



PS-22 Front Panel

FEATURES

- **Light, small, rugged, and portable, with carry handle**
- **“Intelligent” power sensing**
- **Provides system power, line termination, and program feeds for 2-channel system**
- **Automatic short-circuit protection and reset**
- **“Short” and “Good” power indicators**
- **Front-panel “Link” switch to operate as one-channel system**
- **Program input with selectable channel assignments and individual level controls**
- **Can be paralleled with other power supplies and main stations for increased capacity or backup support**
- **One-amp power supply capacity**
- **Switchable 115/230 VAC**
- **Portable or rackmount**
- **UL approved**

DESCRIPTION

The PS-22 power supply supports two intercom channels containing up to 30 headset stations or 10 speaker stations. The PS-22 features Clear-Com’s fail-safe power-supply design for maximum reliability.

In the event of a DC short circuit or current overload, the PS-22’s electronic overload protection circuit will instantly shut down the DC output to avoid damage. As soon as the fault condition is removed, the auto-reset circuitry will automatically restore system power, even under full load conditions. There is no need to disconnect stations to allow the power supply to reset.

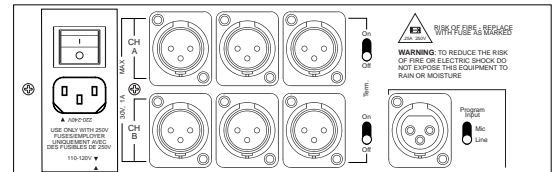
The portable PS-22 is capable of delivering 1 amp at 30 volts. Two or more power supplies can be connected in parallel for increased capacity. In such configurations, the PS-22’s intelligent power-sensing capability enables the system to automatically reset itself in the event of a DC short or AC power loss anywhere in the system, no matter how many power supplies the system contains. You need *never* disconnect and reconnect remote stations to restore power to the entire system.

The PS-22 provides, in addition to system operating power, two channels of intercom. It also provides a convenient front-panel “link” switch to operate as a one-channel system.

The PS-22 also accepts a balanced program input, selectable for microphone or line-level signals, that can be sent to either or both channels, mixing with the intercom signal.

The front panel of the PS-22 includes two program on/off switches and level controls, the channel-link switch, and the “short” and “OK” DC power-status LED.

The PS-22 rear panel provides XLR intercom-line connectors for each channel, two intercom-line termination switches, an AC-mains power-connector block with power on/off switch, one XLR program-input connector, and a program mic/line select switch.



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SPECIFICATIONS

POWER SUPPLY

Output power: +30 VDC, ±1 V
 Output Current: 1 amp
 Reset Current: 1 amp
 Hum & Noise: <-70 dBv
 Station Capacity: 30 headset stations or 10 speaker stations

PROGRAM AMPLIFIER

(Transformerless, balanced differential input)

Input Level,

Mic: -65 dBv
 Line: -15 dBv

Input Impedance,

Mic: >1 kΩ
 Line: 100 kΩ

Frequency Response: 150 Hz - 18 kHz, ±2 dB

SYSTEM SPECIFICATIONS

Intercom Line Length: 5,000 ft. maximum
 Intercom Line Length for Crosstalk <-52 dB:
 500 ft. maximum
 Stations Per Intercom Line: 100 maximum
 System Frequency Response:
 150 Hz - 18 kHz, ±2 dB

The PS-22 connects to remote stations with standard, two-conductor shielded mic cable. With the optional rackmount kit, the power supply can mount in a standard 19" equipment rack, requiring only two rack units.

The PS-22 conforms to the highest standards of reliability and performance, providing trouble-free service over a wide range of environmental conditions. It can be mounted in an enclosed rack since it can tolerate an ambient temperature of 120°F without failure.

REAR-PANEL CONNECTORS

Intercom: (6) XLR-3M (3 per channel)
 Program: (1) XLR-3F

REAR-PANEL SWITCHES

Power on/off: 1
 Termination on/off: 2
 Mic/line select for program input: 1

AC POWER REQUIREMENTS

105 - 125/210 - 250 volts, 50 - 60 Hz, 60 VA

DIMENSIONS

3" H x 8.12" W x 10" D (76 x 206 x 254 mm)

WEIGHT

4.7 lbs. (2.1 kg)

All specifications are subject to change without notice.

** 0 dBv is referenced to 0.775 volts RMS*

PS-22 BLOCK DIAGRAM

