Classic Battery Cabinet for IEC

For Galaxy VS, Galaxy VL, Galaxy PX, and Easy UPS 3-Phase Modular

Installation

GVSCBC7C, GVSCBC7D, GVSCBC7E, GVSCBC10A2, GVSCBC10B2

Latest updates are available on the Schneider Electric website

7/2026

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Important Safety Instructions — SAVE THESE INSTRUCTIONS

Read these instructions carefully and look at the equipment to become familiar with it before trying to install, operate, service or maintain it. The following safety messages may appear throughout this manual or on the equipment to warn of potential hazards or to call attention to information that clarifies or simplifies a procedure.

The addition of this symbol to a “Danger” or “Warning” safety message indicates that an electrical hazard exists which will result in personal injury if the instructions are not followed.

This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages with this symbol to avoid possible injury or death.

⚠ DANGER

DANGER indicates a hazardous situation which, if not avoided, **will result in** death or serious injury.

Failure to follow these instructions will result in death or serious injury.

⚠ WARNING

WARNING indicates a hazardous situation which, if not avoided, **could result in** death or serious injury.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

⚠ CAUTION

CAUTION indicates a hazardous situation which, if not avoided, **could result in** minor or moderate injury.

Failure to follow these instructions can result in injury or equipment damage.

NOTICE

NOTICE is used to address practices not related to physical injury. The safety alert symbol shall not be used with this type of safety message.

Failure to follow these instructions can result in equipment damage.

Please Note

Electrical equipment should only be installed, operated, serviced, and maintained by qualified personnel. No responsibility is assumed by Schneider Electric for any consequences arising out of the use of this material.

A qualified person is one who has skills and knowledge related to the construction, installation, and operation of electrical equipment and has received safety training to recognize and avoid the hazards involved.

Per IEC 62040-1: "Uninterruptible power systems (UPS) -- Part 1: Safety Requirements," this equipment, including battery access, must be inspected, installed and maintained by a skilled person.

The skilled person is a person with relevant education and experience to enable him or her to perceive risks and to avoid hazards which the equipment can create (reference IEC 62040-1, section 3.102).

Safety Precautions

⚠⚠DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

Read all instructions in the installation manual before installing or working on this product.

Failure to follow these instructions will result in death or serious injury.

⚠⚠DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

Do not install the product until all construction work has been completed and the installation room has been cleaned.

Failure to follow these instructions will result in death or serious injury.

⚠⚠DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

The product must be installed according to the specifications and requirements as defined by Schneider Electric. It concerns in particular the external and internal protections (upstream disconnect devices, battery disconnect devices, cabling, etc.) and environmental requirements. No responsibility is assumed by Schneider Electric if these requirements are not respected.

Failure to follow these instructions will result in death or serious injury.

⚠⚠DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

The UPS system must be installed according to local and national regulations. Install the UPS system according to:

- IEC 60364 (including 60364-4-41 – protection against electric shock, 60364-4-42 – protection against thermal effect, and 60364-4-43 – protection against overcurrent), **or**
- NEC NFPA 70, **or**
- Canadian Electrical Code (C22.1, Part 1)

depending on which one of the standards apply in your local area.

Failure to follow these instructions will result in death or serious injury.

⚠⚠DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

- Install the product in a temperature controlled indoor environment free of conductive contaminants and humidity.
- Install the product on a non-flammable, level and solid surface (e.g. concrete) that can support the weight of the system.

Failure to follow these instructions will result in death or serious injury.

⚠⚠DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

The product is not designed for and must therefore not be installed in the following unusual operating environments:

- Damaging fumes
- Explosive mixtures of dust or gases, corrosive gases, or conductive or radiant heat from other sources
- Moisture, abrasive dust, steam or in an excessively damp environment
- Fungus, insects, vermin
- Salt-laden air or contaminated cooling refrigerant
- Pollution degree higher than 2 according to IEC 60664-1
- Exposure to abnormal vibrations, shocks, and tilting
- Exposure to direct sunlight, heat sources, or strong electromagnetic fields

Failure to follow these instructions will result in death or serious injury.

⚠⚠DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

Do not drill or cut holes for cables or conduits with the gland plates installed and do not drill or cut holes in close proximity to the UPS system.

Failure to follow these instructions will result in death or serious injury.

⚠⚠DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

Do not make mechanical changes to the product (including removal of cabinet parts or drilling/cutting of holes) that are not described in the installation manual.

Failure to follow these instructions will result in death or serious injury.

NOTICE

RISK OF OVERHEATING

Respect the space requirements around the product and do not cover the ventilation openings when the product is in operation.

Failure to follow these instructions can result in equipment damage.

Additional Safety Precautions for Tall, Thin, and Heavy Products

These symbols indicate a risk of tip-over and potential crushing injury. When displayed on a product or package, they warn that the item may become unstable due to a high center of gravity, uneven weight distribution, or overall heaviness. Exercise caution when handling or moving the product. Always read and follow any specific handling instructions provided, and consider using professional movers if necessary to ensure safe transport, installation, and decommissioning.

Example of Safety Label

⚠ WARNING

TIP OVER HAZARD

- Read and apply user instructions before work:
  - Secure the product in place.
  - Secure the product if removing the securing bolts or moving the product.
  - Use appropriate lifting equipment.
- Use trained personnel only, who know and understand the user instructions.

Failure to follow these instructions can result in death, serious injury, or product damage.

Electrical Safety

⚠⚠ DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

- Electrical equipment must be installed, operated, serviced, and maintained only by qualified personnel.
- Apply appropriate personal protective equipment (PPE) and follow safe electrical work practices.
- Turn off all power supplying the UPS system before working on or inside the equipment.
- Before working on the UPS system, check for hazardous voltage between all terminals including the protective earth.
- The UPS contains an internal energy source. Hazardous voltage can be present even when disconnected from the mains supply. Before installing or servicing the UPS system, ensure that the units are OFF and that mains and batteries are disconnected. Wait five minutes before opening the UPS to allow the capacitors to discharge.
- The UPS must be properly earthed/grounded and due to a high leakage current, the earthing/grounding conductor must be connected first.

Failure to follow these instructions will result in death or serious injury.

⚠⚠DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

In systems where backfeed protection is not part of the standard design, an automatic isolation device (backfeed protection option or other device meeting the requirements of IEC/EN 62040–1 **or** UL1778 5th Edition – depending on which of the two standards apply to your local area) must be installed to prevent hazardous voltage or energy at the input terminals of the isolation device. The device must open within 15 seconds after the upstream power supply fails and must be rated according to the specifications.

Failure to follow these instructions will result in death or serious injury.

When the UPS input is connected through external isolators that, when opened, isolate the neutral or when the automatic backfeed isolation is provided external to the equipment or is connected to an IT power distribution system, a label must be fitted at the UPS input terminals, and on all primary power isolators installed remote from the UPS area and on external access points between such isolators and the UPS, by the user, displaying the following text (or equivalent in a language which is acceptable in the country in which the UPS system is installed):

⚠⚠DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

Risk of Voltage Backfeed. Before working on this circuit: Isolate the UPS and check for hazardous voltage between all terminals including the protective earth.

Failure to follow these instructions will result in death or serious injury.

Battery Safety

⚠⚠DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION OR ARC FLASH

- Battery circuit breakers must be installed according to the specifications and requirements as defined by Schneider Electric.
- Servicing of batteries must only be performed or supervised by qualified personnel knowledgeable of batteries and the required precautions. Keep unqualified personnel away from batteries.
- Disconnect charging source prior to connecting or disconnecting battery terminals.
- Do not dispose of batteries in a fire as they can explode.
- Failed batteries can reach temperatures that exceed the burn thresholds for touchable surfaces.
- Do not open, alter, or mutilate batteries. Released electrolyte is harmful to the skin and eyes. It may be toxic.

Failure to follow these instructions will result in death or serious injury.

⚠⚠DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

Batteries can present a risk of electric shock and high short-circuit current. The following precautions must be observed when working on batteries:

- Remove watches, rings, or other metal objects.
- Use tools with insulated handles.
- Wear protective glasses, gloves, and boots.
- Do not lay tools or metal parts on top of batteries.
- Disconnect the charging source prior to connecting or disconnecting battery terminals.
- Determine if the battery is inadvertently grounded. If inadvertently grounded, remove source from ground. Contact with any part of a grounded battery can result in electric shock and burns by high short-circuit current. The likelihood of such shock can be reduced if such grounds are removed during installation and maintenance by a skilled person (applicable to equipment and remote battery supplies not having a grounded supply circuit).

Failure to follow these instructions will result in death or serious injury.

⚠⚠DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

When replacing batteries, always replace with the same type and number of batteries or battery packs. Refer to the label in the classic battery cabinet for information on batteries in your system.

Failure to follow these instructions will result in death or serious injury.

⚠CAUTION

RISK OF EQUIPMENT DAMAGE

- Mount the batteries in the UPS system, but do not connect the batteries until the UPS system is ready to be powered up. The time duration from battery connection until the UPS system is powered up must not exceed 72 hours or 3 days.
- Batteries must not be stored more than six months due to the requirement of recharging. If the UPS system remains de-energized for a long period, we recommend that you energize the UPS system for a period of 24 hours at least once every month. This charges the batteries, thus avoiding irreversible damage.

Failure to follow these instructions can result in injury or equipment damage.

Specifications

NOTICE

HAZARD OF EQUIPMENT DAMAGE

Refer to the UPS installation manual for detailed specifications for the UPS system.

Failure to follow these instructions can result in equipment damage.

Classic Battery Cabinet Specifications

⚠⚠DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION OR ARC FLASH

The classic battery cabinet must only be used with the Galaxy VS UPS, the Galaxy VL UPS, or the Easy UPS 3-Phase Modular.

Failure to follow these instructions will result in death or serious injury.

NOTE: Up to two classic battery cabinets (GVSCBC7C, GVSCBC7D, GVSCBC7E, GVSCBC10A2, or GVSCBC10B2) can be connected to the Galaxy VS UPS.

NOTE: Minimum two classic battery cabinets and up to four classic battery cabinets (GVSCBC10A2 or GVSCBC10B2) can be connected to the Galaxy VL UPS.

NOTE: Up to four classic battery cabinets (GVSCBC7C, GVSCBC7D, GVSCBC7E, GVSCBC10A2, or GVSCBC10B2) can be connected to the Easy UPS 3-Phase Modular.

Commercial reference	Battery type	Number of battery blocks
GVSCBC7C	XP12V1800(1) or XP12-240	36
GVSCBC7D	XP12-150	40
GVSCBC7E	XP12-150	46
GVSCBC10A2	XP12-240	48
GVSCBC10B2	XP12-350	40

(1) No longer standard. Can be ordered as Make to Order with specified lead time.

Trip Settings

Trip settings must be controlled during installation. Set the trip settings according to the relevant table below.

