NOTIFIER NFC-50DA(E) Distributed Audio Amplifiers Owner's Manual

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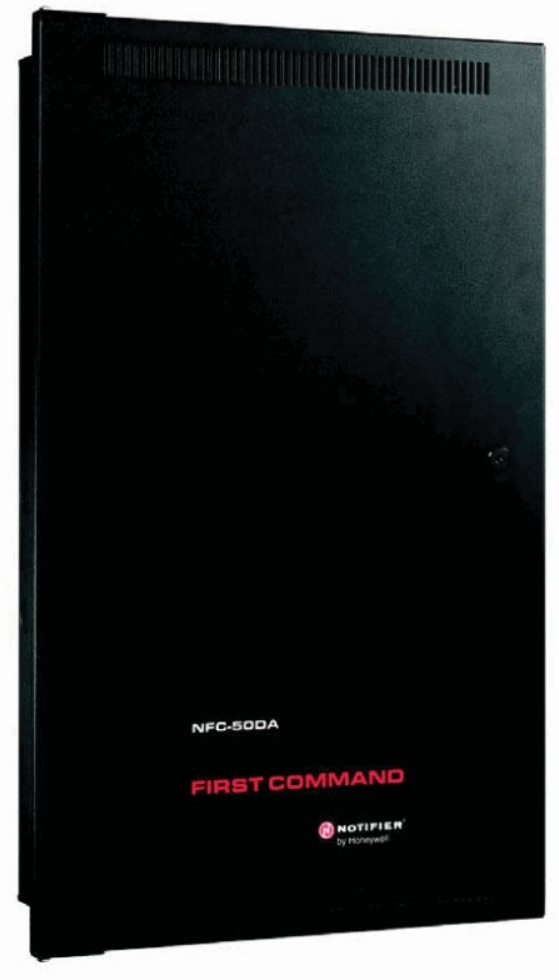
NFC-50DA(E) Distributed Audio Amplifier's



Owner's Manual

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General

Notifyee's FirstCommand NFC-50DA(E), NFC-50/100DA and NFC-125DA(E) are intelligent 50 watt, 100 watt, and 125 watt amplifiers that are used with the NFC-50/100(E) Emergency Command Center. These distributed audio amplifiers amplify an audio message for distribution throughout a facility when additional audio power is required. They are designed as selfcontained units and can be conveniently installed near an area of protection to reduce wiring demands for speaker circuit outputs.

Each NFC-50DA(E) is capable of producing 50 watts of total power and includes four built-in, fully supervised speaker circuits/zones. The NFC125DA(E) is capable of producing 125 watts of total power with four built-in, fully supervised speaker circuits/zones. Both amplifiers are expandable to include eight speaker circuits when an optional NFC-CE4 module is installed.

For installations that require survivability, the NFC-50/100DA can be configured for 50 watts of primary power and 50 watts of backup power, or 100 watts primary with 50 watts back up and comes standard with eight built-in, fully supervised speaker circuits/zones.

Any combination of up to eight, NFC-50DA(E)s, NFC-50/ 100DAs, or NFC-125DA(E)s can be connected to the NFC-50/ 100(E) to provide a total output of 1100 watts of audio power and up to 24 speaker circuit outputs. These

distributed audio amplifiers are wired to the data bus and the Audio-Riser bus of the NFC-50/100(E) primary operating console. They have their own power supplies with built-in battery charger and are both fully supervised by the NFC-50/100(E) for any trouble conditions.

Features

- The NFC-50DA(E) and NFC-125DA(E) units come standard with four onboard fully supervised speaker circuit zones, and are expandable to eight circuits when an optional NFC-CE4 module is added.
- The NFC-50/100DA includes eight onboard fully supervised speaker circuits/zones.
- Any combination of up to eight NFC-50DA(E)s, NFC-50/ 100DAs, or NFC-125DA(E)s per system can be used with the NFC-50/100(E) for a total of 1100 watts of audio power and 24 speaker circuit outputs.
- The NFC-50/100DA can be used in the following configurations:
  – 50 Watts primary / 50 Watts back up
  – 100 watts primary / No back up
  – 100 watts primary / 50 Watts backup (Optional NFCBDA-BU required)
- The NFC-50/100DA supports the use of low frequency sounders per UL 464. Refer to the Device Compatibility Document #15378 for compatible devices.
- Supports both Class A (Style Z) and Class B (Style Y) wiring.
- Easy setup and configuration by using a simple, built-in web based programming utility on the NFC-50/100(E).
- UL2572 (Communication and Control Units Mass Notification Systems). UL 864 (Emergency Voice Evacuation for Fire).
- Built-in power supply and battery charger that supports up to 35AH. (For batteries larger than 18 AH, use the BB-26 or NFS-LBB Battery Box.)
- NFC-50DA(E) and NFC-50/100DA are field selectable for 25Vrms or 70Vrms of operation. NFC-125DA(E) operates at 25 volts.
- Sturdy, scratch resistant cabinet.

