

Description

The Gamewell-FCI, AM-50 Series amplifiers are a 50 watt, digital, switching power amplifier. The following lists the 2 types of AM-50 Series amplifiers that may be ordered.

- The AM-50-25 amplifier produces 25 V_{RMS} audio output.
- The AM-50-70 amplifier produces 70.7 V_{RMS} audio output.

The amplifiers are components of the following E3 Series® Systems.

- E3 Series Expandable Emergency Evacuation System
- E3 Series Combined Fire and Mass Notification System
- E3 Series Broadband Voice Evacuation System

WARNING: AM-50 Series Amplifiers Node Restriction:

The INI-VGX can support up to 4 AM-50 Series amplifiers with the same output voltage. However, you cannot wire an AM-50-25 amplifier and an AM-50-70 amplifier to the same INI-VGX Voice Gateway Node.

Each AM-50 Series amplifier provides 2 speaker circuits that can be wired Style Y (Class “B”) or Style Z (Class “A”). The terminal connections can accommodate up to 12 AWG, twisted-pair, shielded wire. Both speaker circuits produce a combined total of 50 watts of power. The 50 watts of power can be divided between the 2 integral Class A/B speaker circuits. The 2 speaker circuits may be individually activated and supervised by an INI-VGX Transponder Voice Gateway.

The AM-50 Series amplifier can be programmed to broadcast 16 messages generated from its local INI-VGX Voice Gateway. In addition, the AM-50 Series amplifiers produce superior clarity for intelligible LIVE voice paging.

When the selected System Sensor, SpectrAlert® Advance Series speakers are used with the Manufacturer’s 520 Hz audiophile, the E3 Series® System is compliant with UL Standard 464 Low Frequency requirements.

For additional information, refer to the SpectrAlert Advance Series Data Sheet, P/N:9021-60346.

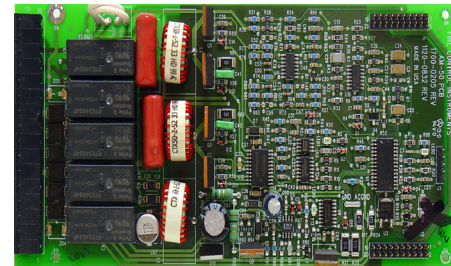
Installation

As many as four AM-50 Series amplifiers can be installed in the following cabinets when supervised and controlled by an INI-VGX Voice Gateway.

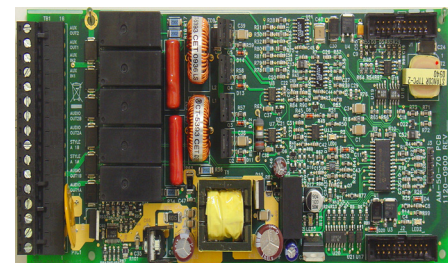
- Cabinet B, INX CAB-B
- Cabinet C, INX-CAB-C
- Cabinet D, INX-CAB-D

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AM-50 Series Amplifiers



AM-50-25



AM-50-70

Features

- Listed under UL® Standard 864, 9th Edition.
- Listed under UL Standard UL2572 for Mass Notification.
- Complies with UL Standard 464 for 520 Hz Low Frequency.
- Provides digital, switching amplifier technology.
- Produces 50 watts of digital power.
- Includes 2 speaker circuits, wired Style Y (Class B) or Style Z (Class A).
- Up to 4 AM-50 Series amplifiers with the same output voltage can be controlled by the INI-VGX voice gateway.

SIGNALING



LISTED
S1869



APPROVED
3017416



Approved
FDNY:
7165-1703:0125



City of
Chicago
Approved
Class 1
Class 2
High Rise
City of
DENVER
Approved

Description (Continued)

The AM-50 Series amplifiers can be installed using the AM-50 Extender Plate whenever the E3 Series control panel is used in conjunction with the Autonomous Control Unit of the E3 Series Combined Fire and Mass Notification System.

- Cabinet C, E3 INCC-CAB-C

For additional information, refer to the E3 Series Combined Fire and Mass Notification Data Sheet, P/N:9021-60758

Specifications

AM-50-25 Amplifier

Operating Voltage: 27.3 to 20.4 VDC
Operating Current: 0.086 amp normal standby
Alarm Current: 2.206 amp max. alarm @ 50 Watt
Audio Output: 50 watts max. @ 25 V_{RMS}

AM-50-70 Amplifier

Operating Voltage: 27.3 to 20.4 VDC
Operating Current: 0.049 amp normal standby
Alarm Current: 2.30 amp max. alarm @ 50 watt
Audio Output: 50 watts max. @ 70.7 V_{RMS}

AM-50 Series Amplifiers

Relative Humidity: 0 to 93% max., (non-condensing) at 90° F (32° C)
Operating Temperature: 32° to 120° F (0° to 49° C)
Dimensions: 7 1/2" W x 3 1/2" H x 1 1/4" D
(19 W x 9 H x 3 D cm)

Ordering Information

Part Number Description

1100-0456 AM-50-25, INX 25V_{RMS} audio output, 50 watt amplifier
AM-50-70 INX 70.7V_{RMS} audio output, 50 watt amplifier

GAMEWELL-FCI