GVSCBC7C

UPS rating	**20-50 kW**			**60 kW**			**80 kW**			**100 kW**		
Power factor	**0.8**	**0.9**	**1**	**0.8**	**0.9**	**1**	**0.8**	**0.9**	**1**	**0.8**	**0.9**	**1**
Circuit breaker type	C25S3D + C253MG250D										–	
Ir setting	175			200			250			250		
Im setting	1250											

GVSCBC7D

UPS rating	**20 kW**			**30 kW**			**40-50 kW**			**60 kW**		
Power factor	**0.8**	**0.9**	**1**	**0.8**	**0.9**	**1**	**0.8**	**0.9**	**1**	**0.8**	**0.9**	**1**
Circuit breaker type	C10S3D + C103MG080											
Ir setting	56			72			80			80	–	
Im setting	400											

GVSCBC7E

UPS rating	**20-50 kW**			**60 kW**			**80 kW**		
Power factor	**0.8**	**0.9**	**1**	**0.8**	**0.9**	**1**	**0.8**	**0.9**	**1**
Circuit breaker type	C25S3D + C253MG200D								
Ir setting	140			160			200		
Im setting	1000								

GVSCBC10A2

UPS rating	**20-60 kW**			**80 kW**			**100 kW**			**120 kW**			**150 kW**		
Power factor	**0.8**	**0.9**	**1**	**0.8**	**0.9**	**1**	**0.8**	**0.9**	**1**	**0.8**	**0.9**	**1**	**0.8**	**0.9**	**1**
Circuit breaker type	C25S3D + C253MG250D														–
Ir setting	175			175	175	200	200	225	225	225	250	250	250		
Im setting	1250														

UPS rating	**200 kW**	**250 kW**	**300 kW**	**350 kW**	**400 kW**	**450 kW**	**500 kW**
Power factor	**1**						
Circuit breaker type	C25S3D + C253MG250D						
Number of classic battery cabinets	2 x GVSCBC10-A2	2 x GVSCBC10-A2	3 x GVSCBC10-A2	3 x GVSCBC10-A2	4 x GVSCBC10-A2	4 x GVSCBC10-A2	4 x GVSCBC10-A2

UPS rating	**200 kW**	**250 kW**	**300 kW**	**350 kW**	**400 kW**	**450 kW**	**500 kW**
Power factor	**1**						
Ir setting	225	250	225	250	225	250	250
Im setting	1250						

GVSCBC10B2

UPS rating	**20-80 kW**			**100 kW**			**120 kW**			**150 kW**		
Power factor	**0.8**	**0.9**	**1**	**0.8**	**0.9**	**1**	**0.8**	**0.9**	**1**	**0.8**	**0.9**	**1**
Circuit breaker type	C40S3TM320D											
Ir setting	224			224	256	288	288	320		320		
Im setting	1500											

UPS rating	**200 kW**	**250 kW**	**300 kW**	**350 kW**	**400 kW**	**450 kW**	**500 kW**
Power factor	**1**						
Circuit breaker type	C40S3TM320D						
Number of classic battery cabinets	2 x GVSCBC10-B2	2 x GVSCBC10-B2	3 x GVSCBC10-B2	3 x GVSCBC10-B2	4 x GVSCBC10-B2	4 x GVSCBC10-B2	4 x GVSCBC10-B2
Ir setting	288	320	288	320	288	320	320
Im setting	1500						

Recommended Cable Sizes

⚠⚠DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

All wiring must comply with all applicable national and/or electrical codes. The maximum allowable cable size is 95 mm^2.

Failure to follow these instructions will result in death or serious injury.

Cable sizes in this manual are based on table B.52.3 (52-C2) of IEC 60364-5-52 with the following assertions:

- 90 °C conductors
- An ambient temperature of 30 °C
- Use of copper conductors
- Installation method C

Protective Earth (PE) cables are sized in accordance with table 54.3 of IEC 60364-4-54, Article 543.

If the ambient temperature is greater than 30 °C, larger conductors are to be selected in accordance with the correction factors of the IEC.

GVSCBC7C

UPS rating	**20-60 kW**			**80 kW**			**100 kW**		
Power factor	**0.8**	**0.9**	**1**	**0.8**	**0.9**	**1**	**0.8**	**0.9**	**1**
DC+/DC- (mm^2)	50			70			70	NA	
DC PE (mm^2)	25			35			35		

GVSCBC7D

UPS rating	**20-30 kW**			**40-50 kW**			**60 kW**		
Power factor	**0.8**	**0.9**	**1**	**0.8**	**0.9**	**1**	**0.8**	**0.9**	**1**
DC+/DC- (mm^2)	16			35			35		
DC PE (mm^2)	10			16			16		

GVSCBC7E

UPS rating	**20-60 kW**			**80 kW**		
Power factor	**0.8**	**0.9**	**1**	**0.8**	**0.9**	**1**
DC+/DC- (mm^2)	35			50		
DC PE (mm^2)	16			25		

GVSCBC10A2

UPS rating	**20-80 kW**			**100-120 kW**			**150 kW**		
Power factor	**0.8**	**0.9**	**1**	**0.8**	**0.9**	**1**	**0.8**	**0.9**	**1**
DC+/DC- (mm^2)	50			70			70		NA
DC PE (mm^2)	25			35			35		

UPS rating	**200 kW**	**250 kW**	**300 kW**	**350 kW**	**400 kW**	**450 kW**	**500 kW**
Power factor	**1**						
Number of classic battery cabinets	2 x GVSCBC10-A2	2 x GVSCBC10-A2	3 x GVSCBC10-A2	3 x GVSCBC10-A2	4 x GVSCBC10-A2	4 x GVSCBC10-A2	4 x GVSCBC10-A2
DC+/DC- (mm^2)	70						
DC PE (mm^2)	35						

GVSCBC10B2

UPS rating	**20-60 kW**			**80-100 kW**			**120-150 kW**		
Power factor	**0.8**	**0.9**	**1**	**0.8**	**0.9**	**1**	**0.8**	**0.9**	**1**
DC+/DC- (mm^2)	50			70			95		
DC PE (mm^2)	25			35			50		

UPS rating	**200 kW**	**250 kW**	**300 kW**	**350 kW**	**400 kW**	**450 kW**	**500 kW**
Power factor	**1**						
Number of classic battery cabinets	2 x GVSCBC10-B2	2 x GVSCBC10-B2	3 x GVSCBC10-B2	3 x GVSCBC10-B2	4 x GVSCBC10-B2	4 x GVSCBC10-B2	4 x GVSCBC10-B2
DC+/DC- (mm^2)	70	95					
DC PE (mm^2)	35	50					

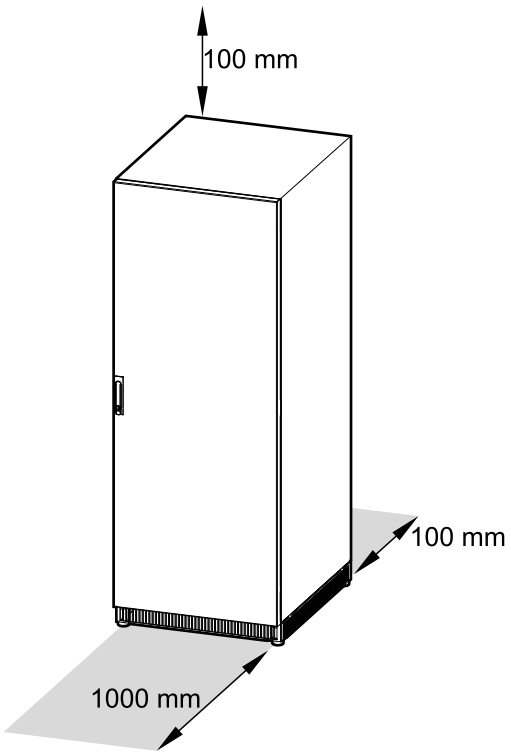
Torque Specifications

Bolt size	Torque
M4	1.7 Nm
M5	2.2 Nm
M6	5 Nm
M8	17.5 Nm
M10	30 Nm
M12	50 Nm

Clearance

NOTE: Clearance dimensions are published for airflow and service access only. Consult with the local safety codes and standards for additional requirements in your local area.

NOTE: The room should be ventilated to prevent the concentration of the dihydrogen generated by the battery cabinet. Recommended minimum airflow: 2.41 m^3/h.



Classic Battery Cabinet Shipping Weights and Dimensions

Commercial reference	Weight kg	Height mm	Width mm	Depth mm
GVSCBC7C	920	1980	815	970
GVSCBC7D	589	1980	815	970
GVSCBC7E	810	1980	815	970
GVSCBC10A2	1300	1980	1130	970
GVSCBC10B2	1532	1980	1130	970

Classic Battery Cabinet Weights and Dimensions

Commercial reference	Weight kg	Height mm	Width mm	Depth mm
GVSCBC7C	900	1900	710	845
GVSCBC7D	569	1900	710	845
GVSCBC7E	790	1900	710	845
GVSCBC10A2	1102	1900	1010	845
GVSCBC10B2	1368	1900	1010	845

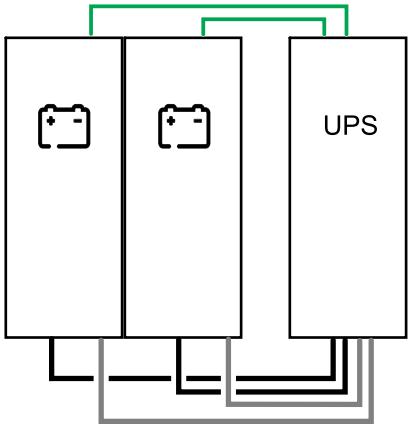
Environment

	Operating	Storage
Temperature	0 °C to 40 °C	-15 °C to 40 °C
Relative humidity	0-95% non-condensing	10-80% non-condensing
Elevation	0-1000 m	
Protection class	IP20	
Color	RAL 9003, gloss level 85%	

Compliance

Safety	IEC 62040-1:2017/AMD1:2021 – Uninterruptible Power Systems (UPS) – Part 1: Safety requirements IEC 60896-21:2004 Stationary lead-acid batteries –Part 21:Valve regulated types – Methods of test IEC 60896-22:2004 Stationary lead-acid batteries –Part 22:Valve regulated types – Requirements
Markings	CE
Earthing system	TN-C, TN-S, TT
Overvoltage category	OVCIII
Protective class	I
Pollution degree	2

Installation Procedure



NOTE: The distance between the battery bank and the UPS must not exceed 200 m. Contact Schneider Electric for installations with a longer distance.

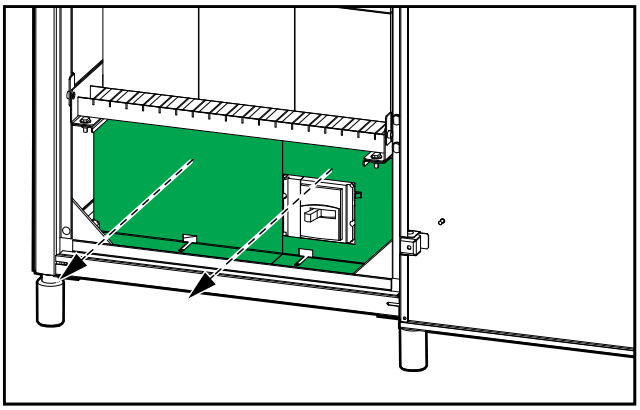
1. Prepare for Cables, page 19.
2. Perform one of the following:
   - Connect the Signal Cables to the Galaxy VS UPS, page 20, or
   - Connect the Signal Cables to the Galaxy VL UPS, page 23, or
   - Connect the Signal Cables to the Easy UPS 3-Phase Modular, page 30.
3. Connect the Power Cables, page 34.
4. Add Translated Safety Labels to Your Product, page 36.
5. Final Installation, page 37.

Post-requisite: For moving or decommissioning the classic battery cabinet after installation has been completed, please see Decommission or Move the Classic Battery Cabinet to a New Location, page 39.

