CHG-120

Battery Charger

NOTIFIER® by Honeywell

Power Supplies

General

The CHG-120 is a state-of-the-art battery charging system designed for use with NOTIFIER Fire Alarm Control Panels (FACPs). 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.
- Black or red NFS-LBB(R) battery cabinet (optional).
- Field-selectable input voltage, 120 VAC or 230 VAC.
- **Charges:**
  - 26 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. Charging current is provided automatically when the battery voltage falls below the charger's output voltage.

Applications

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

CHG-120 Specifications

Primary AC (TB1):

- 115 VAC, 60 Hz, 2 A.
- 230 VAC, 50 Hz, 1 A.

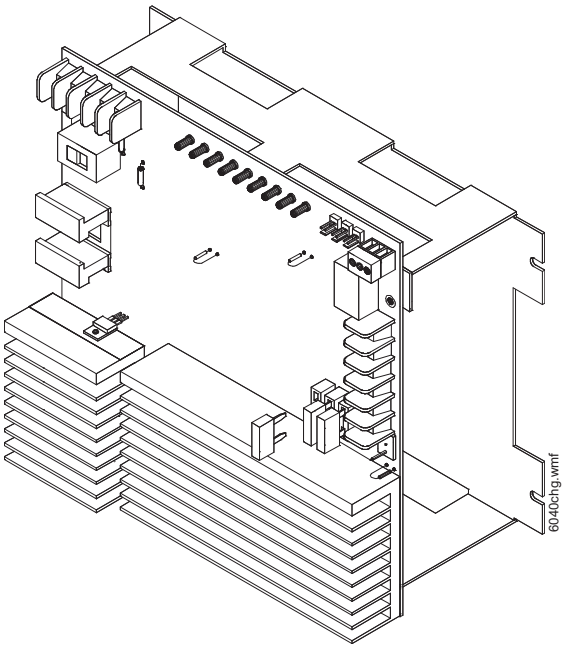
Form-C relay (TB3): 5 A at 30 VDC.

Float charge voltage: 27.6 VDC.

Maximum charging current: 4.5 A.

Fuses F1-F3: 15 A.

Battery sizes: 26 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:

- The CHG-120 can be mounted in the main power supply position, on the lower left of the CAB-4 Series backbox.
- 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:

- 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 NFS-LBB.*

NFS-LBB Battery Box Battery Configurations: The 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. Order as bulk pack BAT-12260-BP, contains two. *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 **NFS-LBB** above but painted red.

Compliance with Codes and Standards

The CHG-120 complies with the following standards:

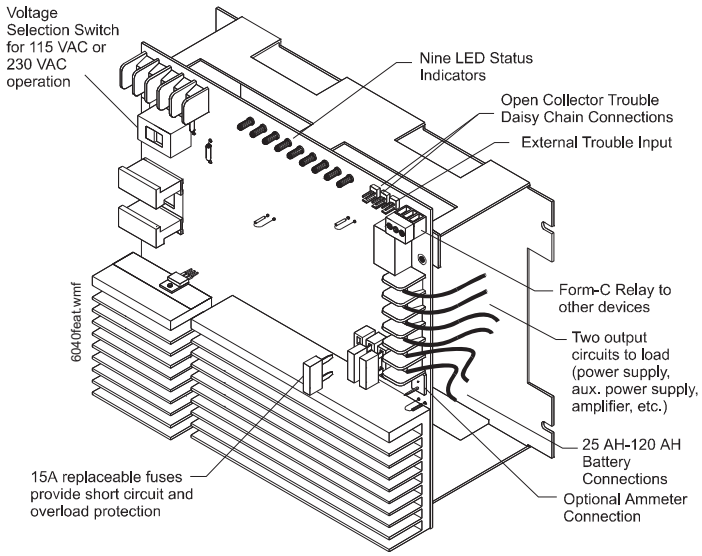
- NFPA 72 National Fire Alarm Code.
- UL 864 Standard for Control Units for Fire Alarm Systems.
- UL 1481 Power Supplies for Fire Alarm Systems.
- CAN/ULC-S527-M87.

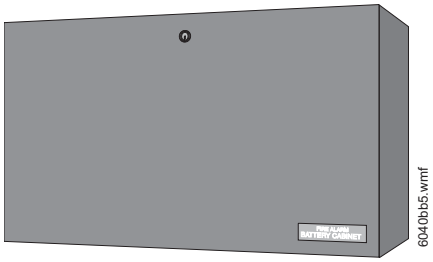
Agency Listings and Approvals

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:** S635.
- **FM:** Approved.
- **CSFM:** 7315-0028:0189.
- **MEA:** 195-97-E, 345-02-E.
- **FDNY:** #6114.

CHG-120 Features





NFS-LBB Battery Backbox

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We cannot cover all specific applications or anticipate all requirements.
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