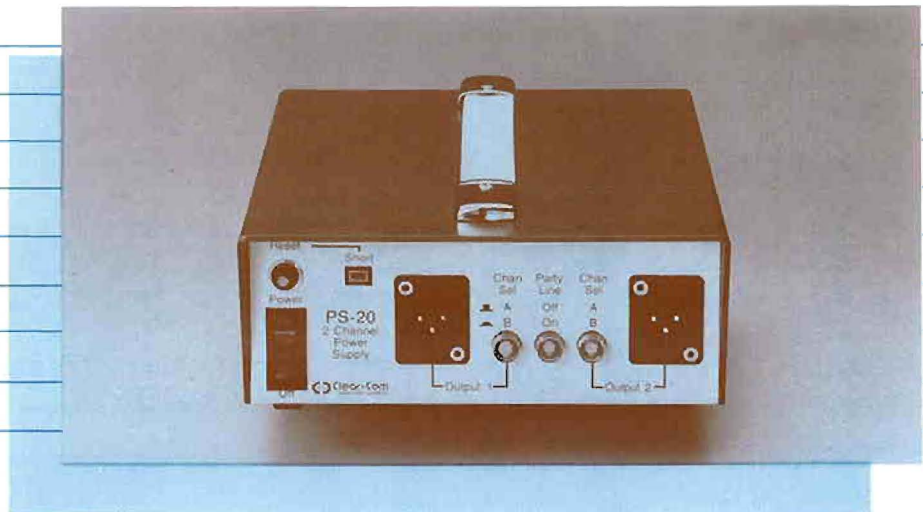


P O W E R S U P P L Y



PS-20 TWO-CHANNEL POWER SUPPLY

FEATURES

- Supports up to 60 Remote Stations
- Provides two channels of two-way communications
- Line-and-load regulation & over-voltage protection
- Compatible with all Clear-Com Intercoms
- Operates from 105-125 VAC or 210-260 VAC
- Can be paralleled with other Power Supplies/Main Stations for increased system capacity & back-up support
- Heavy-duty construction
- Portable, lightweight, weather-resistant enclosure
- Available with optional rackmount kit



DESCRIPTION

The PS-20 is a fail-safe, portable power supply that provides two separate channels for smaller Clear-Com Systems. It supplies 30 volts at one ampere (total for both channels) and terminates each channel. The PS-20 provides circuit-breaker protection against shorts in the cabling. In addition, over-voltage protection saves the system in the rare case of internal power supply failure.

The PS-20 provides power for up to 60 remote headset stations or 12 remote speaker stations. It features a Short Circuit Indicator Lamp and a Circuit-Breaker Re-set Button. If there is a short circuit or wire reversal in the system cabling, the lamp will light. Pressing the button after the short is removed instantly restores normal operation.

The PS-20 front panel has two 3-pin, XLR connectors for output to remote stations located near the Power Supply; each connector is switch-selectable to Channel A or Channel B (Party-Line). A third switch combines both channels while maintaining proper termination. The PS-20 rear panel provides four 3-pin, male XLR connectors for intercom output to the system (two in parallel for Channel A, the same for Channel B).

The Power Supply connects to remote stations with standard, two-conductor shielded mic cable.

The PS-20 satisfies the highest standards of reliability and

performance, providing trouble-free service over a wide range of environmental conditions. It can tolerate an ambient temperature of 32-140°F without failure.

ACCESSORY

Rack Mount Kit

Adapts PS-20 enclosure to rack-mount type chassis; fits in standard 19" equipment racks.

SPECIFICATIONS

POWER SUPPLY:

Output Voltage: 30 VDC, regulated

Output Current: 1 amp max

Load Regulation: 30V±1V at .5a, 26V at 1a

Line Regulation: ±.1V from 105-125 VAC line voltage

Ripple: <3mV

Protection Circuits: Circuit breaker and overvoltage crowbar in DC circuit, fuse in primary transformer.

Connections: Provides two 3-pin male XLR connectors per channel on rear panel. Two additional front panel connectors may be switched independently to either channel. A front panel switch combines both channels while maintaining proper termination.

SYSTEM SPECIFICATIONS:

System Impedance: 200Ω

System Level: -15dBv nominal, 0dBv before clipping*

System Capacity: Will support 60 headset or 12 speaker stations

POWER REQUIREMENTS: Line voltage 105-125 or 210-250 VAC, 50-60Hz, selectable from rear panel. 60 VA max

ENVIRONMENTAL: Operating temperature range 0-50°C (32-122°F)

DIMENSIONS: 8 11/16" W x 9 7/16" D x 2 5/8" H (170mm W x 240mm D x 67mm H)

Specifications subject to change without notice

*0 dBv is referenced to 0.775 volts rms.

ARCH/ENG SPECS

The power supply shall be a solid state two channel portable unit. It shall provide an output of 30 volts DC, regulated, with a maximum current capacity of 1 ampere. The power supply shall have line and load regulation and overvoltage protection. It shall have short circuit protection and a front panel LED indicator, which shall light only when the circuit breaker trips in response to a short. The power supply shall resume normal operation as soon as the short is cleared and the circuit breaker is reset. The power supply shall have the capacity to power 60 headsets or 12 speaker stations. Two separately terminated audio channels shall be provided (A and B). A front panel switch shall combine the two channels into one while maintaining proper 200Ω termination in either combined or separate mode. The unit shall have four male 3-pin XLR-type connectors on the rear panel, two for each channel. On the front panel, two additional XLR connectors shall be independently switchable to either channel. The power supply shall operate on an AC line voltage of 105-125 or 210-250 VAC, 50 to 60Hz,

switch-selectable from the rear panel. The maximum power consumption shall be 60 watts. Its operating temperature range shall be 0-50°C (32-122°F). Its dimensions shall not exceed a width of 6.70", a depth (front to back) of 9.44", and a height (excluding feet) of 2.62". It shall weigh no more than 4.5 lbs. It shall have all necessary controls and connectors for compatible operation with Clear-Com products, and shall be called a Clear-Com PS-20.

PS-20 BLOCK DIAGRAM