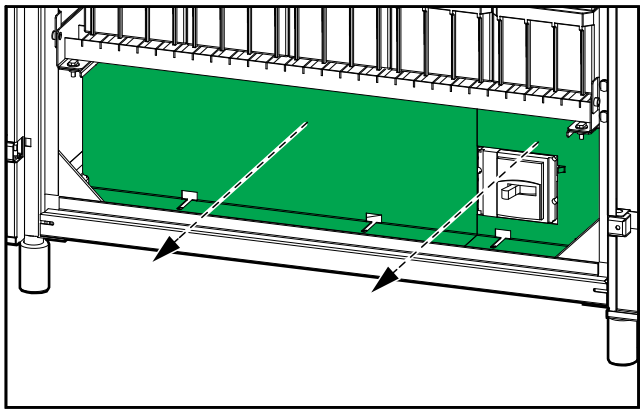
Prepare for Cables

1. Open the door(s). On GVSCBC10A2 and GVSCBC10B2, remove two screws to open the left door.
2. Lockout/Tagout the battery circuit breaker in the OFF (open) position.
3. Remove the battery circuit breaker protection plates.

GVSCBC7C, GVSCBC7D, GVSCBC7E



GVSCBC10A2, GVSCBC10B2



4. Remove the kit with copper bars/cables from the classic battery cabinet. Save for interconnection of the batteries – see Connect the Power Cables, page 34.

Connect the Signal Cables to the Galaxy VS UPS

NOTE: Route the signal cables separately from the power cables to ensure sufficient isolation.

NOTE: Use double isolated signal cables. The signal cables must have a minimum rating of 600 V.

1. Install the temperature sensor provided with the UPS in the top of the classic battery cabinet.

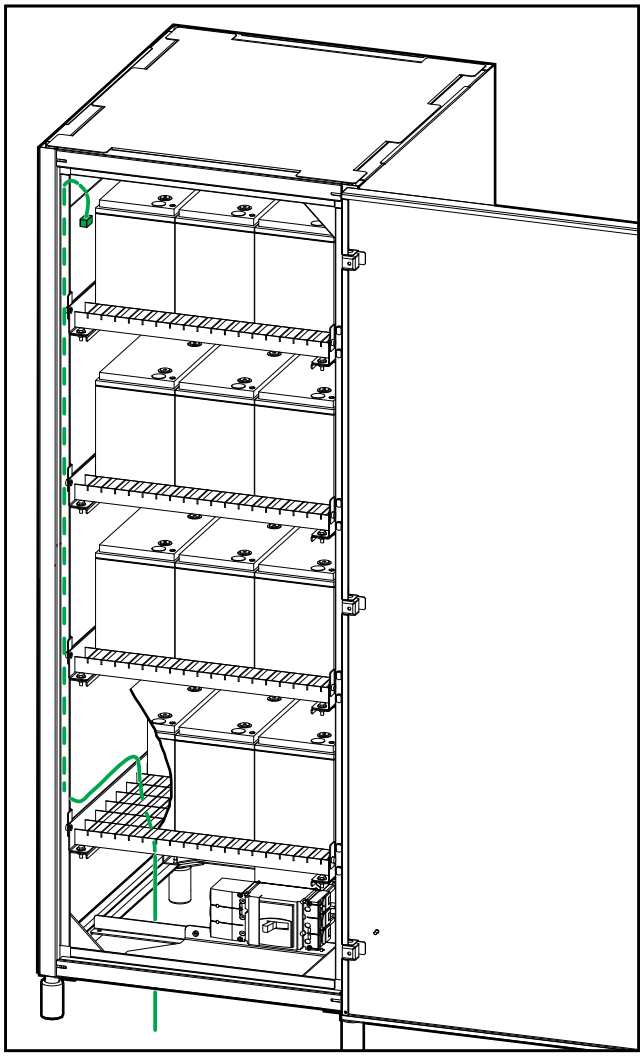
⚠⚠WARNING

HAZARD OF FIRE

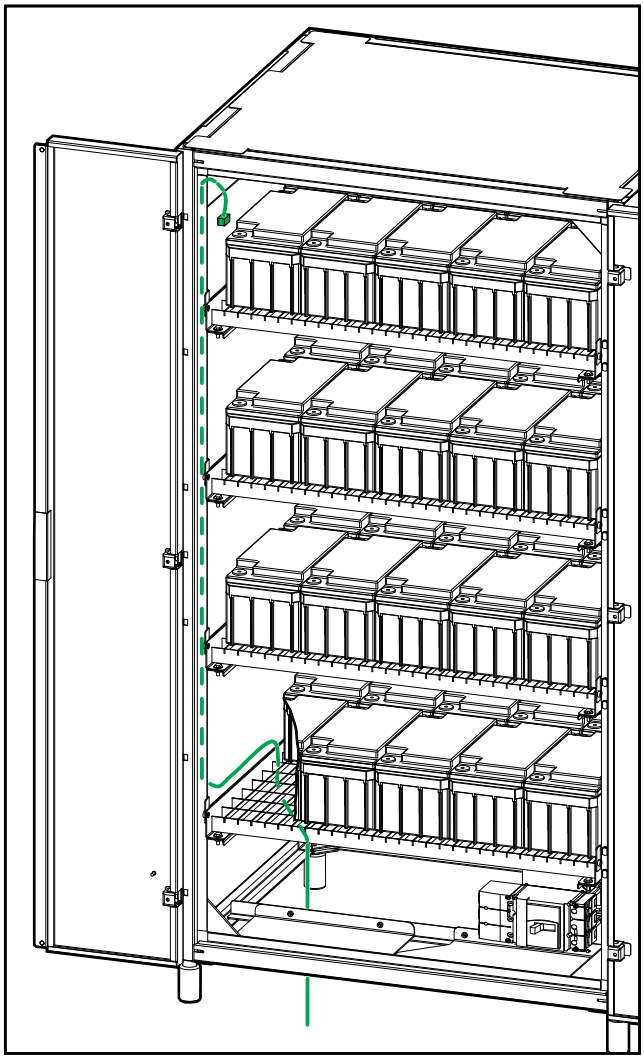
Position the temperature sensor as described to ensure correct temperature measurements.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

GVSCBC7C, GVSCBC7D, GVSCBC7E



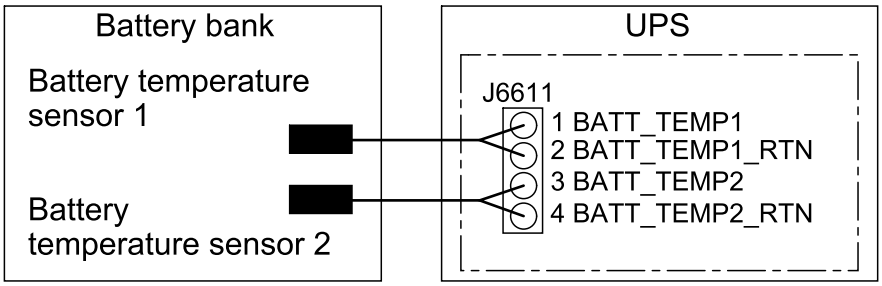
GVSCBC10A2, GVSCBC10B2



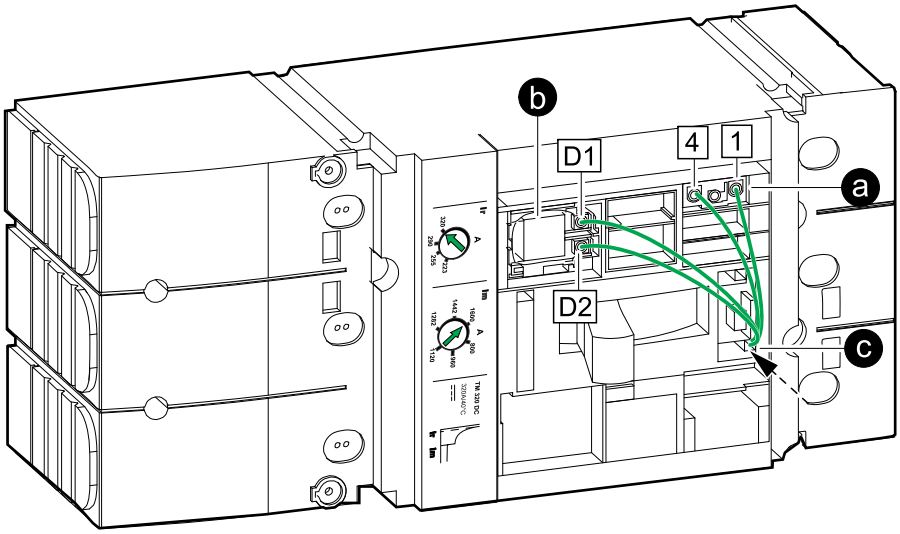
2. Route the battery temperature sensor cables through the bottom of the classic battery cabinet to the UPS and connect as shown.

   NOTE: One temperature sensor is provided with the UPS. Contact Schneider Electric if you want to buy an additional temperature sensor (0J-0M-1160).

   NOTE: The battery temperature sensor cables are considered Class 2 and SELV. Class 2 and SELV circuits must be double isolated from the primary circuitry.

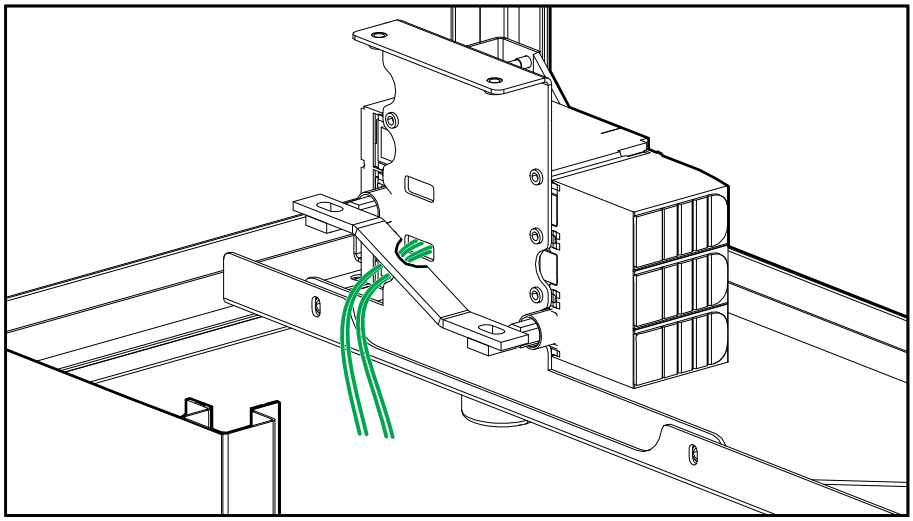


3. Remove the cover on the battery circuit breaker.
4. Connect the signal cables to the battery circuit breaker:
   a. Connect the signal cables to the AUX switch.
   b. Connect the signal cables to the undervoltage trip coil.
   c. Route the signal cables out through the lower opening of the battery circuit breaker.

