

FEATURES

- 3-Unsupervised active-low 2A outputs activated by AC FAIL, BATTERY TBL and MICRO TBL
- One supervised GEMC-Remote Bus interface
- One normally-closed (N/C) housing tamper input, identified by trouble on dedicated integral EZM zone
- 4 status LEDs
- Power supply contains integral battery charger capable of charging up to 1 pair of 12AH/12V sealed lead acid batteries
- The system monitors for low battery, no battery, brownout; monitors battery charging circuit voltage, identified by trouble on dedicated integral EZM zone
- Solid state over-current protection
- Integral housing tamper switch inputs protecting the unauthorized opening of the housing cover and a rear tamper protecting the removal of the housing from its mounting surface
- Cabinet housing included
- Automatic switchover to stand-by battery when AC fails
- In Commercial installations, the power supplies are not to be employed as a power source for local audible alarm sounding devices or for off-premises alarm transmitter/communicators.

OVERVIEW

There are two versions of the **GEMC-12V2APS**: **GEMC-12V2APS-CF** (Commercial Fire) contains a transformer mounted inside the housing that requires a licensed electrician to wire. The **GEMC-12V2APS-R** (Residential Fire/Burglary, Commercial Burglary) is shipped without a transformer mounted inside the housing. It uses a plug-in 16.5VAC, 50VA class 2 transformer that does not require an electrician to wire. Both versions use the GEMC-12V2ABOARD UL Listed Subassembly. The GEMC-12V2APS-CF or GEMC-12V2APS-R can be used as either:

- A UL Listed Accessory to a Gemini C-Series

12V / 2A Power Supply

GEMC-12V2APS-CF

GEMC-12V2APS-R



AGENCY LISTINGS

- UL365: Police Station Alarm Units
- UL609: Local Burglar Alarm Units and Systems
- UL864 9th Edition: Commercial Fire
- UL985: Household Fire Warning System Units
- UL1023: Household Burglar Alarm System Units
- UL1610: Central Station Burglar Alarm Units
- UL294: Access Control Systems
- NFPA 72 National Fire Alarm Code
- Security Industry Association (SIA) False Alarm Reduction Standard CP-01
- CSFM: California State Fire Marshall (Fire Systems Only)
- NYCFD: NYC Fire Department (Fire Systems Only)

Combination Fire & Burglary Alarm control panel and GEMINI series control panels (GEM-X255, GEM-P9600, GEM-P3200, Freedom F-64, GEM-P1664, GEM-P1632 and GEM-P816).

--or--

- A UL Listed power supply for use with any Listed Fire Alarm Control Panel (FACP), burglary control panel or access control system requiring additional 12VDC auxiliary power. Both versions use the GEMC-12V2ABOARD UL Listed subassembly, suitable for use as a replacement board.

