Model SF-PA100A
Format-A to 100 W Mono Audio Amplifier - 70 V or 100 V

- 100 Watts RMS Constant Voltage Amplifier
- 70 V or 100 V Output
- Plenum Rated per UL 2043 Standard
- Converts One Format-A Audio Signal Pair to a Mono Constant Voltage Output
- Audio Input is Switch-Selectable from Format-A Pair A, Pair B or Pair C
- Format-A Signal and Power Pairs Pass Through to LOOP OUT Jack
- External Level Control Using RDL D-RLC10KM-Type Remote Level Controls with RJ45
- Special Software Not Required for Module Setup
- LED Indicators: Amplifier Output Level and Status, and Correct dc Voltage on Format-A Output
- High-Efficiency Class D Operation
- Thermal and Short-Circuit Protection

APPLICATION: The SF-PA100A is an audio power amplifier that receives three audio channels on an RJ45 Format-A connector. A selector feeds Pair A, Pair B or Pair C audio to the amplifier that provides a 70 V or 100 V constant voltage amplified output. At the normal gain setting, the output provides 100 watts for an audio level of +22 dBu. The three Format-A pairs feed through to the LOOP OUT jack to feed additional amplifiers or other Format-A receivers.

Input gain is set by the installer using a rear-panel single-turn potentiometer with an associated dual-LED VU meter calibrated to 10 dB below maximum power output. The SF-PA100A is equipped with an internal VCA for setting the amplifier output level. The REMOTE CONTROL RJ45 jack provides for the connection of an RDL D-RLC10KM type remote level control. It is also possible to use the RJ45 jack to connect an external 10 kΩ potentiometer or a 0 to 10 Vdc control voltage. VCA control insures long term noise-free level adjustment.

A selectable audio compressor is provided to add up to 15 dB additional headroom to the power amplifier input. The compressor is designed to remain aurally transparent using automatically adjusting attack and release times. The amplifier is equipped with both thermal and output short-circuit protection. The high-efficiency Class D output stage produces minimal heat for all levels of expected voice or music modulation.

The SF-PA100A is equipped to operate from an included external 48 Vdc power supply.

