AMPS-24

Power Supply
for the NFS-3030, NFS2-3030, and NCA-2

®
NOTIFIER
by Honeywell

Power Supplies

GENERAL

NOTIFIER's AMPS-24 is an addressable power supply and battery charger with two 24 VDC outputs. It operates in either FlashScan® or CLIP (Classic Loop Interface Protocol) mode with the NFS-3030/NFS2-3030 Fire Alarm Control Panel (FACP). It can also be used as the primary power supply for the NCA-2 Network Control Annunciator.

- Addressable by NFS-3030/NFS2-3030 FACP.
- Selectable charging current charges 25 AH to 200 AH batteries.
- Isolated Signaling Line Circuit (SLC) interface.
- Brownout detection.
- Battery/battery charger supervision.
- AC loss detection and AC loss delay reporting.
- Mounts in a CAB-4 Series enclosure, EQ Cabinet Series enclosure, BB-25, BB-100, or BB-200 Battery Backbox.

SPECIFICATIONS

- **Primary (AC) power (TB3):** *for AMPS-24:* 110-120 VAC 50/60 Hz input, 4.5 A maximum; *for AMPS-24E:* 240 VAC 50/60 Hz input, 2.25 A maximum.
- **Output (TB6):** One *5 VDC* @ 1.0 A, non-power-limited (supervised). One *24 VDC* @ 1.0 A, non-power-limited (supervised, power-limited if 5V output is not used). *Maximum ripple voltage:* 250 mVrms (24 VDC and 5 VDC).
- **Source (TB2):** One +24 VDC @ 4.5 A, filtered, non-power-limited. *Maximum output:* 4.2 A when 5 V output (TB6) is used; 3.5 A when 24 VDC output (TB6) is used; 3.2 A when *both outputs* on TB6 are used. *Maximum ripple voltage:* 250 mVrms.
- **Secondary power (battery) charging circuit (TB4, TB5):** Current-limited, sealed lead-acid battery charger which will charge 25 to 200 AH batteries. *Selectable charging current:* 2.0 A or 5.0 A.
- **Wire sizes:** 12 AWG (3.1 mm²) to 18 AWG (0.78 mm²).
- **Battery fuse (F2):** 10 A, 3AB.

See page 1 for LED indicators and DIP switch settings.

PRODUCT LINE INFORMATION

AMPS-24: Addressable power supply/battery charger, two 24 VDC outputs, 120 VAC.
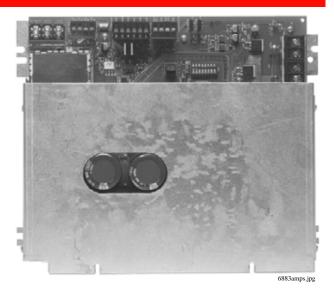
AMPS-24E: Same as AMPS-24, but 240 VAC.

AGENCY LISTINGS AND APPROVALS

These listings and approvals apply to the AMPS-24 power supply. 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:** S635
- **ULC:** CS118
- **City of Chicago**
- **City of Denver**
- **MEA:** 345-02-E
- **CSFM:** 7170-0028:223, 7165-0028:224

6883amps.jpg

- **FM:** Approved

LED INDICATORS

LED1 (green): AC, illuminates when there is AC power. Blinks slowly until AC delay expires.

LED2 (yellow): BAT/CHG, illuminates when there is a battery or charger trouble.

LED3: Not used.

LED4 (yellow): TRBL, will illuminate or blink, pause, and repeat (as specified in following descriptions) when the following troubles occur:

- **Brownout Trouble:** 1 blink (after AC delay expires).
- **Internal Power Failure:** 2 blinks.
- **Incorrect SLC Address Selection:** 3 blinks.
- **Battery Charger Shutdown:** 5 blinks.
- **Accessories Output Overload:** 6 blinks.
- **Panel Output Overload/Accessories Output Shutdown:** ON (check LED8 and/or LED10 to determine condition).

LED5 (green): SLCRXA, blinks when data is received from the SLC.

LED6 (yellow): UCFAILURE, illuminates if the microcontroller fails.

LED7 (green): SLCTXA, blinks when data is transmitted to the SLC.

LED8 (green): ACCESSORIES, illuminates when the Accessories Output (TB6) is active. OFF during overload on TB6 or when total load on TB2 and TB6 exceeds 5 A.

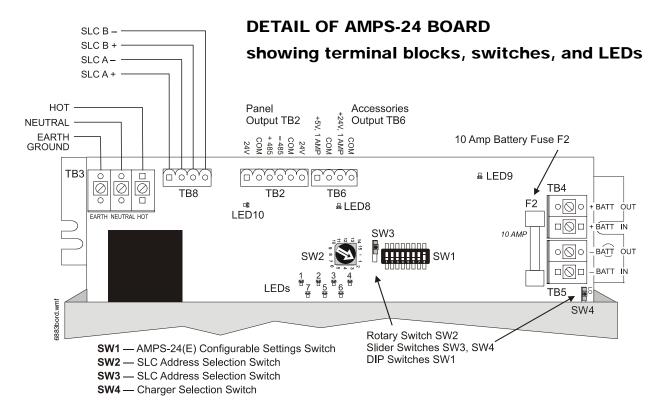**LED9 (yellow):** GND FLT, illuminates when a ground fault is detected on any output or battery lead.

LED10 (green): 24VPANEL, illuminates when the Panel Output (TB2) is active. OFF during overload.

DIP SWITCH (SW1) SETTINGS

1.1 and 1.2:

- 1.1 OFF and 1.2 OFF: U.S. AC Delay OFF (do not use with the NFS-3030/NFS2-3030).
- 1.1 OFF and 1.2 ON: U.S. 8-hour AC Delay (do not use with the NFS-3030/NFS2-3030).
- 1.1 ON and 1.2 OFF: U.S. 16-hour AC Delay (do not use with the NFS-3030/NFS2-3030).
- 1.1 ON and 1.2 ON: Trouble Reporting for AMPS-24 addresses (SLC address, B = base): Monitor General (B);

Monitor AC Fail (B + 1); Monitor Battery (B + 2); Monitor Earth Fault (B + 3).

1.3: factory set.

1.4: factory set.

1.5: factory set.

1.6: factory set.

1.7: factory set.

1.8: ON = Disable Battery Charger (disable the battery charger when batteries are charged by another power supply); OFF = Enable Battery Charger.

DETAIL OF AMPS-24 BOARD
showing terminal blocks, switches, and LEDs

SW1 — AMPS-24(E) Configurable Settings Switch
SW2 — SLC Address Selection Switch
SW3 — SLC Address Selection Switch
SW4 — Charger Selection Switch

ISO 9001 CERTIFIED
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.

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