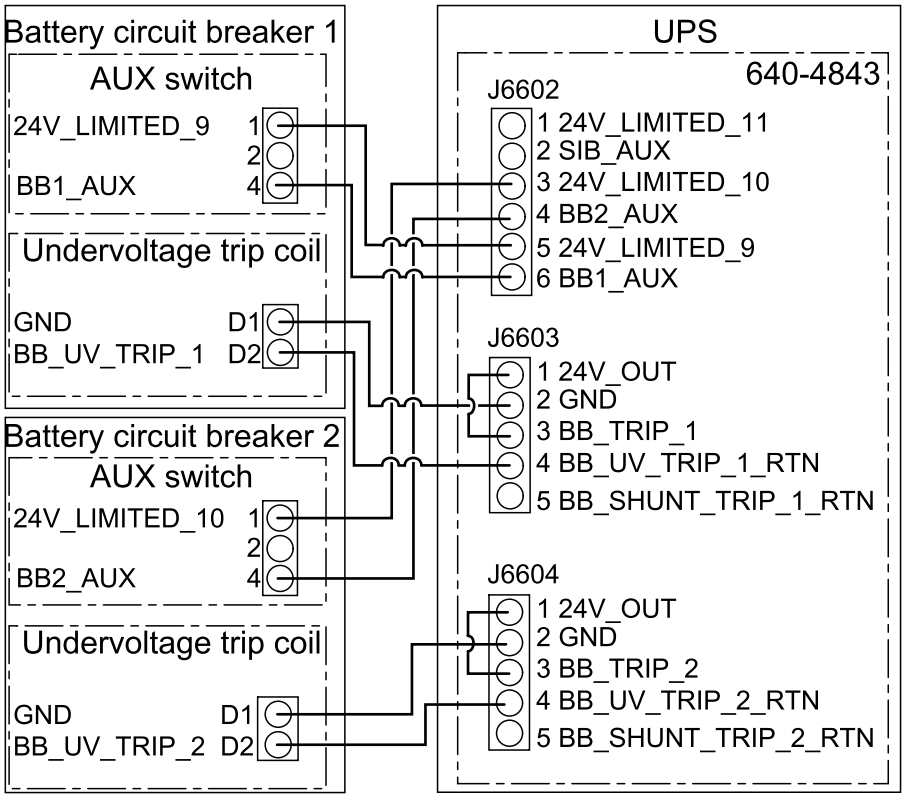


5. Route the signal cables from behind the battery circuit breaker and out through the bottom of the classic battery cabinet.

Rear View of the Battery Circuit Breaker



6. Reinstall the cover on the battery circuit breaker.
7. Connect the signal cables in the UPS as shown.



Connect the Signal Cables to the Galaxy VL UPS

NOTE: Route the signal cables separately from the power cables to ensure sufficient isolation.

NOTE: Use double isolated signal cables. The signal cables must have a minimum rating of 600 V.

1. Install the temperature sensor(s) 0M-1160 provided with the UPS in the top of the classic battery cabinet(s).

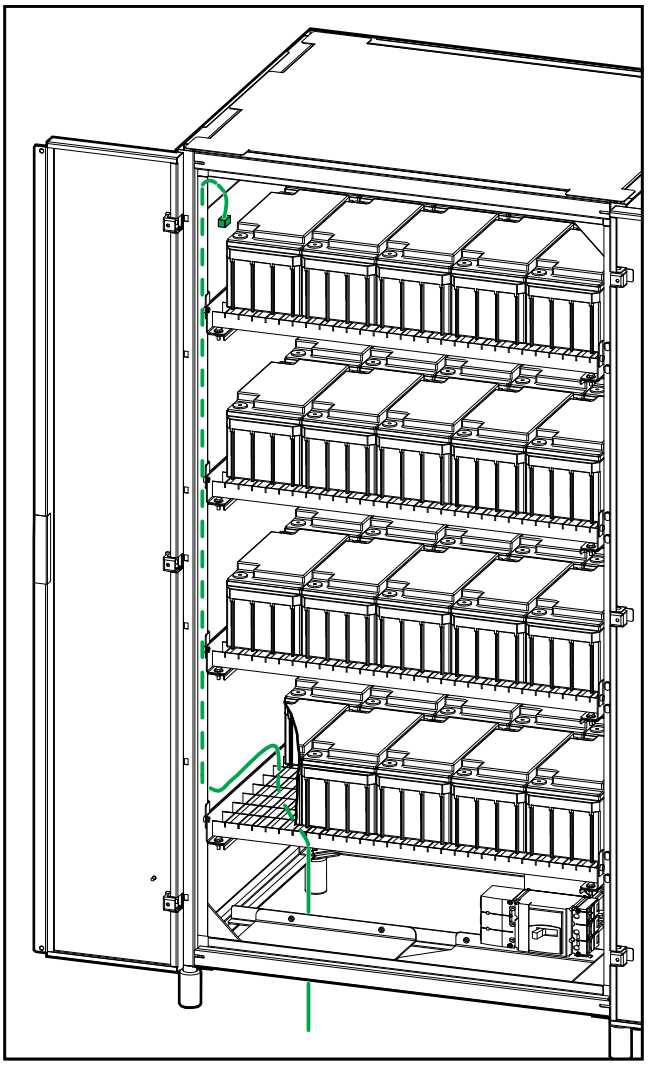
⚠⚠WARNING

HAZARD OF FIRE

Position the temperature sensor as described to ensure correct temperature measurements.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

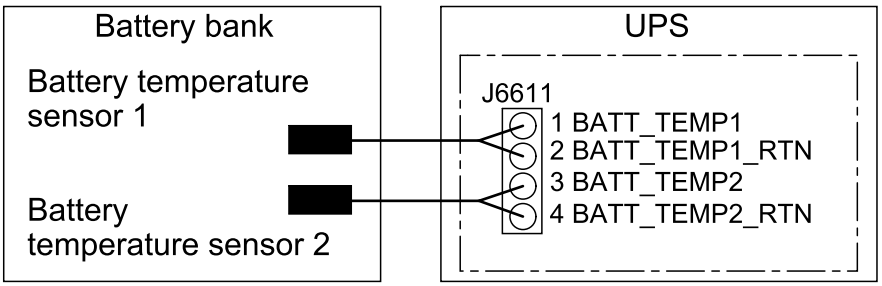
GVSCBC10A2, GVSCBC10B2



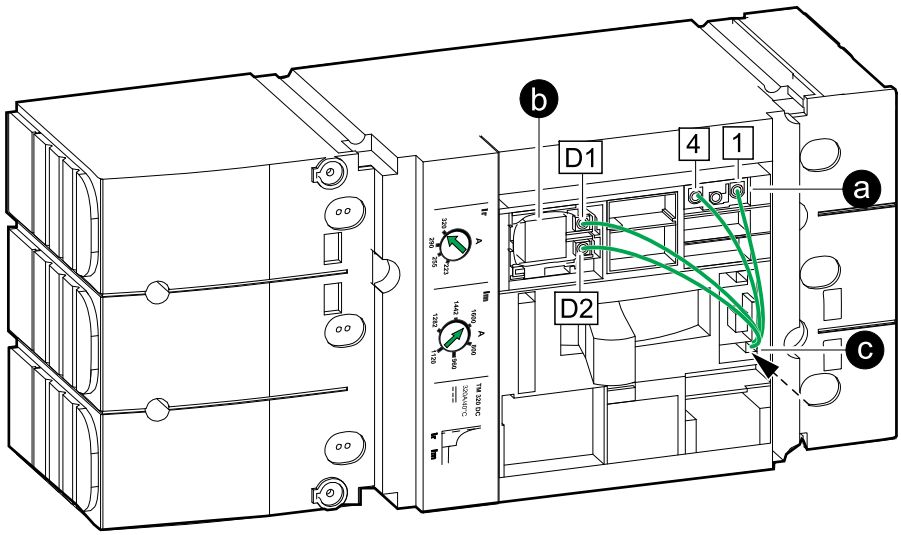
2. Route the battery temperature sensor cables through the bottom of the classic battery cabinet to the UPS and connect as shown.

   NOTE: Two temperature sensors are provided with the UPS.

   NOTE: The battery temperature sensor cables are considered Class 2 and SELV. Class 2 and SELV circuits must be double isolated from the primary circuitry.

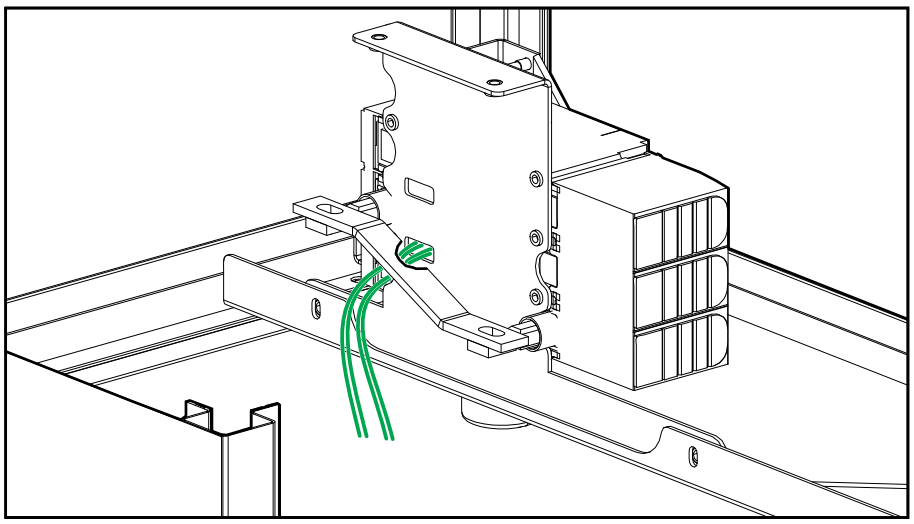


3. Remove the cover on the battery circuit breaker.
4. Connect the signal cables to the battery circuit breaker:
   a. Connect the signal cables to the AUX switch.
   b. Connect the signal cables to the undervoltage trip coil.
   c. Route the signal cables out through the lower opening of the battery circuit breaker.

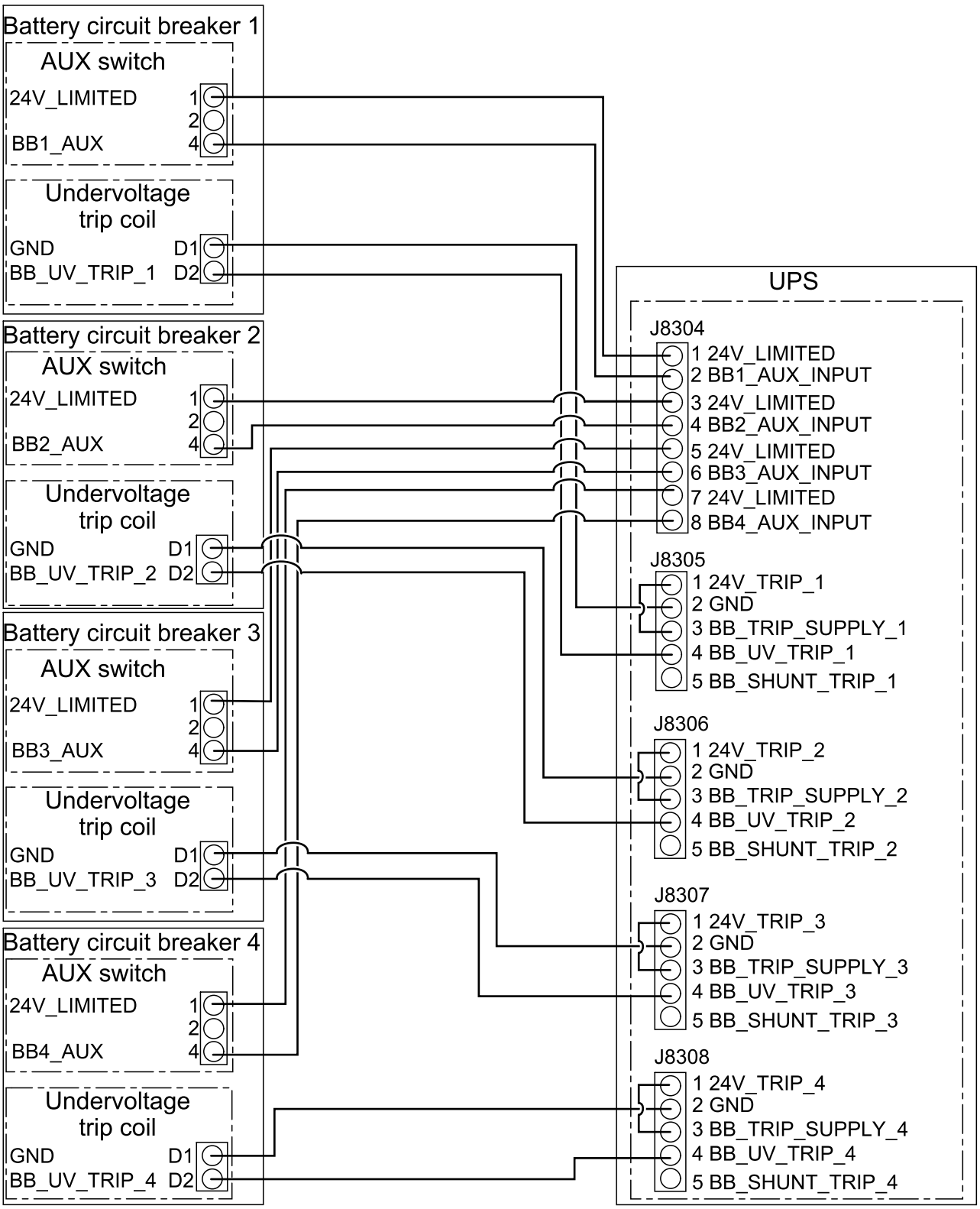


5. Route the signal cables from behind the battery circuit breaker and out through the bottom of the classic battery cabinet.

