



## PS-20

### Power Supply

The RTS PS-20 is the new flagship of a complete independent TW power supply. The PS-20 features two- and four-channel operation, RTS monitoring, two-channel program input, audio linking, and three-mode operation: RTS 2-channel, RTS 4-channel and Clear-Com mode. It also has double the power output of the PS-31 per channel, which will increase the number of user stations and beltpacks which can be connected substantially.

The PS-20 features two channels of communication where both channels are “wet”, meaning there is power on each channel (RTS two-channel mode). In RTS four-channel mode, the audio signals and DC exist on the same wire. The PS-20 can also be switched into Clear-Com mode. The PS-20 has a 3-pin XLR (male) connector on the front of the system, where a RTS user station can connect and monitor activity on either or both channels. A single PS-20 power supply has 1.8 ampere per channel which means the user can power up more stations (see specifications for details). If additional user stations or beltpacks are needed, two PS-20's can be joined together to double the power capability. A pair of standard stereo plug connectors are available on the back of the power supply to connect two PS-20's through audio linking as well. The PGM IN (3-pin XLR female Program Input) connector can be used to send audio to both CH 1 and/or CH 2.

## Features

### Selectable Mode Operation

The PS-20 is selectable between RTS 2-channel, RTS 4-channel and Clear-Com mode.

### Audio Linking

There is an audio link connection (1/4" (6.3mm) Stereo plug) on the back of the unit.

### Monitoring

The 3-pin XLR Monitoring output connector on the front of the PS-20 allows the user to connect a RTS user station to monitor a channel or both channels.

### Status Indicators

There is a green status indicator for each channel on the front of the unit. Each of these indicators will remain lit during normal operation, but will turn RED during a channel current overload condition. Output current is automatically reduced during an overload, and normal operation is restored when the overload is removed.

### Program Input

There is a Program Input connector on the rear panel. This can be used to connect a device that both channel 1 and channel 2 can listen to at the same time. A Channel Select switch on the front panel assigns the program to either or both channels. A Level control adjusts the program level to the intercom channel.

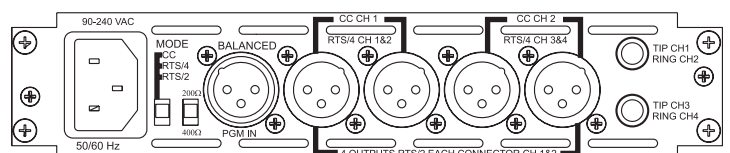
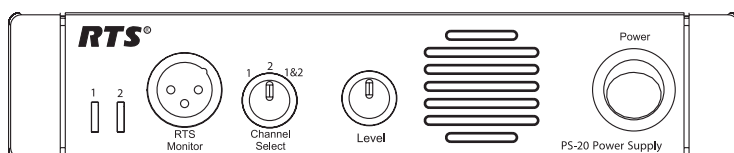
### Intercom Channels Connections

Intercom channels (user stations) are connected to the rear panel of the PS-20 with 3-pin XLR connectors.

### Selectable Termination Impedance

The IMPEDANCE SELECT switch on the rear panel allows each channel to be set for 200Ω or 400Ω operation. Select 200Ω for each channel operated independently. Select 400Ω for each channel connected to another channel.

## Line Drawing



# PS-20 Specifications

## General

Input Voltage: 90 to 264 VAC, 50 to 60 Hz

Output Voltage: 28 VDC to 32 VDC

Output Current: 2.00 Amps Maximum per channel

Termination Impedance: Selectable 200  $\Omega$  / 400  $\Omega$   
1.8 Amps maximum per channel

Ripple: < 0.2 V

Program Input Levels:

Nominal +2 dBu

Balanced, High Impedance >10 k $\Omega$

Two-Wire Output Levels:

Nominal 30 VDC

Unbalanced, selectable 200  $\Omega$  / 400  $\Omega$

Monitor Output:

Nominal Gain of 0 dB for 1000 mVRMS input level on the program input. 30 VDC nominal, 100 mA maximum.

Audio Link: Nominal input 2 dBu with a Gain of 0 dB

## Connections

Type: 3-pin XLR male (RTS 2-channel Mode)

Pin 1 Common for Audio and DC

Pin 2 30 VDC and Mixed Audio Channel 1

Pin 3 30 VDC and Mixed Audio Channel 2

Type: 3-pin XLR male (RTS 4-channel Mode)

Pin 1 Common for Audio and DC

Pin 2 30 VDC and Mixed Audio Channel 1 or 3

Pin 3 Mixed Audio Channel 2 or 4

Type: 3-pin XLR male (Clear-Com Mode)

Pin 1 Common for Audio

Pin 2 30 VDC

Pin 3 Mixed Audio Channel 1 or 2

## Program Input

Type: 3-pin XLR female

Pin 1 Common

Pin 2 Balanced Audio + Input

Pin 3 Balanced Audio - Input

## Audio Link

Input 1/4" Stereo Phono Jack

Tip: CH1

Ring: CH2

Sleeve: Ground

Output 1/4" Stereo Phono Jack

Tip: CH3

Ring: CH4

Sleeve: Ground

## AC Input

Type: Universal AC Plug

Pin 1 Hot

Pin 2 Neutral

Pin 3 Earth Ground

## Monitor Output

Type: 3-pin XLR male (RTS 2-channel Mode)

Pin 1 Common for Audio and DC

Pin 2 30 VDC and Mixed Audio Channel 1

Pin 3 30 VDC and Mixed Audio Channel 2

Type: 3-pin XLR male (RTS 4-channel Mode)

Pin 1 Common for Audio and DC

Pin 2 30 VDC and Mixed Audio Channel 1

Pin 3 Mixed Audio Channel 2

Type: 3-pin XLR male (Clear-Com Mode)

Pin 1 Common for Audio

Pin 2 30 VDC

Pin 3 Mixed Audio Channel 1 or 2

## Environmental

Operating Temperature: 0° C - 50° C (32° F to 122° F)

Storage: -40° C to 70° C (-40° F to 158° F)

Humidity: 0 to 95%, non-condensing

## Dimensions and Finish

Height: 1.72" (44 mm) - 1 RU

Width: 8.186" (207.9 mm)

Weight: Under 5lbs.

Finish: Thermoplastic front panel, Aluminum case, RTS light gray paint - black silkscreen.

Mounting: MCP Style rack kit or (included rubber adhesive feet).

## Contact Information

Telex Communications, Inc.  
12000 Portland Avenue South  
Burnsville, Minnesota 55337  
Telephone: (800) 392-0498  
Fax: (800) 323-0498

Form Number: LIT000055000

Date: July, 2007

## Ordering Information

### PS-20

Power Supply

Catalog Number:

90007854000 US Power Cord

90007854100 Euro Power Cord

90007854200 UK Power Cord

This specifications information is preliminary and is subject to change without notification.

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