge-ability, are computer UPS or motorcycle batteries, but auto or even lantern batteries may be used. Time between recharging will depend upon the number of stations connected, but as an example, a pair of 150 Ampere/Hour batteries would power ten belt packs, with their signal lights constantly On, for over 1000 hours.

The front panel contains a pair of binding posts for attachment of the batteries, and a high-quality circuit breaker which acts as the On/Off switch and limits the current which may be drawn by the system from the batteries to a safe 1.0 Amp. Although the binding posts are colored red and black, an internal circuit corrects reverse polarity. The rear panel contains three 3-pin male XLR-type connectors, wired in parallel, for connecting belt packs or other stations to the system. The PS3 provides the *necessary termination circuit* for the audio line, to maintain stability as stations are added or removed from the system.

Durability: The ribbed, extruded aluminum case; glass-filled nylon end bezels; internal support system for the PC board; best-quality XLR-type connectors, and; recessed controls, all contribute to the outstanding ability of the PS3 to withstand rough usage.

Value: The comparatively low price of the PS3 is made possible by the minimized assembly cost resulting from simplicity of construction. Simple construction also affords the use of higher quality components, and increases the ease (thus lowering the cost) of servicing.

Compatibility: The PS3 is plug-in compatible with Clear-Com[®] and other popular headset intercom systems.

Technical Specifications: (Subject to change without notice)

Power requirement: 12~24 VDC from batteries

Dimensions: 3.70x4.30x2.50in (93.98x109.22x63.5 mm.)

Power output: 1.0 Amp maximum, 30V peak, smoothed (ripple free)

Weight: 14.5 oz (0.411 Kg.)

Audio bridging impedance: 200 Ω unbalanced.

Batteries are NOT provided.

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Printed in U.S.A.

Rev.3_05.13