Rear View of the Battery Circuit Breaker



6. Reinstall the cover on the battery circuit breaker.
7. Connect the signal cables in the UPS as shown.



Connect the Signal Cables to the Galaxy PX 300-600 kW

NOTE: Route the signal cables separately from the power cables to ensure sufficient isolation.

NOTE: Use double isolated signal cables. The signal cables must have a minimum rating of 600 V.

1. Install the battery temperature sensor(s) (not provided).

   NOTE: Temperature sensors (SP3OPT006) are available as an optional kit.

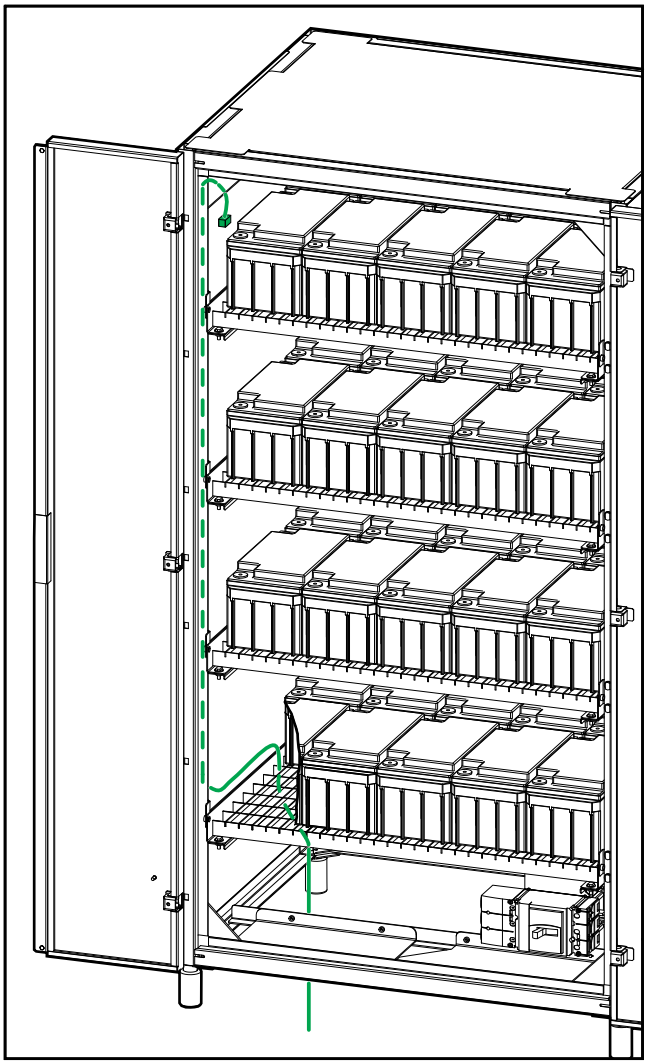
⚠⚠WARNING

HAZARD OF FIRE

Position the temperature sensor as described to ensure correct temperature measurements.

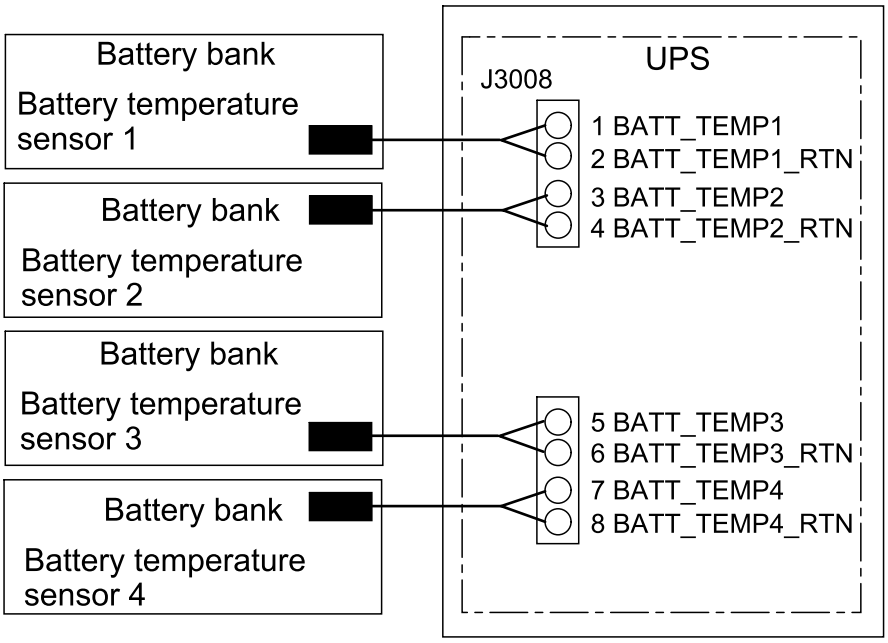
Failure to follow these instructions can result in death, serious injury, or equipment damage.

GVSCBC10A2, GVSCBC10B2

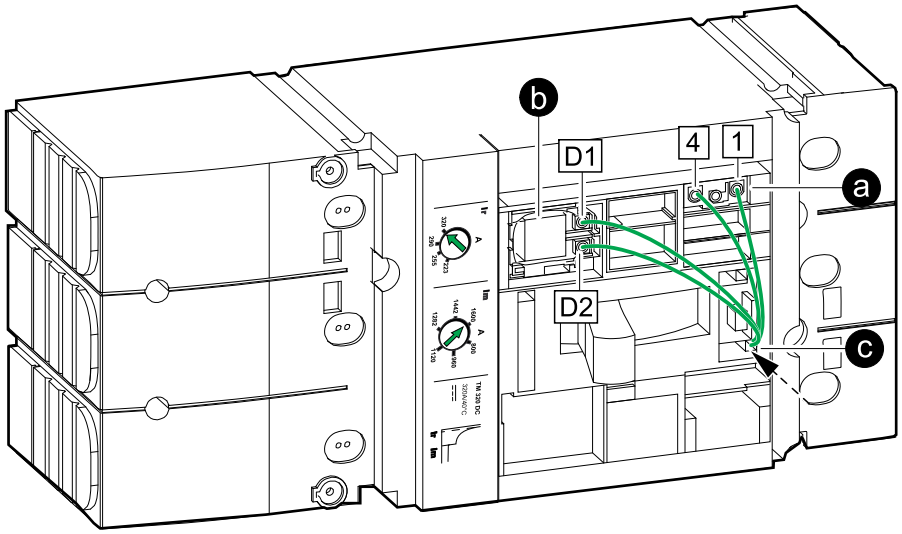


2. Route the battery temperature sensor cables through the bottom of the classic battery cabinet to the UPS and connect as shown.

   NOTE: The battery temperature sensor cables are considered Class 2 and SELV. Class 2 and SELV circuits must be double isolated from the primary circuitry.

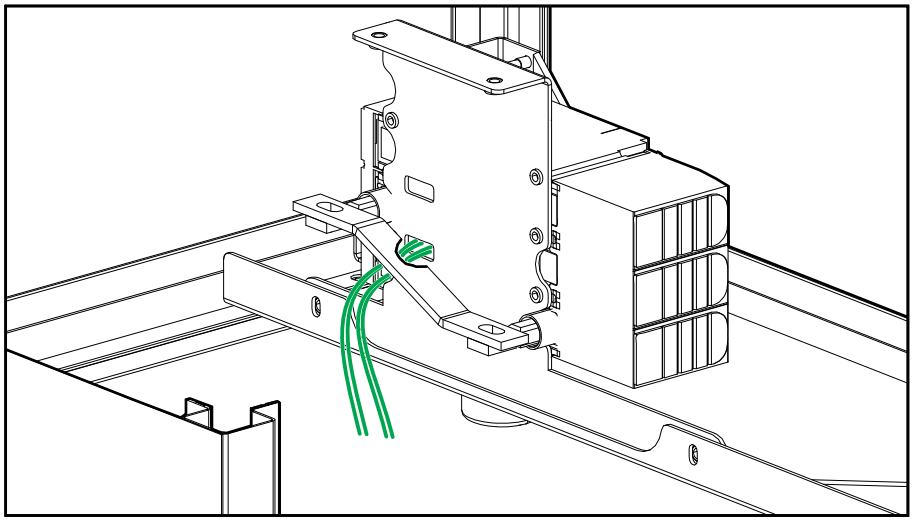


3. Remove the cover on the battery circuit breaker.
4. Connect the signal cables to the battery circuit breaker:
   a. Connect the signal cables to the AUX switch.
   b. Connect the signal cables to the undervoltage trip coil.
   c. Route the signal cables out through the lower opening of the battery circuit breaker.