SOME SUITABLE APPLICATIONS

- Schools
- Theaters
- Auditoriums
- Nursing Homes
- Military Facilities
- Places of Worship
- Factories
- Restaurants
- Office Buildings

Installation
The NFC-50DA(E), NFC-50/100DA, and NFC-125DA(E) can be surface or flush mounted.

Compatibility
The NFC-50DA(E), NFC-50/100DA, and NFC-125DA(E) are only compatible with the NFC-50/100(E) FirstCommand evacuation panel.

Electrical Specifications

PRIMARY AC POWER:

- NFC-50DA: 120VAC, 60Hz
- NFC-50DAE: 240VAC, 50Hz
- NFC-50/100DA: 120VAC, 60Hz
- NFC-125DA: 120VAC, 60Hz
- NFC-125DAE: 240VAC, 50Hz

SPEAKER POWER:

- NFC-50DA(E): 50 watts primary only (25Vrms or 70.7Vrms).
- NFC-50/100DA: 50 watts primary & 50 watts back up (25Vrms or 70.7Vrms); 100 watts primary only (25Vrms or 70.7Vrms); 100 watts primary & 50 watts back up (25Vrms or 70.7Vrms) (NFC-BDA-BU installed).
- NFC-125DA(E): 125 watts primary only (25Vrms).

SPEAKER OUTPUTS

- NFC-50DA(E): Four (4) supervised Class B (Style Y) or Class A (Style Z). outputs. (Expandable to eight with NFCCE4).
- NFC-50/100DA: (8) supervised Class B (Style Y) or Class A (Style Z). outputs.
- NFC-125DA(E): Four (4) supervised Class B (Style Y) or Class A (Style Z). outputs. (Expandable to eight with NFCCE4).

SECONDARY POWER (BATTERY) CHARGING CIRCUIT

- Supports lead acid batteries only.
- Battery charge capability: 7AH to 35AH.
  (The NFC-50DA(E), NFC-50/100DA and the NFC-125DA(E) cabinet only support up to 18AH. For batteries larger than 18AH, use the BB-26 or the NFS-LBB battery box.

Other Accessories
BB-26: Battery cabinet used to mount up to two 26AH Batteries (BAT-12260).
NFS-LBB: Battery cabinet used to mount up to two 55AH Batteries (BAT-12250).

Product Line Information (Ordering Information)
NFC-50DA: Distributed (Remote) Audio Amplifier, 50 watts.
NFC-50/100DA: Distributed (Remote) Audio Amplifier with back up, 50 watts/100 watts at 25Vrms or 70Vrms.
NFC-125DA: Distributed (Remote) Audio Amplifier.
NFC-50DAE: Export version, Distributed (Remote) Audio Amplifier, 50 watts, 240 VAC, 50 Hz.
NFC-125DAE: Export version, Distributed (Remote) Audio Amplifier, 125 watts, 240 VAC, 50 Hz.
NFC-50/100: (Primary operating Console) 50 Watt, 25VRMS single speaker zone emergency voice evacuation system, Integral microphone, built in tone generator and 14 recordable messages. Please refer to the data sheet DN-60772 for more information.
NFC-50/100E: Export version (Primary operating Console) 50 Watt, 25VRMS single speaker zone emergency voice evacuation system, Integral microphone, built in tone generator and 14 recordable messages. 240 VAC, 50 Hz.

Please refer to the data sheet DN-60772 for more information.
CHG-75: 25 to 75 ampere-hours (AH) external battery charger.
BAT-1270: Battery, 12volt, 7.0AH (Two required).
BAT-12120: Battery,12volt,12.0AH (Two required).
BAT-12180: Battery,12volt, 18.0AH (Two required).
BAT-1260: Battery, 12volt, 26.0AH (Two required).