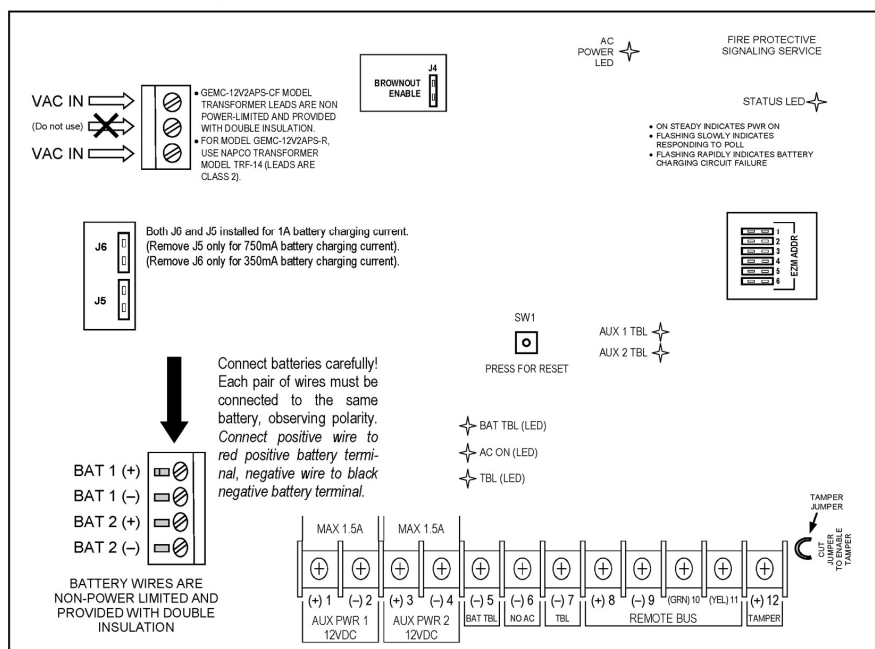
GEMC-12V2APS-CF SPECIFICATIONS

Primary Input Power	(Use dedicated 15A circuit for input power) 120VAC, 60Hz, 1A.
Secondary Input Power	Minimum two 12V / 4AH batteries; two 12AH batteries maximum
Total Output Power	12VDC, 2A max combined alarm and standby current (less 40mA standby current for power supply board)
Two Auxiliary Power Outputs	12V Regulated, 1.5A maximum each; 0.80A @ 12V combined maximum standby current for 24 hours.
Standby Current	40mA for main board (subtract from overall rating)
NO AC	Active Low, switches up to 2A DC. Normally active, turns off when no AC or brownout is detected. Connect to power-limited circuits only, 30VDC maximum.
BAT TBL	Active Low, switches up to 2A DC. Normally active, turns off when no battery, low battery and/or battery charging circuit trouble is detected. Connect to power-limited circuits only, 30VDC maximum.
TBL	Active Low, switches up to 2A DC. Normally active, turns off when microprocessor stops functioning, no AC, brownout or battery trouble. Connect to power-limited circuits only, 30VDC maximum.
Operating Temperature	32°F to 120°F (0°C to 49°C)
Operating Humidity Range	Maximum 85% relative humidity @ 30°C
Enclosure Dimensions (WxHxD)	13.875" x 12.375" x 3.80" (enclosure not provided with the GEMC-12V2ABOARD)

GEMC-12V2APS-R SPECIFICATIONS

Primary Input Power	120VAC, 60Hz, 60W
Secondary Input Power	Two 12AH batteries maximum.
Total Output Power	2.1A minus selected charging current
Two Auxiliary Power Outputs	12V Regulated, 1.5A maximum each; 0.80A @ 12V maximum standby current for 24 hours
Standby Current	40mA for main board (less 40mA standby current for power supply board)

REGULATED POWER SUPPLY: GEMC-12V2APS-CF, GEMC-12V2APS-R & GEMC-12V2ABOARD WIRING DIAGRAM



1. MAX COMBINED 12V REGULATED (MAX 0.5V RIPPLE) **AUX PWR** OUTPUT = 2 AMPS FOR -CF VERSION, 1.75A FOR -R VERSION (**LESS 40mA STANDBY CURRENT FOR POWER SUPPLY BOARD**).
2. INPUT RATED 120V, 1A, 60HZ FOR -CF VERSION; 120V, 60HZ, 60W FOR -R VERSION.
3. MAX 12V REGULATED (MAX 0.5V RIPPLE) **AUX PWR** OUTPUT FROM EITHER OUTPUT = 1.5 AMPS.
4. REFER TO WH1828 FOR ADDITIONAL INSTALLATION INSTRUCTIONS AND STANDBY CURRENT BATTERY CHARTS.
5. **AUX PWR 1, AUX PWR 2, AND REMOTE BUS** WIRES ARE POWER LIMITED.
6. CONNECT **BAT TBL, NO AC** AND **TBL** TERMINALS ONLY TO POWER LIMITED SOURCES MAX 30V, 2A.
7. ROUTE POWER LIMITED WIRING OUTSIDE OF TRANSFORMER COMPARTMENT.
8. STANDBY CURRENT DETERMINED BY BATTERIES AND APPLICATION.
9. WIRE RANGE 14-22AWG. MAXIMUM TWO WIRES PER TERMINAL. EXCEPTION: ONE WIRE PER TERMINAL FOR BATTERY TERMINAL BLOCK AND "VAC IN" TERMINAL BLOCK.
10. INSTALL IN ACCORDANCE WITH NFPA 72 AND ALL LOCAL CODES.