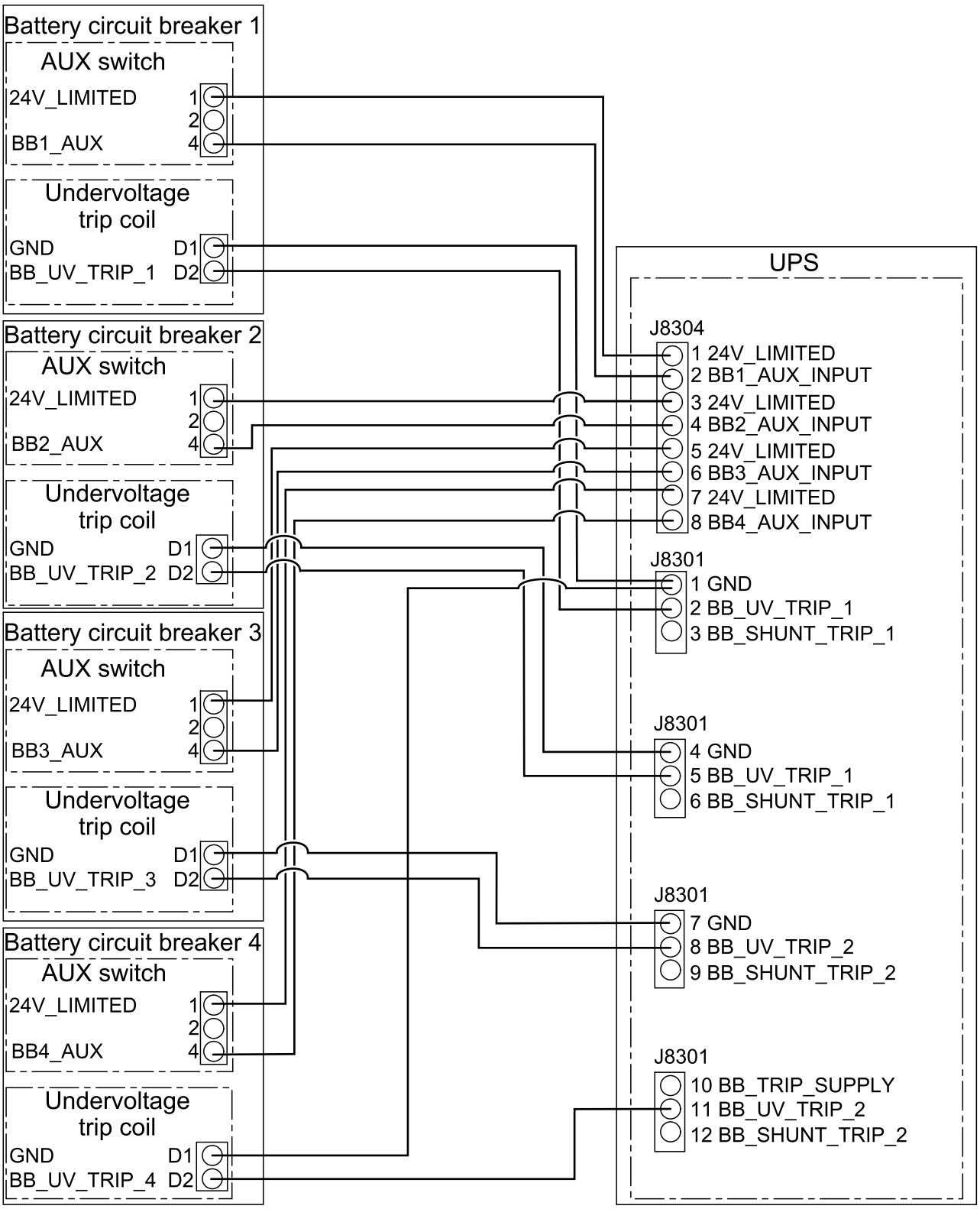
5. Route the signal cables from behind the battery circuit breaker and out through the bottom of the classic battery cabinet.

Rear View of the Battery Circuit Breaker



6. Reinstall the cover on the battery circuit breaker.

7. Connect the signal cables in the UPS as shown.



Connect the Signal Cables to the Easy UPS 3-Phase Modular

NOTE: Route the signal cables separately from the power cables to ensure sufficient isolation.

NOTE: Use double isolated signal cables. The signal cables must have a minimum rating of 600 V.

1. Install the battery temperature sensor(s) (not provided).

   NOTE: Temperature sensors (SP3OPT006) are available as an optional kit.

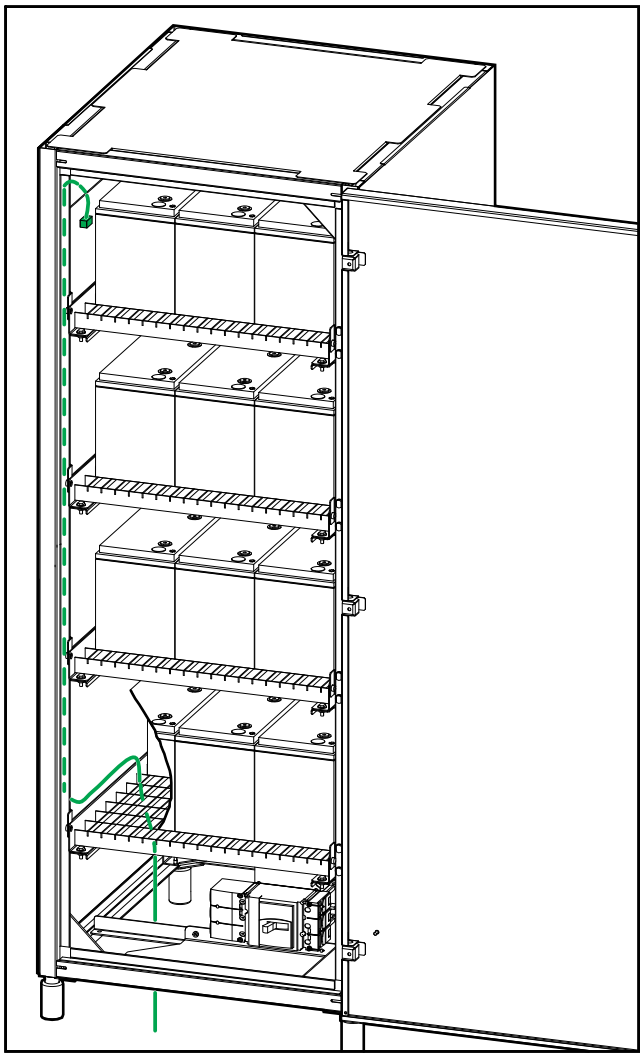
⚠⚠WARNING

HAZARD OF FIRE

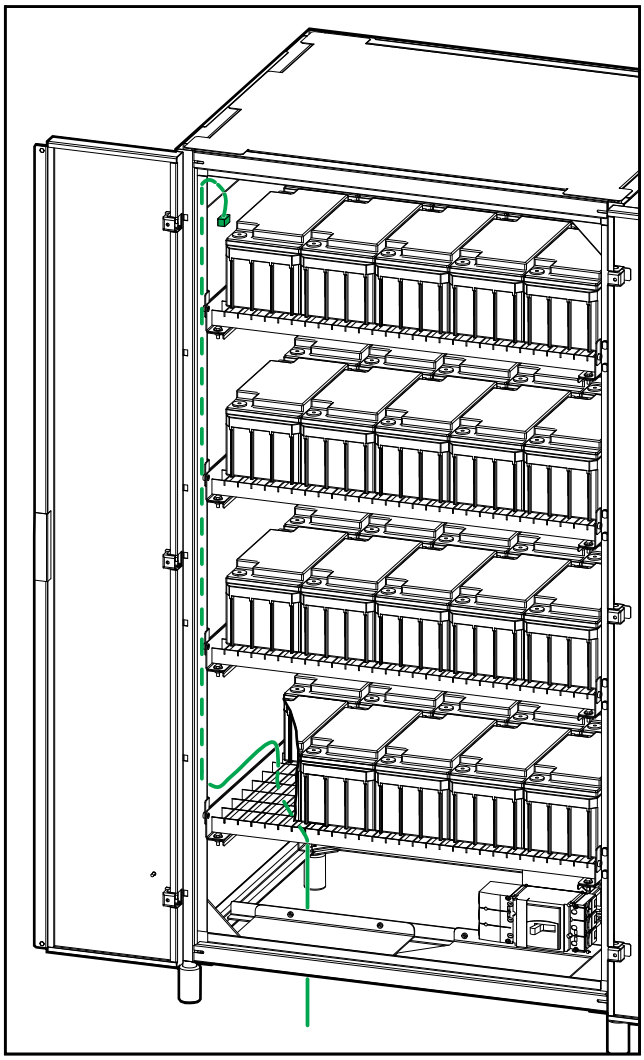
Position the temperature sensor as described to ensure correct temperature measurements.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

GVSCBC7C, GVSCBC7D, GVSCBC7E

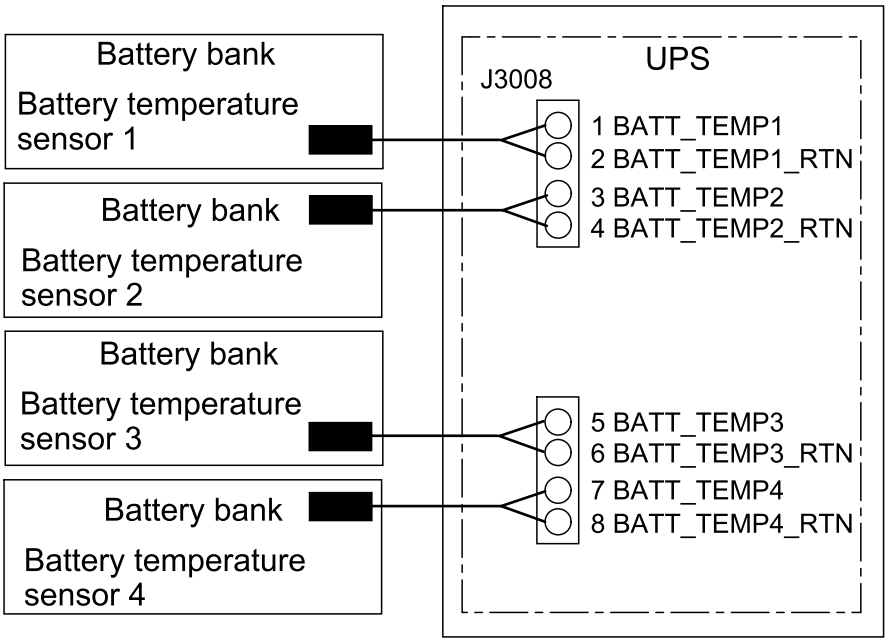


GVSCBC10A2, GVSCBC10B2

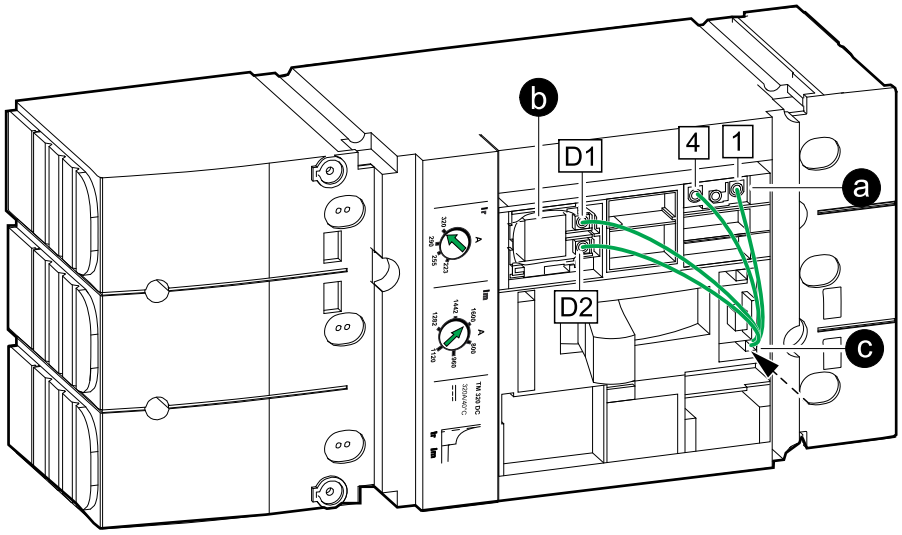


2. Route the battery temperature sensor cables through the bottom of the classic battery cabinet to the UPS and connect as shown.

   NOTE: The battery temperature sensor cables are considered Class 2 and SELV. Class 2 and SELV circuits must be double isolated from the primary circuitry.

