

## Description

The AM-50 Series amplifiers are components of the E3 Series<sup>®</sup> Expandable Emergency Evacuation System. The AM-50 Series amplifiers include an AM-50-25 and an AM-50-70 amplifier. The amplifiers may be ordered as either a 25 V<sub>RMS</sub> or a 70.7 V<sub>RMS</sub>, 50 watt, digital, switching power amplifier. As many as four (4), AM-50 Series amplifiers can be installed in an INX CAB-B cabinet and they are supervised and controlled by an INI-VGX Voice Gateway.

There are two types of AM-50 Series amplifiers.

- The AM-50-25 amplifier produces 25 V<sub>RMS</sub> audio output.
- The AM-50-70 amplifier produces 70.7V<sub>RMS</sub> audio output.

### WARNING: AM-50 Series Amplifiers Node Restriction:

The INI-VGX can support up to four (4) AM-50 Series amplifiers with the same output voltage. 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 two (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 two (2), integral Class A/B speaker circuits. The two 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.

The AM-50 Series amplifiers may be installed in an INX CAB-B cabinet or an INCC command center using the expander plates whenever the E3 control panel is used in conjunction with the E3 Series, Expandable Emergency Evacuation System.

## 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<sub>RMS</sub>

### 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<sub>RMS</sub>

### 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)

## AM-50 Series Amplifiers



AM-50-25



AM-50-70

## Features

- Listed under UL<sup>®</sup> Standard 864, 9th Edition
- Provides digital, switching amplifier technology
- Produces 50 watts of digital power
- Includes two (2), speaker circuits, wired Style Y (Class B) or Style Z (Class A)
- Up to four (4), AM-50 Series amplifiers with the same output voltage can be controlled by the INI-VGX voice gateway

## Ordering Information

### Part Number Description

**1100-0456** AM-50-25, INX 25V<sub>RMS</sub> audio output, 50 watt amplifier  
**AM-50-70** INX 70.7V<sub>RMS</sub> audio output, 50 watt amplifier

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UL<sup>®</sup> is a registered trademark of Underwriters Laboratories, Inc.

### An ISO 9001-2000 Company

SIGNALING



LISTED APPROVED  
S1869 3017416



ME A  
Approved  
FDNY:



City of  
Chicago

Approved  
Class 1  
Class 2  
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City of  
DENVER

Approved

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