PS-704 Front Panel

The PS-704 is a four-channel, single-rack-space intercom power supply that features Clear-Com's "fail-safe" design for maximum reliability. The power supply delivers 2 amps at 30 volts, supplying power for one to four channels of intercom. It will support up to 40 beltpacks, 10 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 offers 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 240 VAC, for trouble-free use anywhere.

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.

The PS-704 conforms to the highest standards of performance, providing trouble-free service over a wide range of environmental conditions.
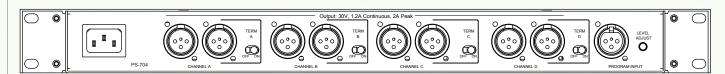
Features:

- Only one rack space high
- Provides up to 2 amps total power
- Supports up to 40 beltpacks, 10 speaker stations or 12 headset stations
- One to four 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 - 240 VAC
- UL listed and CE certified.

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PS-704 Rear Panel

Technical Specifications:

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

Program Line Input
Maximum Level before Clipping: >= 20dBu
Input Impedance: $>= 5K\Omega$

Frequency Response
Program Input - Party Line: 200 - 20KHz ± 3dB

Max Distortion
Program Input - Party Line :   <= 0.2%

Noise
Program Mic Input - Party Line: < -70dBu

Max Gain
Program Input - Party Line: >= -16dB

Min Gain
Program Input - Party Line: <= -20dB

Mains Power
Input Voltage Range:	100 - 240 VAC
Input Frequency Range:	50 - 60 Hz
Input Power :	<= 60 VAC
Output Voltage:	30 VDC ± 0.5V
Output Current per Channel (Continuous):	1.2 A
Output Current per Channel (Peak):	2 A (Do not exceed the 1.2A rating for more than 2 seconds per 1 minute period)

Short Circuit Recovery Time
(1st short):   <= 0.5 sec
Short Circuit Recovery Time: >= 20 shorts in
                                20sec) <= 20 sec

Station Capacity
Up to 40 RS-601 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 in. W x 1.75 in. H x 7.5 in. D
(483 mm x 44 mm x 190 mm)

Weight
6.16 lbs. (2.80 kg)

Notice About Specifications
While Clear-Com makes every attempt to maintain the accuracy of the information contained in its product manuals, that information is subject to change without notice. Performance specifications included in this manual are design-center specifications and are included for customer guidance and to facilitate system installation. Actual operating performance may vary.

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