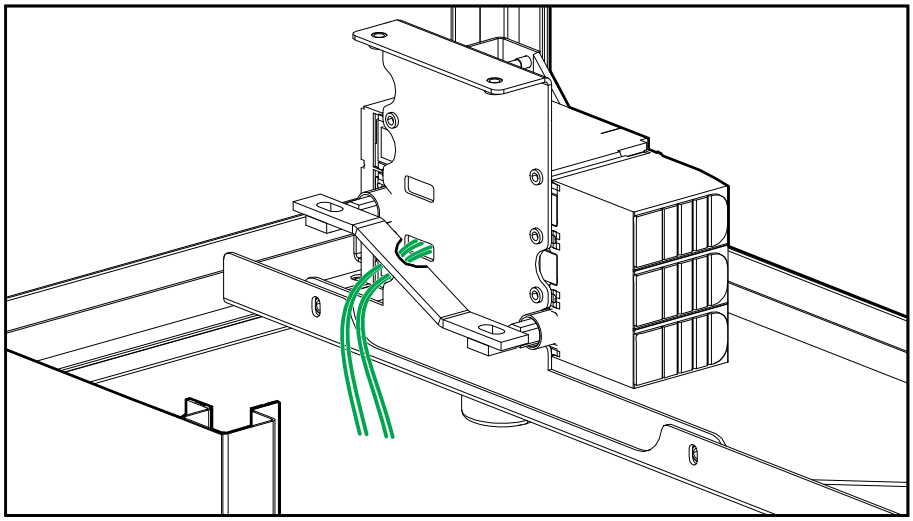


3. Remove the cover on the battery circuit breaker.
4. Connect the signal cables to the battery circuit breaker:
   a. Connect the signal cables to the AUX switch.
   b. Connect the signal cables to the undervoltage trip coil.
   c. Route the signal cables out through the lower opening of the battery circuit breaker.



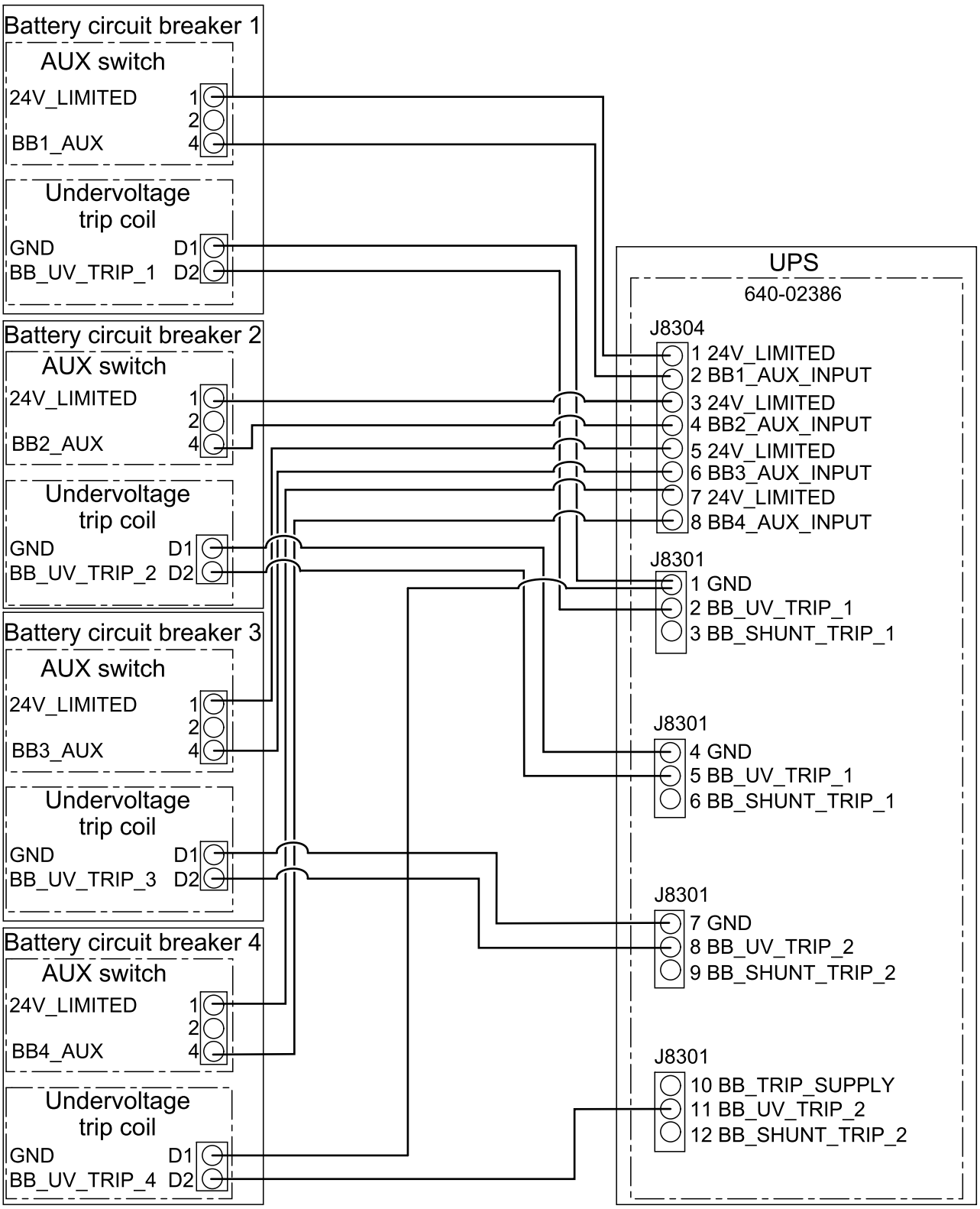
5. Route the signal cables from behind the battery circuit breaker and out through the bottom of the classic battery cabinet.

Rear View of the Battery Circuit Breaker



6. Reinstall the cover on the battery circuit breaker.

7. Connect the signal cables in the UPS as shown.



Connect the Power Cables

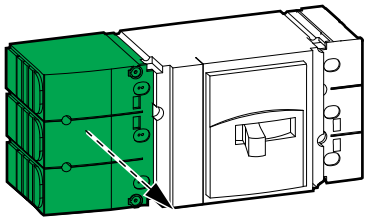
⚠⚠DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

Perform a total power off of the UPS before connecting the DC cables and battery cables to the classic battery cabinet.

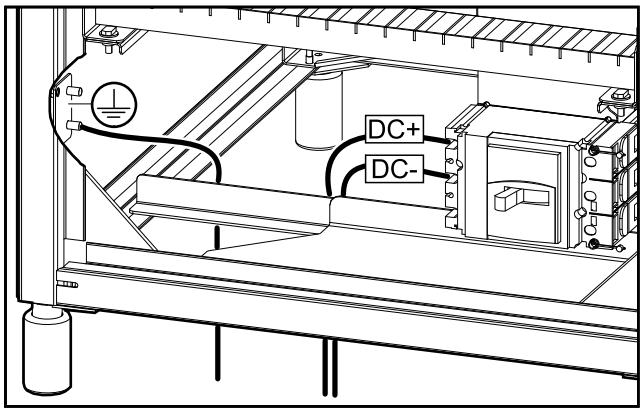
Failure to follow these instructions will result in death or serious injury.

1. Remove the terminal cover from the left side of the battery circuit breaker.

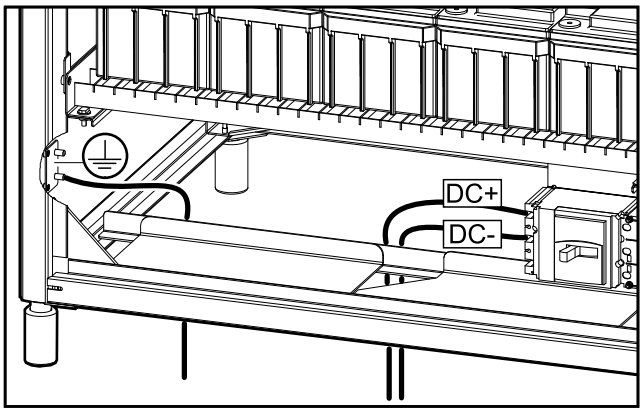


2. Route the PE cable through the bottom of the classic battery cabinet and connect the PE cable.

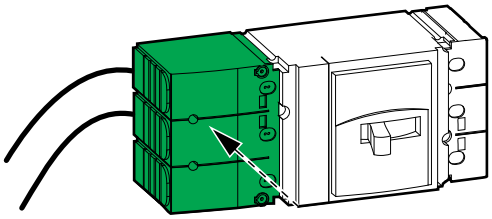
GVSCBC7C, GVSCBC7D, GVSCBC7E



GVSCBC10A2, GVSCBC10B2



3. Route the DC cables through the bottom of the classic battery cabinet and connect the DC cables (DC+, DC-). Use lock washers (not provided) when connecting the DC cables.
4. Reinstall the terminal cover on the left side of the battery circuit breaker.



5. Reinstall the battery circuit breaker protection plates.

6. Interconnect the batteries on each shelf in the classic battery cabinet(s) with the provided copper bars or cables and connect to the right side of the battery circuit breaker. Refer to the connection diagram on the inside of the front door of the classic battery cabinet.

⚠⚠DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

Batteries can present a risk of electric shock and high short-circuit current. The following precautions must be observed when working on batteries:

- Remove watches, rings, or other metal objects.
- Use tools with insulated handles.
- Wear protective glasses, gloves, and boots.
- Do not lay tools or metal parts on top of batteries.
- Disconnect the charging source prior to connecting or disconnecting battery terminals.
- Determine if the battery is inadvertently grounded. If inadvertently grounded, remove source from ground. Contact with any part of a grounded battery can result in electric shock and burns by high short-circuit current. The likelihood of such shock can be reduced if such grounds are removed during installation and maintenance by a skilled person (applicable to equipment and remote battery supplies not having a grounded supply circuit).

Failure to follow these instructions will result in death or serious injury.

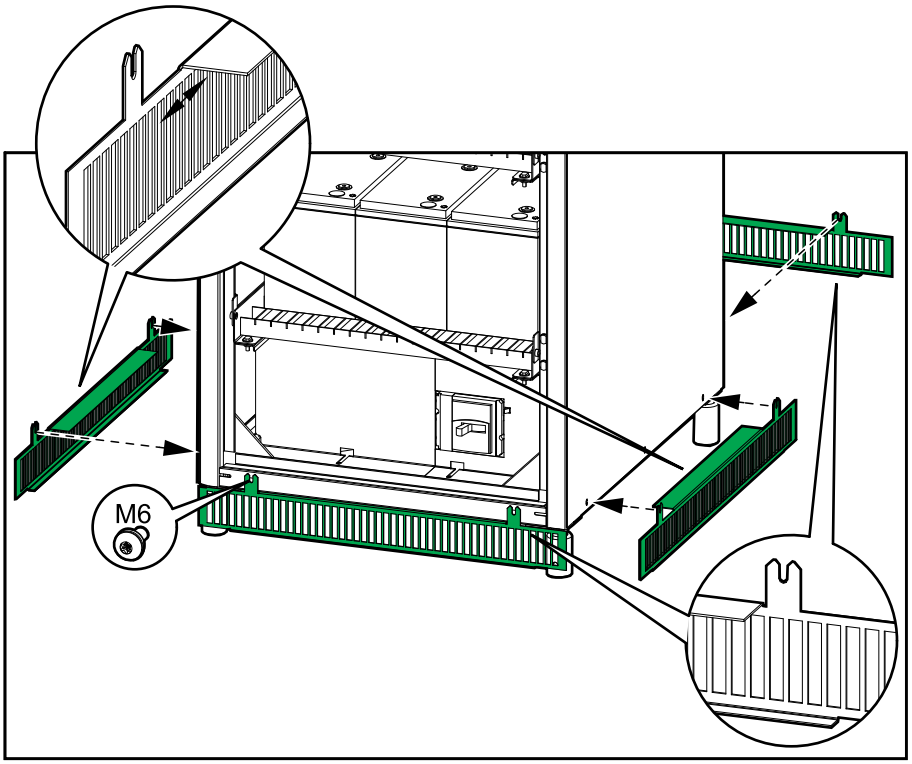
Add Translated Safety Labels to Your Product

The safety labels on your product are in English and French. Sheets with translated safety labels are provided with your product.

1. Find the sheets with translated safety labels provided with your product.
2. Check which identification numbers are on the sheet with translated safety labels.
3. Locate the safety labels on your product that match the translated safety labels on the sheet – look for the identification numbers.
4. Add the replacement safety label in your preferred language to your product on top of the existing French safety label.

