ACPS-610

Addressable Charger/Power Supply

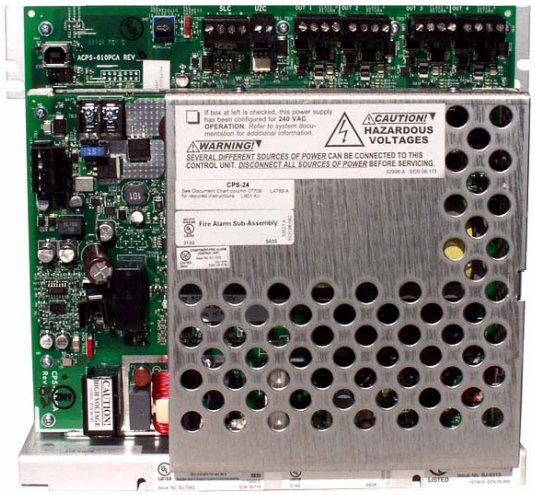
General

The ACPS-610(E) is an auxiliary power supply with a battery charging option and a host of special features. Selectable charging options allow the ACPS-610(E) to provide 6 amps of shared power to four outputs while charging batteries from 12 to 200 AH, or 10 amps of shared power when the unit is configured for use with an external battery charger. Four individually addressable outputs can be independently configured for auxiliary power or Notification Appliance Circuits (NAC). NAC outputs support notification appliance synchronization for devices manufactured by System Sensor®, Wheelock, and Gentex. An option to disable battery charging allows the system designer to use the four built-in circuits to distribute 10 amps of power for general purposes, excluding NAC applications.

The ACPS-610(E) is compatible with IFC intelligent fire alarm control panels using CLIP and FlashScan® protocol.

Features

- Listed to UL Standard 864, 9th Edition.
- Provides 6.0 A of NAC power or 10 A of general purpose power.
- Four Class B (Style Y) or four Class A (Style Z) outputs, individually addressable by the FACP.
- When built-in outputs are configured for NAC operation, each circuit supports strobe synchronization with the following manufacturers' audio/visual devices: System Sensor (SpectrAlert® and SpectrAlert Advance Series) or Wheelock or Gentex.
- Each circuit can be software-selected for use as: a Notification Appliance Circuit, general purpose 24 VDC power, four-wire detector power, or door holder.
- Steady, March Time (120 PPM), Two Stage, Temporal, or UZC Zone-Coded and Non-Coded devices - software-selectable by circuit.
- Universal Zone Coder (UZC-256) option supports for programmable coded outputs. Up to 256 different codes.
- Auxiliary Outputs: 24V @ 0.5A and 5V @ 0.15A
- Charges 12 to 200 AH batteries with full supervision. The charger on the ACPS may be disabled via software. When disabled, a separate, external charger is required , for example a CHG-120.
- May be used to provide battery backup for multiple ACPS supplies.
- AC loss detection, brownout detection, and AC loss delay reporting.
- Power-limited outputs.
- Isolated Signaling Line Circuit (SLC) interface.
- Selectable ground fault detection.
- Canadian two stage operation.



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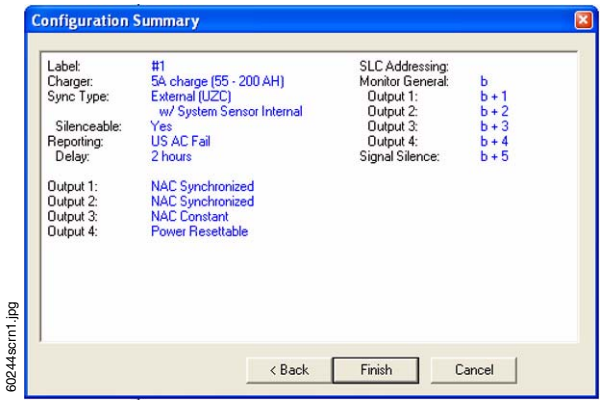
Specifications

