

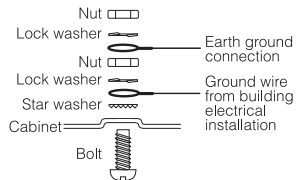
2.4.14 Ground Wiring

NOTE: Using an insulated green wire (minimum 22AWG), connect the EGND terminal on the Corbus and the grounding wire from the building electrical installation to any of the available holes on the back or side of the metal cabinet. See the diagram attached to the cabinet for suggested GND point location and hardware recommendations.

NOTE: Wire and installation hardware not included.

Diagram 2-18: Ground Installation

Tighten nut to break paint and make good connection to the cabinet



2.4.15 Connecting Power

The alarm controller requires a 16.5V, 40VA transformer. While unplugged, connect the transformer to the AC terminals on the controller. The alarm controller can be programmed to accept a power line frequency of either 50Hz AC or 60Hz AC. See programming section [024], option [1].

NOTE: For UL/ULC installations use only 60Hz. For ULC S559 applications, Standex transformer (Model FTC3716) shall be employed for direct-wiring.

AC (UL Listed Installations)

Primary: 120VAC/60Hz./0.33A

Secondary: 16.5VAC/40VA DSC PTD1640U, DSC PTC1640U Class 2 transformer.

NOTE: Use DSC PTD1640 for Canadian installations.

WARNING:: Do not connect the battery or transformer until all other wiring is complete.

Batteries

Do not connect the battery until all other wiring is complete.

NOTE: A sealed, rechargeable, lead acid battery or gel type battery is required to meet UL requirements for power standby times.

Connect the RED battery lead to the positive battery terminal and the BLACK battery lead to the negative battery terminal.

The panel can be programmed to charge the battery at 400mA or 700mA. (See "[982] Battery Settings" on page 54).

NOTE: Refer to Aux Loading and Battery Selection on page 112.

Battery Selection Charts

Use the following chart to determine the battery required to support the main panel for either 4 hours or 24 hours in the standby mode. The battery size is measured in amp hours (Ah).

Table 2-12: Standby Battery Guide

Battery Charging Current: 400mA/700mA*		
Battery Size	Standby	
	4Hr	24Hr
4Ahr	700mA	----
7Ahr	700mA	180mA
14Ahr	700mA	470mA

* with high current battery charge option enabled: [982] bit 1.

NOTE: Battery capacity deteriorates with age and the number of charge/discharge cycles. Replace every 3-5 years.

Refer to Appendix D: Regulatory Approvals on page 110 for detailed Aux. loading and battery charging information.

Aux Loading and Battery Selection

HS2128/HS2064/HS2032/HS2016 Board current draw mA	UL Resi Burg ULC Resi Burg	UL Com Burg	UL Resi Fire UL Home Health Care ULC Resi Fire ULC Com Burg	ULC Fire Monitoring	EN50131 Grade 2/Class II
Max AUX (NSC) current loading	0.7A	0.7A	0.5A	0.5A	
Max BELL (Alarm) current loading	0.7A	0.7A	0.7A	0.7A (no local alarm notification allowed, only remote transmission to SRC)	0.7A
UL/ULC Listed enclosure	PC500C PC5003C	CMC-1 PC4050CAR	PC5003C	PC5003C PC4050CR (red/transformer mounted inside)	PC5003C Power UC1
Transformer requirements	16.5V/40VA (plug in type) PTC1640U (USA) PTC1640CG (CND)			FTC1637 (cUL listed) 16.5V/37VA (Hardwired type, mounted inside the enclosure or outside using electrical box)	16.5V/40VA (hardwired type, mounted inside the cabinet)
Battery Capacity requirements	7Ah	7Ah	14Ah (2 x 7Ah in parallel)	14Ah (2 x 7Ah in parallel)	7Ah
Standby Time	4 hours	4 hours	24 hours	24 hours	12 hours
Alarm time	4 minutes	15 minutes	4 min (UL resi fire) 5 min (Home Health Care and ULC Resi Fire)	5 minutes (Alarm Transmission only)	N/A
Recharging current setting	mA, 700mA	mA, 700mA	mA, 700mA	mA, 700mA	mA, 700mA