

PS-704 Intercom Power Supply

Analog Partyline Solutions

Linking
People
Together



PS-704

Key Features and Benefits

- 1 rack space high
- Provides up to 2 amps total power
- Supports up to 40 beltacks, 10 speaker stations or 12 headset stations
- 1-4 channels of intercom with individual channel power protection
- Automatic short circuit protection and reset for each channel
- “Short” power indicator LED’s for each channel
- Program input with selectable channel assignment and individual channel level controls
- Can be paralleled with other power supplies and main stations for increased capacity or backup support
- Switchable terminations on each channel
- Unitized chassis construction for strength and durability
- Universal power supply accepts 100 - 240V AC

Clear-Com Encore® is an intuitive, robust, plug-and-play partyline intercom system with high-quality “Clear-Com Sound”.

Description

The PS-704 is a four-channel, single-rack-space intercom power supply. The power supply delivers two amps at 30 volts, supplying power for one to four channels of intercom. It will support up to 40 beltacks, ten speaker stations or 12 headset stations.

In the event of a DC short circuit or current overload on a channel, the electronic overload protection circuit will shut down the DC output to that channel. The other channels will continue operating normally. As soon as the fault condition is removed the “auto-reset” circuitry will automatically restore system power, even under full load conditions. Unlike other intercom systems, there is no need to disconnect remote stations to allow the power supply to reset.

For increased system capacity or backup redundancy, two or more power supplies can be connected in parallel. In addition to providing system operating power, the PS-704 powers four channels of intercom with switchable line terminations for each channel. Two parallel XLR connectors per channel are provided. The power supply connects to remote stations with standard 2-conductor shielded mic cable.

The PS-704 accepts a line-level program input signal, with a global input-level control. Front-panel-mounted program on/off switches and level controls for each channel allow the user to feed program audio to any or all of the intercom channels.

The DC power status of each channel may be monitored with the individual “short” LED’s. If a channel is overloaded or develops a short, the LED for that channel will light. The unit’s universal power supply will accept input voltages between 100 and 240V AC.

Unitized chassis construction of heavy-gauge aluminum and an extra-thick front panel create a rugged, durable steel, able to withstand the rigors of portable use.

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Technical Specifications

dBu is an absolute measurement. OdBu is referenced to 0.775 volts RMS

Program Line Input

Maximum Level Before Clipping: ≥ 20 dBu

Input Impedance: $\geq 5K$

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Frequency Response

Program Input - Partyline: 200 - 20kHz ± 3 dB

Max Distortion

Program Input - Partyline: $\leq 0.2\%$

Noise

Program Mic Input - Partyline: < -70 dBu

Max Gain

Program Input - Partyline: ≥ -16 dB

Min Gain

Program Input - Partyline: ≤ -20 dB

Mains Power

Input Voltage Range: 100 - 240V AC

Input Frequency Range: 50 - 60Hz

Input Power: ≤ 60 W AC

Output Voltage: 30V DC ± 0.5 V

Output Current Per Channel (Continuous): 1.2A

Output Current Per Channel (Peak): 2A

(Do not exceed the 1.2A rating for more than 2 seconds per 1 minute period)

Short Circuit Recovery Time (1st short): ≤ 0.5 seconds

Short Circuit Recovery Time: ≥ 20 shorts in 20 seconds ≤ 20 seconds

Station Capacity

Up to 40 RS-701 beltpacks or 10 speaker stations or 12 headset stations distributed over both channels

Rear Panel Connectors

Intercom: (8) XLR-3M (2 per channel)

Program: (1) XLR-3F

AC Power: IEC 320 connector

Rear Panel Controls

(4) Termination On-Off switches

(1) Volume control

Front Panel Controls & Indicators

(4) Program switch

(4) Send level controls

(4) Overload LEDs

(1) Power indicator LED

(1) Power switch

Environmental

32° - + 122°F (0 - + 50°C)

Dimensions

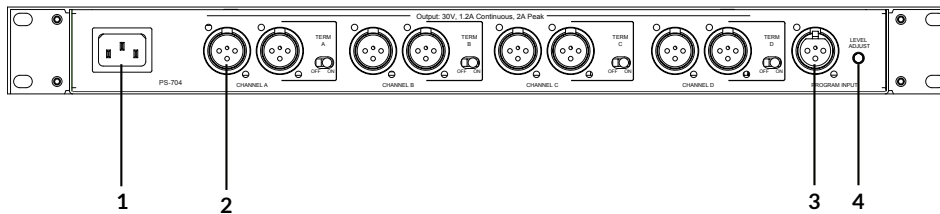
19 x 1.75 x 7.5in (WxHxD)

(483 x 44 x 190mm)

Weight

6.16lbs (2.80kg)

PS-704 Back Panel



Legend

Back

1. AC Power Supply Input
2. Intercom line connector
3. Program Input
4. Program Input Level

Order Codes

PS-704

