



**Audio Specialties Group
Products Division**

**IFB-428
Power Inserter
Operators Guide**



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SECTION 1:

1.0 Introduction

The IFB-428 bridges the gap between matrix intercom systems and user stations that require power to be supplied from the IFB system. The design provides proper operating voltages for a variety of "IFB" user stations such as the RTS 4020, RTS-4030, and the Clear-Com AB-100.

The configuration is compatible with the RTS/TELEX 4000 series and the IFB-828. The i428 improves upon the performance of the IFB 828 by increasing the output DC voltage by 7 volts to provide a full 30V DC to the IFB user equipment.

1.1 Features

The 2 RU high chassis contains eight identical channels that accept two balanced line level signals. The two signals are commonly referred to as "Interrupt" and "Non-Interrupt". The circuitry then transform those signal into a powered or "wet" output on a single XLR male connector. Each channel has a rear panel power status LED and a trim pot for routing the non-interrupt signal to the interrupt output for mono-earpiece use. All signals use XLR-3 pin connections.

The Front panel features two indicators; one shows status of the primary DC supply for channel 1-4 and the other for channels 5-8.

These indicators will not illuminate if the internal DC fuses are blown. These seven amp fuses are mounted on the power management PCB inside the chassis.

1.2 Internal Settings

There is a jumper on each channel PCB that selects the Non-Interrupt Leak control to utilize the rear panel trim or an optional front panel knob. There is a third option to disable the Leak control.

Position A = Disable

Position B = Rear Panel Trim

Position C = Front Panel.

1.3 Precautions

Each channel output has a status indicator. The indicator will extinguish if the output DC voltage is shorted to ground. The OUTPUT SHOULD NOT BE SHORTED TO GROUND. This condition will generate excessive heat in the voltage regulator and could cause permanent damage to the electronic components.

The unit is shipped set for 120V AC operation.

SECTION 2:

Specifications

2.1 Electrical/Mechanical Specifications

IFB-428

Power Requirements:

120V AC 60Hz 100 Watts

240V AC 60Hz 50 Watts

Audio Inputs:

Max Input Level = +10dBm 400Hz

Outputs:

30V DC 375mA per channel

Mechanical:

Height: 3.46 (88 mm)

Width: 19 inches EIA Rack Mount

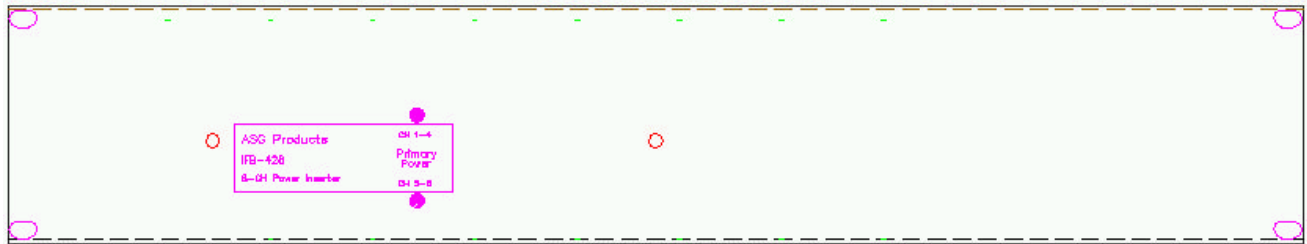
Depth: 12 inches (119 mm)

Weight: 8lbs

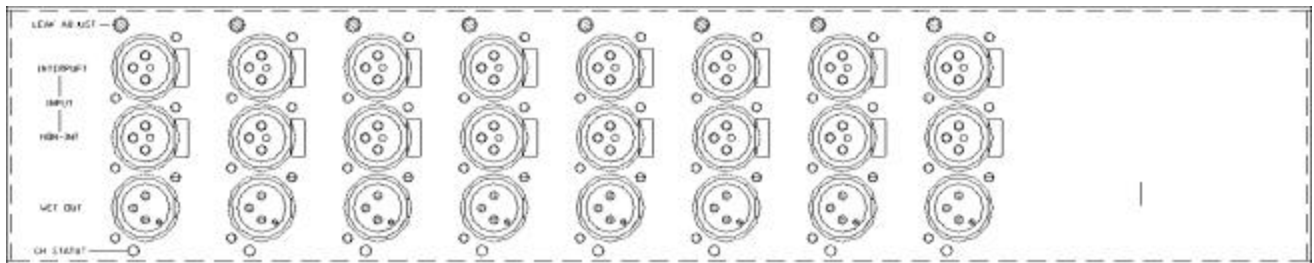
Finish:

Chassis is black anodize

2.3 Front Panel Drawings



2.3 Rear Panel Drawings



SECTION 3: Connector Pin-Outs

All input connectors: PIN-1 Audio Shield
PIN-2 Positive Signal Input
PIN-3 Negative Signal Input

All output connectors: PIN-1 Audio Ground/Signal Common/DC Ground
PIN-2 Interrupt Audio Signal + 30V DC
PIN-3 Non-Interrupt Audio Signal