

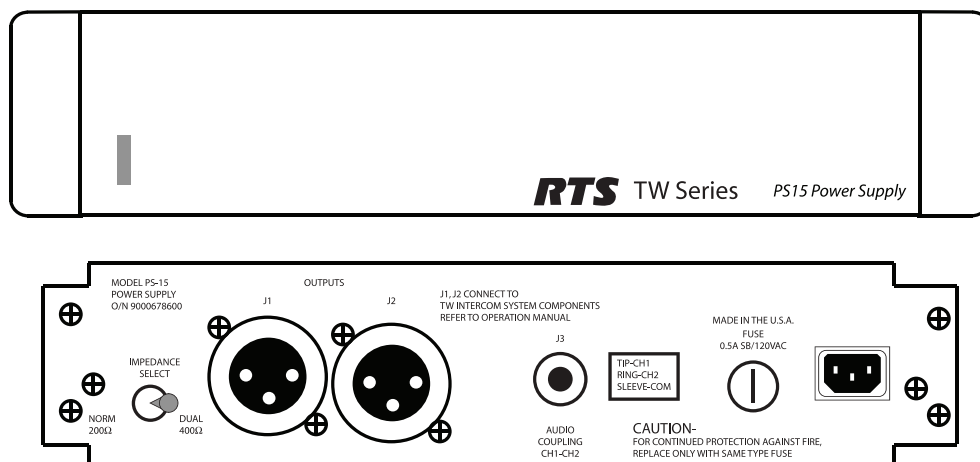
PS-15 Power Supply



The PS-15 Power Supply is designed to work within the **TW** (Two-Wire) Intercom System. The PS-15 is suitable for small to medium sized TW Intercom Systems. The unit is self-contained and features 2-channel operation: one (1) wet channel with 24 to 32 volts DC and one (1) dry channel without voltage potential. Each channel provides an audio termination impedance of 200 or 400 Ω (switch selectable). This power supply allows speech signals and DC to exist on the same wire (Channel I). The power supply's outputs are protected against short circuit conditions with recovery being automatic and instantaneous. A single PS-15 power supply can power 6 to 30 user stations (depending on model and combination—see specifications). If additional user stations are needed, two (2) PS-15 power supplies can be coupled together to double the powering capability: a 1/4-inch 3-circuit phone jack is available on each power supply for this purpose. This connector can also be used as a 1-way output port when monitoring or recording the intercom audio signals. When two (2) PS-15 power supplies are combined, toggling a rear panel switch on each supply will keep the audio level constant. Two (2) PS-15's can power as many stations as a PS-31 (with DC load evenly distributed between the two (2) supplies).

There are two (2) XLR-type 3-pin male connectors mounted on the rear panel for output interconnection to the user stations. The PS-15 has been designed to meet UL 1419 specifications (professional audio and video equipment). The PS-15 Power Supply may be used in portable applications (use optional MCP-8 channels) or in standard EIA equipment racks (use optional MCP-1 or MCP-2 rackmounting kits). The PS-15 is one (1) **RU** (Rack Unit) high and one-half rack wide. A single PS-15 may be rack mounted or two (1) PS-15's may be mounted side-by-side.

Line Drawings



Specifications

Outputs

One (1) powered channel, CH1, (audio + DC + 200 Ω /400 Ω 10% termination}, and one (1) passive channel, CH2, (audio + 200/400 Ω 20% termination).

Output Voltage

No Load: 32.0 +2.0. -1.0 volts

Full Load: 24.0 volts (nom.)

Output Impedance

200 or 400 Ω 20%. Switchable. On powered channel. 200 Ω (nom.) is maintained from 18.0 to 33.0 volts.

Output Current

Standard Option: 0.9 ampere at 21/+4-2 volts DC

*P Option (234 V): 0.9 ampere at 21/+4-2 volts DC

#D Option (100 V): 0.9 ampere at 21/+4-2 volts DC

Fault Current: 1.5 amperes at 0.0 volts DC

Signal Level

Nominal: 2.0 volts peak to peak

Maximum: 5.0 volts peak to peak

Frequency Response

100 Hz to 20 kHz +1, -5 dB

Signal-to-Noise Ratio

Reference 2.0 volts. Peak to peak: 60 dB (nom.)

Mains Voltage

Standard: 117 volts: $\pm 10\%$. 50–60 Hz

*P Option: 230 volts: $\pm 10\%$ 50–60 Hz

#D Option: 100 volts +10% -5% 50–60 Hz

Mains Amperes

0.40 at 117 volts: $\pm 10\%$, 50–60 Hz

0.20 at 234 volts: $\pm 10\%$, 50–60 Hz

0.40 at 100 volts +10%, -5% 50–60 Hz

Environmental

Temperature

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

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

Humidity: 0 to 95%, non-condensing

Dimensions

1.72 in (44 mm) H x 8.186 in (207.9 mm) W x 8.33 in (211.6 mm) D

Weight

4.68 lb (2.12 kg)

Finish

Thermoplastic front panel. Aluminum case. Light gray finish.

Order Information

PS-15 • PS-15 • One amp power supply for 15 stations

The specification information is preliminary and is subject to change without notification.
Brand names mentioned are the property of their respective companies.