

CHG-120

Battery Charger



Power Supplies

General

The CHG-120 is a state-of-the-art battery charging system designed for use with the NOTIFIER Fire Alarm Control Panels. It is designed to charge lead-acid batteries between 25 and 120 ampere-hours (AH).

Features

- Charges sealed lead-acid batteries.
- Automatic float-type battery charger.
- Rated for batteries of 25 to 120 ampere-hours.
- Obtains full float voltage within 48 hours.
- For use on any 24-volt FACP which can handle the specified batteries and can disable the local charger.
- AC Fail delay (central station applications) per latest NFPA requirements.
- Form-C Trouble contact.
- Dual outputs, for easy load distribution.
- **Diagnostic LEDs:**
 - Primary AC On
 - Charger Trouble
 - Ground Fault
 - Hi Charge
 - Lo Charge
 - Battery Voltage Level (3 LEDs)
 - Low Battery
- Optional NFS-LBB battery cabinet.
- Field-selectable input voltage, 120 VAC or 230 VAC.
- **Charges:**
 - 25 AH batteries within 9 hours.
 - 55/60 AH batteries within 20 hours.
 - 120 AH batteries within 38 hours.

NOTE: Values per NOTIFIER testing.

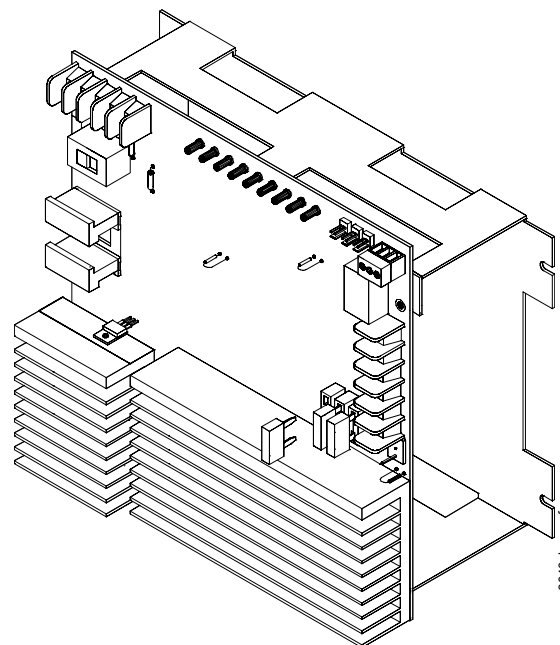
Construction and Operation

The CHG-120 consists of a PC board and mounting chassis.

Applications

Use the CHG-120 when batteries required for standby are rated between 25 to 120 AH.

Charges two 26 AH or two 50 AH batteries.



CHG-120 Specifications

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

Form-C relay (TB3): 5 A at 30 VDC.

Float charge voltage: 27.6 VDC.

Maximum charging current: 4.5 A.

Fuses F1-F3: 15 A.

Battery sizes: 25 AH to 120 AH.

Charging time (to charge two fully discharged batteries):
25 AH = 9 hours; 55 AH/60 AH = 20 hours; 120 AH = 38 hours.

Installation

The CHG-120 has a variety of mounting options. It can be mounted in either a CAB-4 Series backbox or remotely in the NFS-LBB Battery Backbox. Install the CHG-120 within 20 feet (6.096 m) of the main FACP.

When mounting in a CAB-4 Series backbox:

1. The CHG-120 can be mounted in the main power supply position, on the lower left of the CAB-4 Series backbox.
2. Using self-tapping screws, the CHG-120 can be mounted in the lower right position (normally, where the batteries are mounted) of the CAB-4 Series backbox.

When mounting remotely in the NFS-LBB:

1. The CHG-120 mounts in the left position of the backbox.

NOTE: Only one 55 AH battery or two 26 AH batteries will mount with the charger board in the BB-55/NFS-LBB.

NFS-LBB Battery Box Battery Configurations: The BB-55/NFS-LBB battery backbox can mount configurations of batteries as follows:

- Without CHG-120 mounted internally:

- Up to two 26 AH batteries.
- Up to two 55/60 AH batteries.
- One 100 AH battery.
- With CHG-120 mounted internally:
 - Up to two 26 AH batteries.
 - One 55/60 AH battery.
 - One 100 AH battery.

NOTE: When 100 AH batteries are required, a NFS-LBB is required to mount each 100 AH battery. The CHG-120 can mount in either the CAB-4 Series backbox or in a third NFS-LBB in this configuration.

Product Line Information

CHG-120: Battery charger circuit board and mounting chassis. Includes mounting hardware and installation instructions.

BAT-12260: 26 AH, 12-volt, sealed lead-acid battery. See data sheet DN-6933.

BAT-12550: 55 AH, 12-volt, sealed lead-acid battery. See data sheet DN-6933.

BAT-121000: 100 AH, 12-volt, sealed lead-acid battery. See data sheet DN-6933.

NFS-LBB: Battery Backbox — holds up to two BAT-12550 55 AH batteries or one BAT-121000 100 AH battery. Dimensions: Box: 24.0" (61.0 cm) wide x 14.0" (35.6 cm) high x 7.75" (19.7

cm) deep. Door: 24.125" (61.3 cm) wide x 14.25" (36.2 cm) high x (door adds 0.063" [approx. 0.16 cm] to depth), black.

NFS-LBBR: Same as BB-55 above but painted red.

Compliance with Codes and Standards

The CHG-120 complies with the following standards:

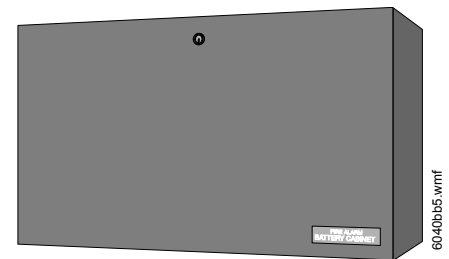
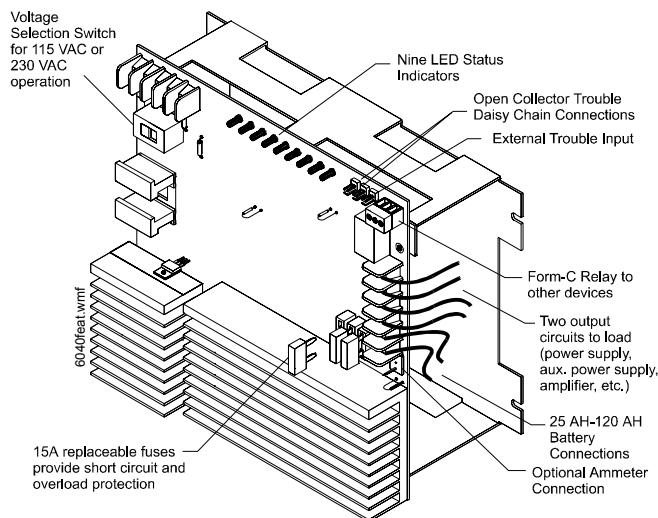
- NFPA 72 National Fire Alarm Code.
- UL 864 Standard for Control Units for Fire Alarm Systems.
- UL 1481 Power Supplies for Fire Alarm Systems.
- CAN/ULC-S527-M87.

Agency Listings and Approvals

The listings and approvals below apply to the basic CHG-120. 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:** S674
- **ULC:** CS118/CS733 Vol. 9
- **FM:** Approved
- **CSFM:** 7315-0028:189
- **MEA:** 195-97-E, 345-02-E, 317-01-E
- **FDNY:** #6026

CHG-120 Features



NFS-LBB Battery Backbox

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