AA SERIES AMPLIFIERS

Amplifiers for Emergency Voice Evacuation Systems

The AA Series audio amplifiers provide audio bulk amplification for the E3 Series Classic Voice Evacuation System.



AA Series Amplifiers

GENERAL

The Gamewell-FCI, AA Series audio amplifiers provide the latest audio technology and bulk amplification for the Gamewell-FCI, E3 Series® Classic Emergency Voice Evacuation System. There are two types of models available:

- Model AA-100 provides 100 watts @ 70.7 V_{RMS} (Class A Power-limited)
- Model AA-120 provides 120 watts @ 25 V_{RMS} (Class A Power-limited)

Both models use high-efficiency, power-switching, regulation technology to reduce the generation of heat and minimize the size to simplify the installation.

The E3 Series Classic Systems draws on 100 or 120 watt amplifiers for powerful, bulk amplification that can be used in a variety of large-scale facilities such as industrial, university, or high-rise complexes.

An integral automatic back-up tone generator allows for slow whoop or high/low signal tones.

The amplifiers include the following features:

- power supply
- battery transfer control
- amplifier supervision
- back-up amplifier transfer control

The Indicators and Controls for the amplifiers are listed below.

Indicators and Controls

Normal Level	Green LED
Incorrect Level	Yellow LED
Amplifier Trouble	Yellow LED
Speaker Trouble	Yellow LED
Brown-out/AC Failure	Yellow LED
Battery Supervision	Yellow LED

ORDERING INFORMATION

- AA-100 Amplifier, 100W
- AA-120 Amplifier, 120W

FEATURES AND BENEFITS

- Listed under UL® Standard 864, 10th Edition
- AA-100 provides dual outputs of up to 100 watts @ 70.7 V_{RMS} (max. 100 watts of combined output)
- AA-120 provides up to 120 watts @ 25 V_{RMS}
- Offers a high efficiency power-switching regulation technology
- Includes a “Grouped” or a “One-to-One” backup amplifier switching bus
- Offers the battery input and brown-out transfer control feature
- Provides a low power standby mode for low battery drain
- Produces an automatic back-up tone generator (slow whoop or high/low)
- Contains plug-in terminal strips and cable connectors for installations
- Designed with an integral chassis for the cabinet mount
- Includes a 10-position level adjust and LED indicators

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AA SERIES AMPLIFIERS TECHNICAL SPECIFICATIONS

SPECIFICATIONS

Rated Output:
100 watts RMS (AA-100)
120 watts RMS (AA-120)
Output Voltage:
70.7 V_{RMS} (AA-100)
25 V_{RMS} (AA-120)
Total harmonic distortion@ 1 kHz: 4.0%
Frequency response (+3, -1dB): 170-7,500 Hz
Supply Voltage: 120 V, 60 Hz
Power consumption @ 120 VAC:
Standby: 306 A
Alarm: 1.85 A
24 VDC (battery) consumption:
Standby: 051 A
Alarm: 6.5 A (AA-100)
7.3 A (AA-120)
Dimensions: 7.0" H x 19.0" W x 4.5" D
(17.8Hx48.3Wx11.4D cm)
Weight: 16.0 lbs. (35.3 kg.)

TEMPERATURE AND HUMIDITY RANGES

This system meets NFPA requirements for operation at 0 – 49°C/32 – 120°F and at a relative humidity 93% ± 2% RH (noncondensing) at 32°C ± 2°C (90°F ± 3°F). However, the useful life of the system's standby batteries and the electronic components may be adversely affected by extreme temperature ranges and humidity. Therefore, it is recommended that this system and its peripherals be installed in an environment with a normal room temperature of 15 – 27°C/60 – 80°F.

STANDARDS

The AA Series Amplifiers are designed to comply with the following standard:

UL Standard: 864, 10th Edition

AGENCY LISTINGS AND APPROVALS

These listings and approvals apply to the modules specified in this document. In some cases, certain modules or applications may not be listed by certain approval agencies, or listing may be in process. Consult the factory for the latest listing status.

UL Listed: S1949
UL 864, 10th Edition
FM Approved: 3022355
MEA Approved, Fire Dept. of New York:
COA# 6077
CSFM: 7165-1703:0125, 6911-1703:0118
ISO 9001 Certification

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This document is not intended to be used for installation purposes. We try to keep our product information up-to-date and accurate. We cannot cover all specific applications or anticipate all requirements. All specifications are subject to change without notice.

Country of origin: U.S.A.

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