

DS-AMP

Digital Series Amplifier for use with the DS-DB Distribution Board



Voice Control Systems

General

As part of a DS-DB Digital Series system, the DS-AMP Digital Series amplifier provides bulk amplification to a Digital Voice Command (DVC) system. Up to four DS-AMP amplifiers can be connected to one DS-DB to supply high-level audio. Backup audio circuits are available by adding DS-BDA or dedicated DS-AMPs.

Features

- 125 watts of audio power at 25V_{RMS}.
- 100 watts of audio power at 70V_{RMS}. This option requires step-up transformer DS-XF70V, ordered separately.
- Compatible with a DS-BDA that is being used as a backup or second audio channel. (A DS-BDA used as a backup or second channel for a DS-AMP configured for 70V_{RMS} requires step-up transformer DS-XF70V, ordered separately.)
- EIA-485 communication with DS-DB.

Installation

The DS-AMP arrives from the factory already installed on its chassis. It mounts in one row of any EQ or CAB-4 Series cabinet. The CAB-4 row can be covered using a DP-1B dress panel, ordered separately. A step-up transformer (ordered separately) easily mounts on the front of the DS-AMP for 70V_{RMS} configurations.

Specifications

AC Power, TB4:

120 VAC 50/60Hz input;

- 4.1 A maximum when used for 25V (125W).
- 3.55 A maximum when used for 70V (100W).

E version: 220-240 VAC 50/60 Hz input;

- 2.4 A maximum when used for 25V (125W).
- 2.1 A maximum when used for 70V (100W).

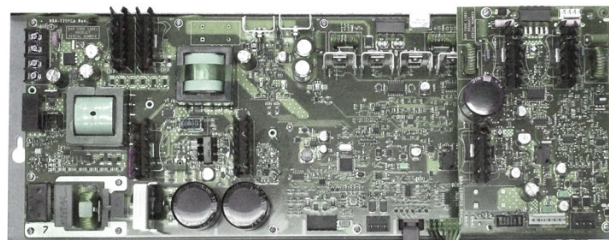
Recommended wiring: 12-14 AWG (1.6 mm O.D.) with 600 VAC insulation.

Battery Connections: Supplied cable connections to batteries.

For battery sharing, use 12 AWG either in the same cabinet or in conduit for no more than 20 feet (6.09 meters).

High Level output (TB3): Non-power-limited, supervision provided by DS-DB. Recommended wiring: 14-18 AWG, twisted-pair, unshielded.

Audio In (TB2): Power-limited, supervision provided by DS-DB. Recommended wiring: 14-18 AWG, twisted-pair, unshielded.



Standards and Codes

The DS-AMP amplifiers comply with the following standards:

- NFPA 72 2007 National Fire Alarm Code.
- Underwriter Laboratories Standard UL 864.
- Underwriter Laboratories of Canada (ULC) ULC-S527-99 Standard of Control Units for Fire Alarm Systems.
- Part 15 Class A conducted and radiated emissions as required by the FCC.

Listings and Approvals

These listings and approvals apply to the DS-AMP amplifiers. In some cases, certain modules may not be listed by certain agencies, or listing may be in process. Consult factory for latest listing status.

- **UL Listed:** S635.
- **ULC Listed:** S635.
- **CSFM:** 7165-0028:0224 (NFS2-3030); 7165-0028:0243 (NFS2-640).
- **FDNY:** COA#6065 (NFS2-3030); COA#6085 (NFS2-640).

Product Line Information

DS-AMP AMPLIFIERS

Shipped mounted to the chassis.

DS-AMP: 120 VAC Digital Audio Amplifier (50/60 Hz), 125W (25V_{RMS}), 100W (70V_{RMS}).

DS-AMPE: 220-240 VAC Digital Audio Amplifier (50/60 Hz), 125W (25V_{RMS}), 100W (70V_{RMS}). 70V_{RMS} configuration requires step-up transformer.

DS-BDA AMPLIFIER

Backup amplifier, provides an economical means of backup up DS-AMP amplifiers in a one-to-one primary/backup configuration. Can also provide a second audio channel for a DS-AMP when programmed as a primary amplifier.

DS-BDA: 25V_{RMS} or 70V_{RMS}. 70V_{RMS} configuration requires step-up transformer.

STEP-UP TRANSFORMER

DS-XF70V: Transformer required for 70V_{RMS} configuration of DS-AMP/E and DS-BDA. Ordered separately.

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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.



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