

PS-702 Two-Channel Intercom Power Supply

Analog Partyline Solutions

Linking
People
Together



PS-702

Key Features and Benefits

- Provides up to 2 amps in only 1RU
- Supports up to 40 beltacks, 10 speaker stations or 12 headset stations
- Exclusive IFOS Intelligent Fault/Overload Sensing for system reset
- Front panel intercom line jack selectable for either channel
- A+B Link switch for single channel operation
- Balanced program input with global and individual channel controls
- Universal power supply accepts 100-240V AC
- Overload/fault indicator for each channel
- Built-in test tone generator for set up and diagnostics
- Switchable terminations for each channel
- Works in parallel with other power supplies and main stations

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

Description

The PS-702 can supply up to two amps at 30 volts DC to two channels in a 1RU. This is sufficient to power up to 40 beltacks, ten speaker stations, or 12 headset stations even under the most demanding conditions. Either channel is capable of supplying up to 1.2 amps. The full current capacity may be divided between the two channels.

The PS-702 displays whether there is a short or an overload. If either of these issues occur, each channel’s DC overload/fault LED identifies the power supply’s response. If the LED is solid, an overload has been sensed but the unit is still being powered. If the LED is blinking, power has been temporarily cut to protect the power supply. If both channels are operating and one channel has a fault, the other channel will continue to operate normally. Power can be restored to the shorted or overloaded channel within 0.5 seconds or more. With Intelligent Fault/Overload Sensing (IFOS), the PS-702 dynamically increases this time period before attempting another reset until the fault or overload is corrected. There is no need to disconnect stations for the power supply to reset.

The unit also powers a front panel intercom line jack, switchable to either channel. A 440Hz tone is available on either or both channels for system diagnostics and set-up. Two or more units can be connected in parallel for increased system capacity or backup redundancy. Multiple units will automatically synchronize their response to power faults and overloads. The PS-702 can also operate as a single channel unit by using the front-panel A+B link switch.

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Technical Specifications

dBu is an absolute measurement. 0dBu is referenced to 0.775 volts RMS

Program Line Input

Maximum Level Before Clipping: ≥ 20 dBu
Input Impedance: $\geq 5K$

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 V 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: (6) XLR-3M (3 per channel)

Program: (1) XLR-3F

AC Power: IEC 320 connector

Rear Panel Controls

(2) Termination On-Off switches

(1) Volume control

Front Panel Connectors

Intercom (1) XLR-3M

Front Panel Controls & Indicators

(1) Intercom channel switch

(1) A+B link switch

(2) Program switch

(2) Send level controls

(1) Test tone switch

(2) Overload LEDs

(1) Link indicator LED

(1) Power indicator LED

(1) Power switch

Environmental

32° - + 122°F (0° - + 50°C)

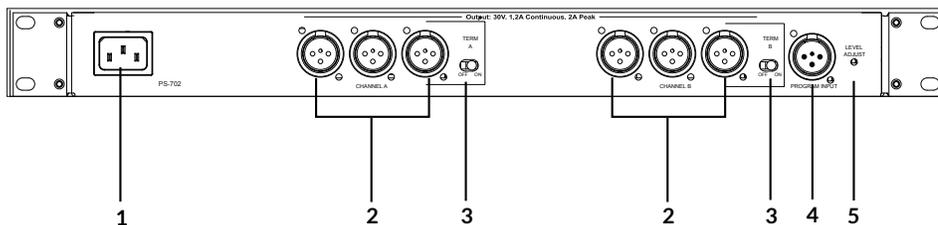
Dimensions

19 x 1.75 x 7.5in (WxHxD)
(483 x 44 x 190mm)

Weight

6.16lbs (2.80kg)

PS-702 Back Panel



Legend

Back

1. AC power supply input
2. Intercom line connectors
3. Termination and On-Off Switches
4. Program input
5. Audio adjust

Order Codes

PS-702



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