Optional Modules

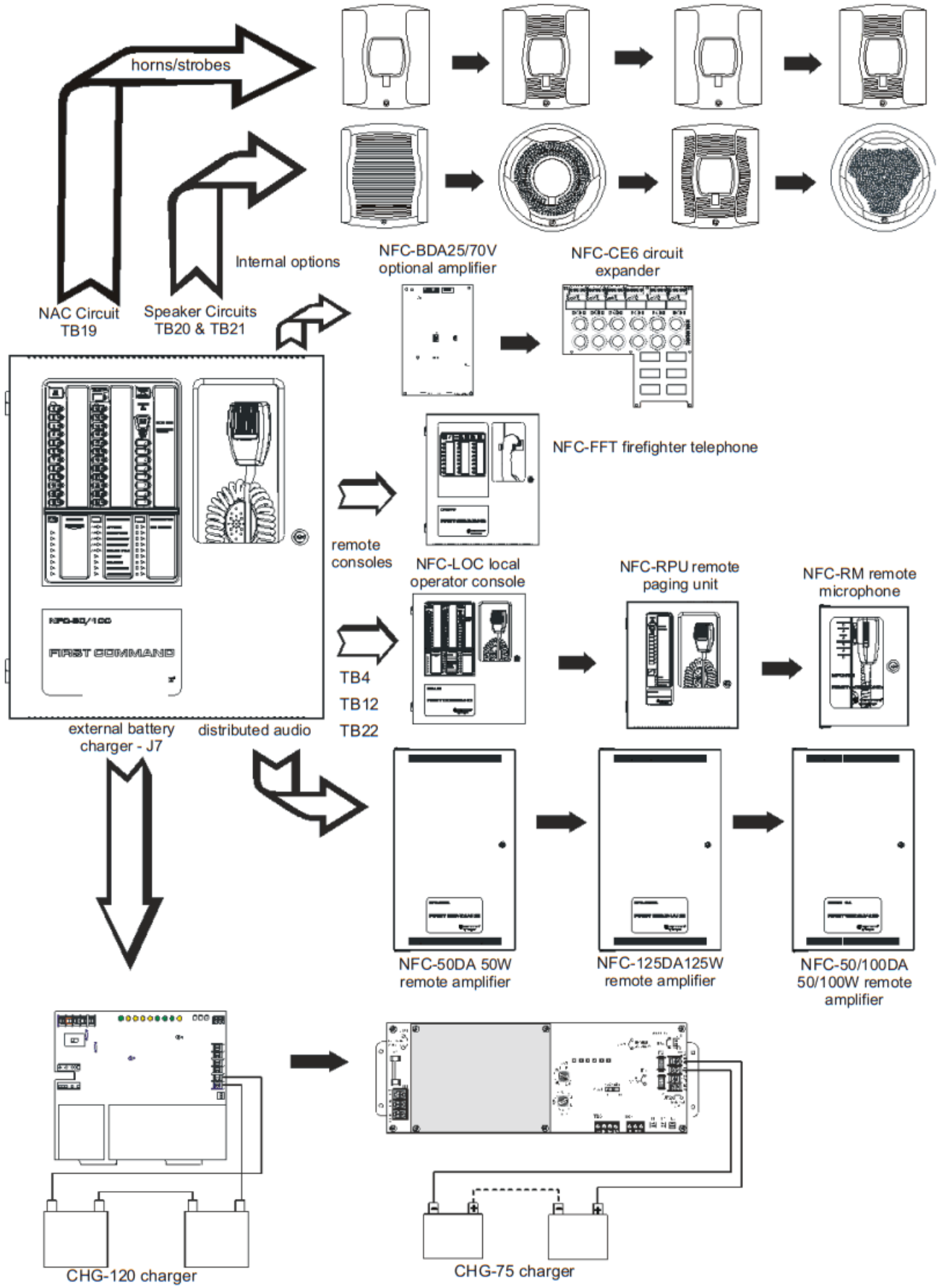
NFC-CE4: Circuit Expander Module provides connections for up to four Style Z (Class A) or four Style Y (Class B) speaker circuits. Circuits are configured through the web- based programming utility on the NFC-50/100(E).
NFC-BDA-BU Expander card for NFC-50/100DA remote amplifier for 100 watt primary / 50 watt back up operation.

Wiring Requirements
See Product manual part number: LS10027-001NF-E for detailed wiring requirements.

Cabinet Specifications

16″ W x 26.25″ H x 4.125″ D (40.64cm W x 66.68cm H x 10.48cm D).

Shipping Specifications
NFC-50DA Weight: 25.8 lbs (11.7kg)
NFC-50DA(E) Weight: 25.8 lbs (11.7kg)
NFC-125DA Weight: 24.3 lbs (11.02kg)
NFC-125DA(E) Weight: 24.3 lbs (11.02kg)
NFC-50/100DA Weight: 28 lbs (12 kg)
NFC-BDA-BU Weight: 3 lbs. (1 kg)



NFC-50/100(E) FirstCommand (Possible Configurations)

Temperature and Humidity ranges

This system meets NFPA requirements for operation at 0-49º C/32-120º 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 15-27º C/60-80º F.

Agency Listings and Approvals
The listings and approvals below apply to the NFC-50/ 125DA(E) Remote Amplifiers. In some cases, certain modules may not be listed by certain approval agencies or listing may be in process. Consult factory for latest listing status.

- UL Listed S635
- CSFM: 7300-0028:0266

Standards and Codes
The NFC-50/100 system complies with the following UL Standards and with NFPA 72 Fire Alarm system requirements.
UL 864
UL 2572

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ENGINEERING & MANUFACTURING
QUALITY SYSTEMS

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.
For more information, contact Notified. Phone: (203) 484-7161, FAX: (203) 484-7118. www.notifier.com

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Documents / Resources

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