- Primary (AC) power:
  - ACPS-610: 120 VAC, 50/60 Hz input, 5.0 A maximum
  - ACPS-610E: 220/240 VAC, 50/60 Hz input, 2.5 A maximum
- Output voltage: 24 VDC electrically regulated and power limited (under primary AC mains). Under secondary power, 20.4 to 26.4 VDC.
- Output circuits - TB3, TB4, TB5, TB6 on Main Board: 1.5 A maximum for any NAC output circuit. 2.5 A maximum for any Power output with battery charger disabled.
- Secondary power (battery) charging circuit - lead-acid battery charger which will charge 12 to 200 AH batteries. Maximum charger current - 5.0 A.
- Secondary power auxiliary outputs - TB2 on CPS-24 Board:
  - 24V @ 0.5A, power limited
  - 5V @ 0.15A, power limited
- Wiring: utilizes wire sizes 12 to 18 AWG (3.1 to 0.78 mm^2).
- SLC specifications: Average SLC current is 1.287 mA. SLC data is transmitted between 24.0 VDC, 5 VDC, and 0 VDC at approximately 3.33 Kbaud.
- Battery fuse (F2): 15A, Fast-acting
- Weight: 4.5 lb

ACPS Programming

The ACPS-610(E) is programmable via the simple-to-use PK-PPS programming utility, which requires a Windows® PC with a USB port and cable. A copy of the PK-PPS programming utility is included with each ACPS-610(E). Programming may be performed during an on-line session with the ACPS-610(E), or previously saved programs may be downloaded to individual ACPS-610(E) units. The ACPS-610(E) requires the use of a minimum of 5 SLC address points, and will use up to 14 SLC address points to fulfill requirements for Canadian supervision and two stage operation.



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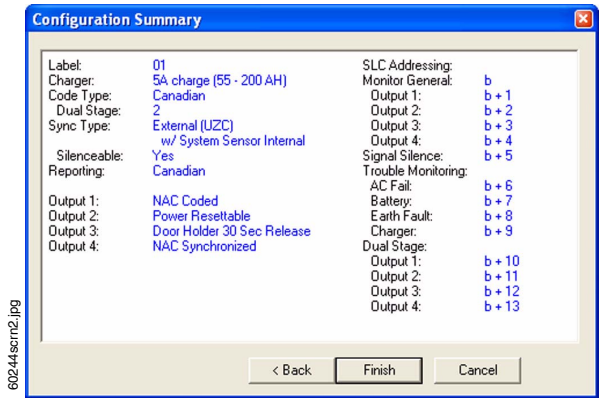
Example of Programming for the ACPS-610 Using 6 Addresses



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Example for ACPS-610 Using Canadian Reporting with Two Stage.

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 factory for latest listing status.

- **UL Listed:** S635
- **ULC Listed:** S635
- **FM Approved**
- **CSFM:** 7315-0028:248
- **MEA #30-08-E**

Product Line Information

ACPS-610: Addressable charger power supply, with selectable built-in synchronization, and four built-in control modules. Includes installation instructions and PK-PPS programming utility CD. Requires Windows PC with USB port and USB cable. Several mounting options available (see below).

ACPS-610E: Same as ACPS-610, but configured for 220/240 VAC operation.

CAB-PS1: The CAB-PS1 can house one ACPS-610(E) and two 12 AH batteries. Dimensions: 15.218" (38.654 cm) high x 14.5" (36.83 cm) wide x 3.562" (9.048 cm) deep with door.

DR-PS1: When installing an ACPS-610(E) into an older version of the CAB-PS1 used for an ACPS-2406(E), the new wider door must be ordered for use with the older version cabinet.

BB-25: The BB-25 can house one ACPS-610(E) and two 12 volt, 26 AH batteries.

CAB-4 Series: The ACPS-610(E) can mount in any of the CAB-4 Series cabinets. This can be in the bottom of the cabinet or a tier via a CHS-PS and CHS-BH. See CAB-4 Series data sheet (JCI-6857).

EQ Cabinet Series: The ACPS-610(E) can mount in any of the EQ Cabinet Series cabinets. See EQ Cabinet Series data sheet (JCI-60263).

CHS-PS/CHS-6: Power supply mounting plate. Optional kit used to mount the ACPS-610(E) in a location other than the bottom of the CAB-4 cabinet or in an EQ Series cabinet (e.g., 2nd, 3rd, or 4th tier).

CHS-BH: Battery mounting chassis used to mount batteries in a location other than the bottom of the CAB-4 cabinet (e.g., 2nd, 3rd, or 4th tier).

Batteries: ACPS-610(E) battery charging circuit range is 12 - 200 AH. See BAT Series data sheet (JCI-6933).

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.

Made in the U.S. A.

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