

# FCI-CHG-120

## Battery Charging System

### General

The FCI-CHG-120 is the compatible battery charging system that is designed for use with the AA-100 and the AA-120 bulk amplifiers. It is used to charge lead-acid batteries between 25 and 120 ampere-hours (A/H).

### Construction and Features

The FCI-CHG-120 consists of a PC board and a mounting chassis. The FCI-CHG-120 contains the following Diagnostic LEDs:

- Primary AC ON
- Ground Fault
- Lo Charge
- Charger Trouble
- Low Battery
- Hi Charge
- Battery Voltage Level (3 LEDs)

Produces the following charge amperes hours:

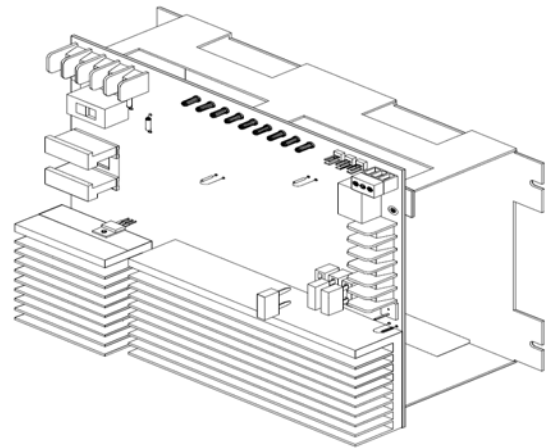
- 24 AH batteries within 9 hours
- 55/60 AH batteries within 20 hours
- 120 AH batteries within 38 hours

### Applications

Use the FCI-CHG-120 Battery Charging System when the batteries are required for standby between 25 to 120 A/H. The FCI-CHG-120 has the capability to charge two 26 A/H batteries or two 50 A/H batteries.

### Installation

You can install the FCI-CHG-120 within 20 ft. (6.096 m) from the main fire alarm control panel. There are a variety of mounting options available for the FCI-CHG-120. The FCI-CHG-120 can be mounted in the CAB-4 Series backbox or the FCI-LBB Battery backbox (used for remote installations)



FCI-CHG-120

## FEATURES & BENEFITS

- Complies with the following UL Standards for fire alarm systems:
  - UL Standard 864 for control units
  - UL Standard 1481 for power supplies
- Conforms to NFPA 72 National Fire Alarm Code
- Operates on any 24-volt FACP that requires the specified batteries and can disable the local charger
- Charges sealed lead-acid batteries
- Includes an automatic float-type battery charger
- Obtains a full float voltage within 48 hours
- Supports AC fail delay (central station applications) per the latest NFPA Standards
- Offers ratings for batteries of 25 to 120 ampere-hours
- Provides Form-C Trouble contact and dual outputs for easy load distribution

## CAB-4 Series Backbox Installation

To mount the FCI-CHG-120 to the CAB-4 Series backbox, do the following:

1. Mount the FCI-CHG-120 in the main power supply position on the lower left corner of the CAB-4 Series backbox.
2. Position the FCI-CHG-120 in the lower right location (usually located where the batteries are mounted) of the CAB-4 Series backbox.
3. To secure the FCI-CHG-120 to the CAB-4 Series backbox, use self-tapping screws.

## FCI-LBB Backbox Remote Installation

To mount the FCI-CHG-120 to the FCI-LBB Series backbox, do the following:

1. Mount the FCI-CHG-120 in the left side of the FCI-LBB backbox.
2. To secure the FCI-CHG-120 to the FCI-LBB Series backbox, use self-tapping screws.

Only one 55 A/H battery or two A/H batteries will mount with the charger board in the BB-FF/FCI-LBB cabinet. The following list the types of batteries:

- Up to two 26 A/H batteries
- Up to two 55/60 A/H batteries
- One 100 A/H battery

When the FCI-CHG-120 is mounted internally, the following batteries can be used:

- Up to two 26 A/H batteries
- Up to two 55/60 A/H batteries
- One 100 A/H battery

When the 100 A/H batteries are required, use an FCI-LBB backbox to mount each 100 A/H battery. The FCI-CHG-120 can mount in either the CAB-4 Series backbox, or a third FCI-LBB backbox in this configuration.

## Ordering Information

**FCI-CHG-120** : Battery charger circuit board and mounting chassis (Includes mounting hardware and installation instructions)

**BAT-12260**: 26 A/H, 12-volt, sealed lead-acid battery

**BAT-1250**: 55 A/H, 12-volt, sealed lead-acid battery

**BAT-121000**: 100 A/H, 12-volt, sealed lead-acid battery

**FCI-LBB**: Battery backbox (black)

The battery backbox holds the following:

- two BAT-12550 55 A/H batteries or
- one BAT-121000 100 A/H battery

### Dimensions:

**FCI-LBB Backbox**: 24" W x 14" H x 7.75" D  
(61 W x 35.6 H x 19.7 D cm)

**Door**: 24.125" W x 14.25" H x 0.063" D  
(61.3 W x 36.2 H x 0.16 D cm)

# FCI-CHG-120 Technical Specifications

## SPECIFICATIONS

**Primary AC (TB1):** 115 VAC, 60 Hz, 2 A. 230 VAC, 50 Hz 1

**Form-C Relay (TB3):** 5 A @ 30 VDC

**Float Charge Voltage:** 27.6 VDC

**Maximum Charging Current:** 4.5 A

**Fuses F1-F3:** 15 A

**Battery Sizes:** 25 A/H to 120 A/H

**Charging time (to charge two (2) fully discharged batteries):** 25 A/H battery 9 hours charging time

55 A/H battery 20 hours charging time

120 A/H battery 38 hours charging time

## 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 FCI-CHG-120 is designed to comply with the following standards:

**UL Standards:** 864 9th Edition for controls  
1481 for power supplies

## 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:** S674

**FM Approved:** 3022355

**MEA Approved:** 195-97-E, 345-02-E, 317-07-E

**FDNY Approved:** 6026

**CSFM:** 7165-1703:0125, 6911-1703: 0118

**ULC Approved:** CS118/CS733 Vol. 9

**ISO 9001 Certification**

For a complete listing of all compliance approvals and certifications, please visit:

<http://www.gamewell-fci.com/en-US/documentation/Pages/Listings.aspx>

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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.

## For more information

Learn more about Gamewell-FCI's FCI-CHG-120 and other products available by visiting [www.Gamewell-FCI.com](http://www.Gamewell-FCI.com)

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