The SF-PA100A is constructed in a durable, professional all-metal enclosure suitable for free-standing, surface-mounted or rack-mounted operation. This full-featured SYSFLEX product is engineered and manufactured in the U.S.A. for continuous duty in demanding installations. The versatility of SYSFLEX products adds enormous flexibility in the design and installation of professional A/V systems.
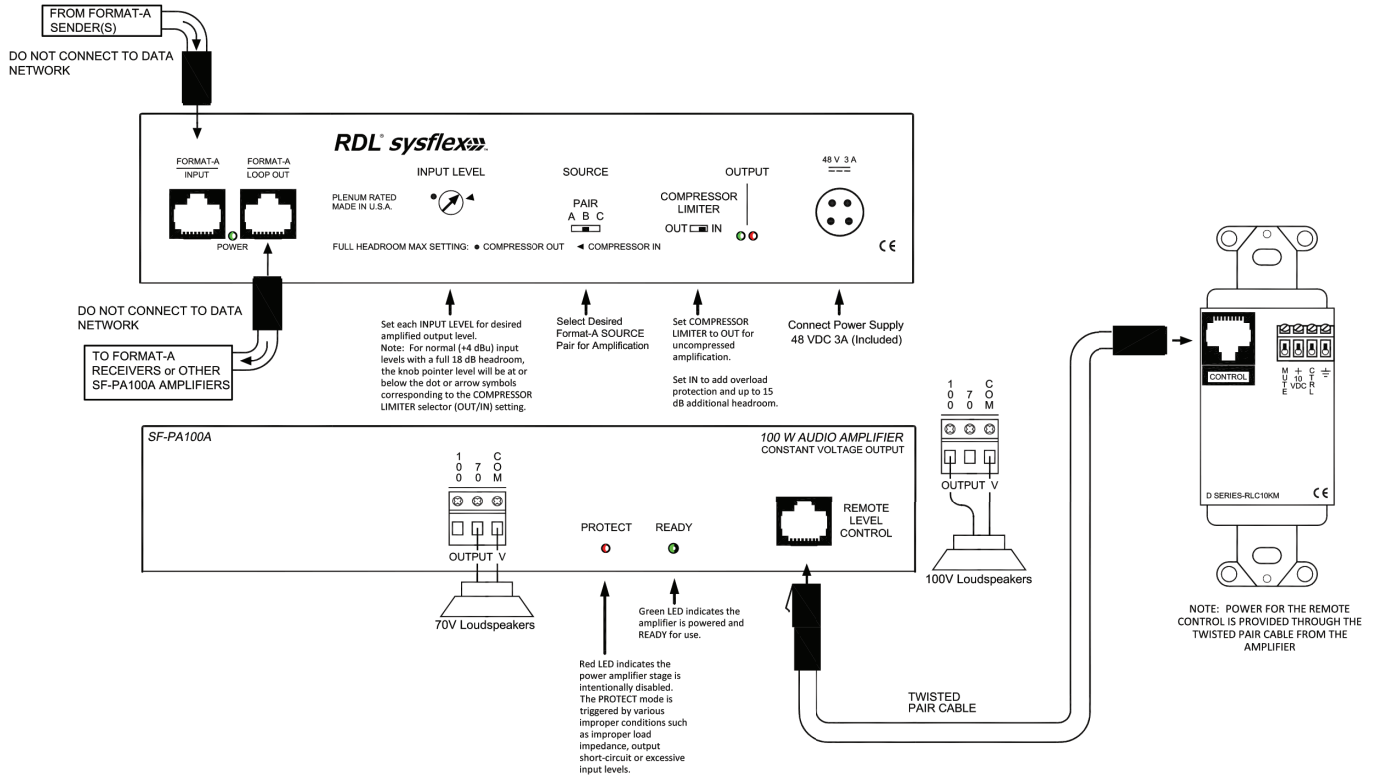
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Installation/Operation

Declaration of Conformity available from rdlnet.com.
Sole EMC specifications provided on product package.
Specifications are subject to change without notice.

TYPICAL PERFORMANCE
Format-A Input Section

Input:	RDL TP Format-A
Input Connection:	RJ45
Format-A Signal Pairs Used (3):	A, B, or C (3-position selector)
Format-A Output:	RJ45 (loop-through)
CMRR:	> 80 dB (50 Hz to 150 Hz)
Headroom above +4 dBu input:	> 18 dB

Amplifier Section

Power Amplifier Output:	100 W RMS (70 or 100 V)
Frequency Response:	+0/-3 dB (50 Hz to 20 kHz; -0.25 dB typical at 20 kHz)
THD+N:	< 1% (100 W)
Noise:	<-85 dB (below max power); <-75 dB (below 1/8 power)
Audio Metering:	Dual-LED VU Meter calibrated to 10 dB below full output power
Compressor:	Selectable (IN/OUT), Threshold 2 dB below rated output, automatic adjusting attack and release times; adds 15 dB headroom to power amplifier input

Gain Adjustment:	Single turn audio taper; sets maximum gain
VCA:	RJ45, 0 to 10 Vdc control (see RDL D*-RLC10M type wall controls)
Indicators (5):	Front-panel: Ready (green), Overload Shutdown (red), Rear-panel: dual-LED VU meter (2), Format-A Power (green)
Ambient Operating Environment:	0° C to 50° C
Power Supply (included):	100 to 240 Vac, 50-60 Hz, IEC C14; Output to module: 48 Vdc
Plenum Rating Standard:	UL 2043
Dimensions:	Height: 1.68 in. (4.27 cm); Width: 8.71 in. (22.12 cm); Depth: 7.8 in. (19.81 cm)
Package Type:	Cardboard Box
Package Dimensions:	4.2 in. (10.67 cm) x 11.9 (30.23 cm) x 9.5 (24.13 cm)
Shipping Weight:	5.465 lbs.
WEEE weight:	4.565
Tariff code:	8543.70.9910