Final Installation

1. Install the provided kick plates on the front, rear, and sides of the classic battery cabinet.



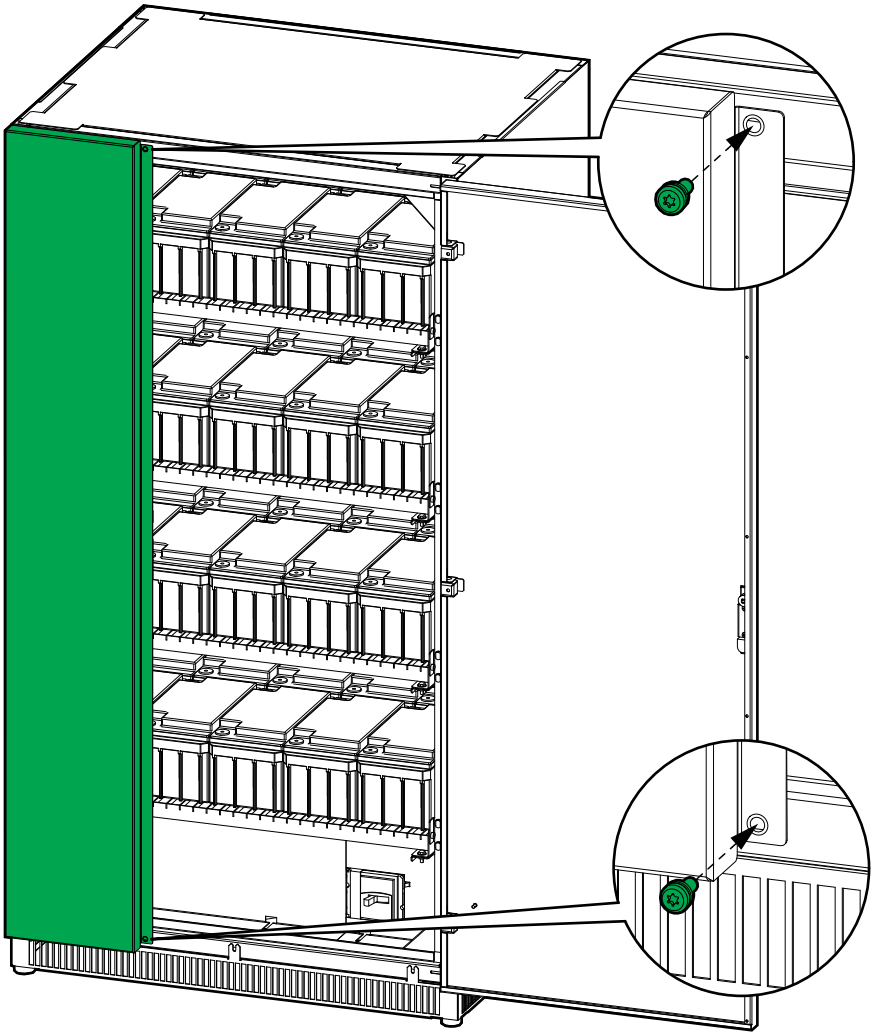
NOTE: Only remove the kick plates when following the procedure for decommissioning or moving the classic battery cabinet. See Decommission or Move the Classic Battery Cabinet to a New Location, page 39 for details.

2. Remove all nylon straps that fasten the batteries to the shelves.

NOTICE
RISK OF EQUIPMENT DAMAGE Remove the nylon straps from the batteries. The nylon straps may deform and damage the batteries over time, if not removed. **Failure to follow these instructions can result in equipment damage.**

3. Close the door(s). On GVSCBC10A2 and GVSCBC10B2, install two screws to close the left door.

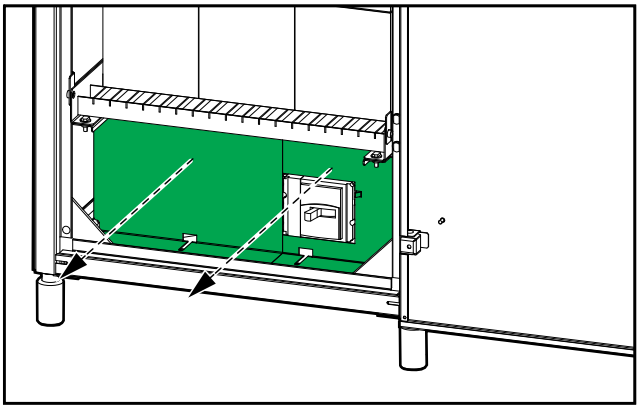
GVSCBC10A2, GVSCBC10B2



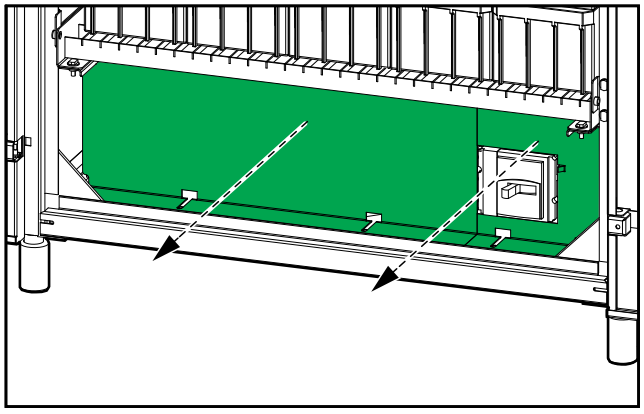
Decommission or Move the Classic Battery Cabinet to a New Location

1. Open the door(s). On GVSCBC10A2 and GVSCBC10B2, remove two screws to open the left door.
2. Lockout/Tagout the battery circuit breaker in the OFF (open) position.
3. Remove the battery circuit breaker protection plates.

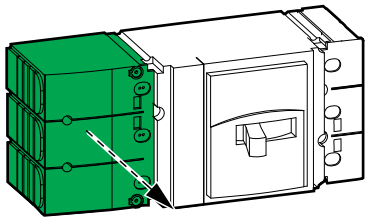
GVSCBC7C, GVSCBC7D, GVSCBC7E



GVSCBC10A2, GVSCBC10B2

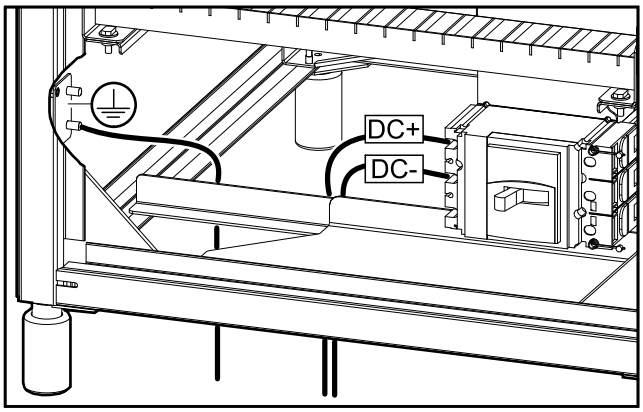


4. Remove the terminal cover from the left side of the battery circuit breaker.

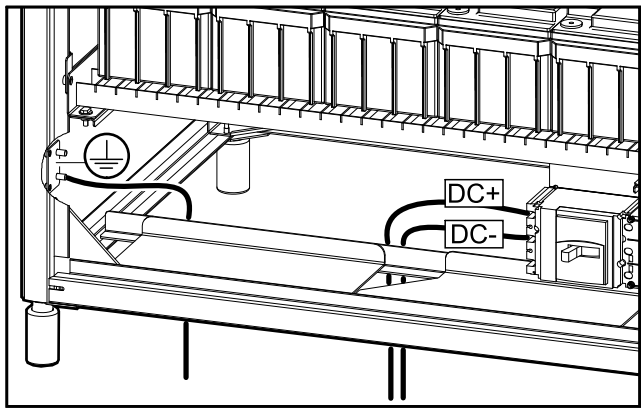


5. Disconnect and remove the DC cables and PE cable from the battery circuit breaker.

GVSCBC7C, GVSCBC7D, GVSCBC7E



GVSCBC10A2, GVSCBC10B2



6. Disconnect and remove the interconnection copper bars or interconnection cables between the batteries on each shelf. Disconnect and remove the battery cables from the right side of the battery circuit breaker. Refer to the connection diagram on the inside of the front door of the classic battery cabinet.

⚠⚠DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

Batteries can present a risk of electric shock and high short-circuit current. The following precautions must be observed when working on batteries:

- Remove watches, rings, or other metal objects.
- Use tools with insulated handles.
- Wear protective glasses, gloves, and boots.
- Do not lay tools or metal parts on top of batteries.
- Disconnect the charging source prior to connecting or disconnecting battery terminals.
- Determine if the battery is inadvertently grounded. If inadvertently grounded, remove source from ground. Contact with any part of a grounded battery can result in electric shock and burns by high short-circuit current. The likelihood of such shock can be reduced if such grounds are removed during installation and maintenance by a skilled person (applicable to equipment and remote battery supplies not having a grounded supply circuit).

Failure to follow these instructions will result in death or serious injury.

7. Remove the batteries from the shelves. Recycle or reuse the batteries as appropriate.

⚠⚠DANGER

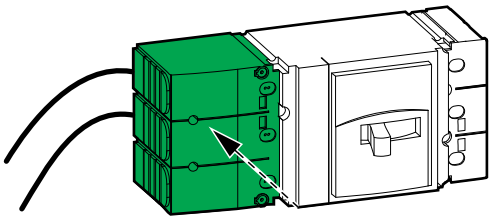
HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

Servicing of batteries must only be performed or supervised by qualified personnel knowledgeable of batteries and the required precautions. Keep unqualified personnel away from batteries.

- Recycle lead-acid batteries correctly. Batteries contain lead and dilute sulfuric acid.
- Dispose of the batteries in accordance with country and local regulations.

Failure to follow these instructions will result in death or serious injury.

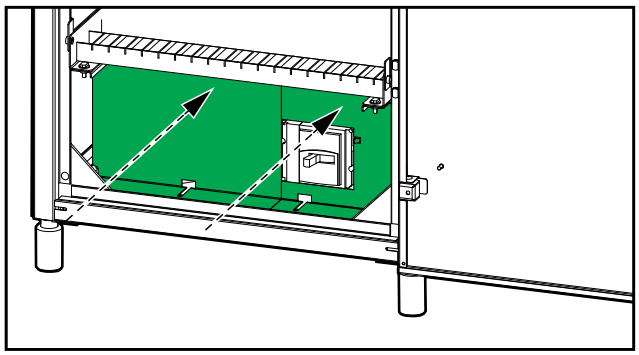
8. Reinstall the terminal cover on the left side of the battery circuit breaker.



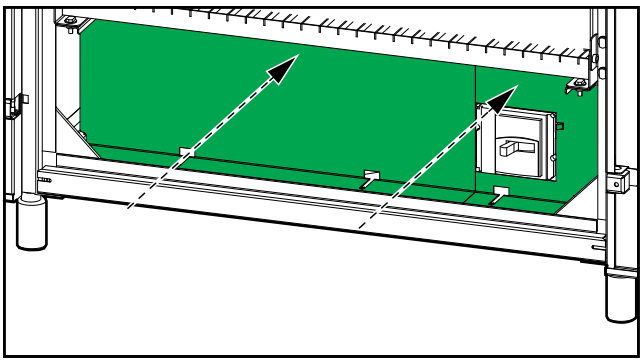
9. Disconnect and remove any signal cables from the classic battery cabinet.

10. Reinstall the battery circuit breaker protection plates.

GVSCBC7C, GVSCBC7D, GVSCBC7E

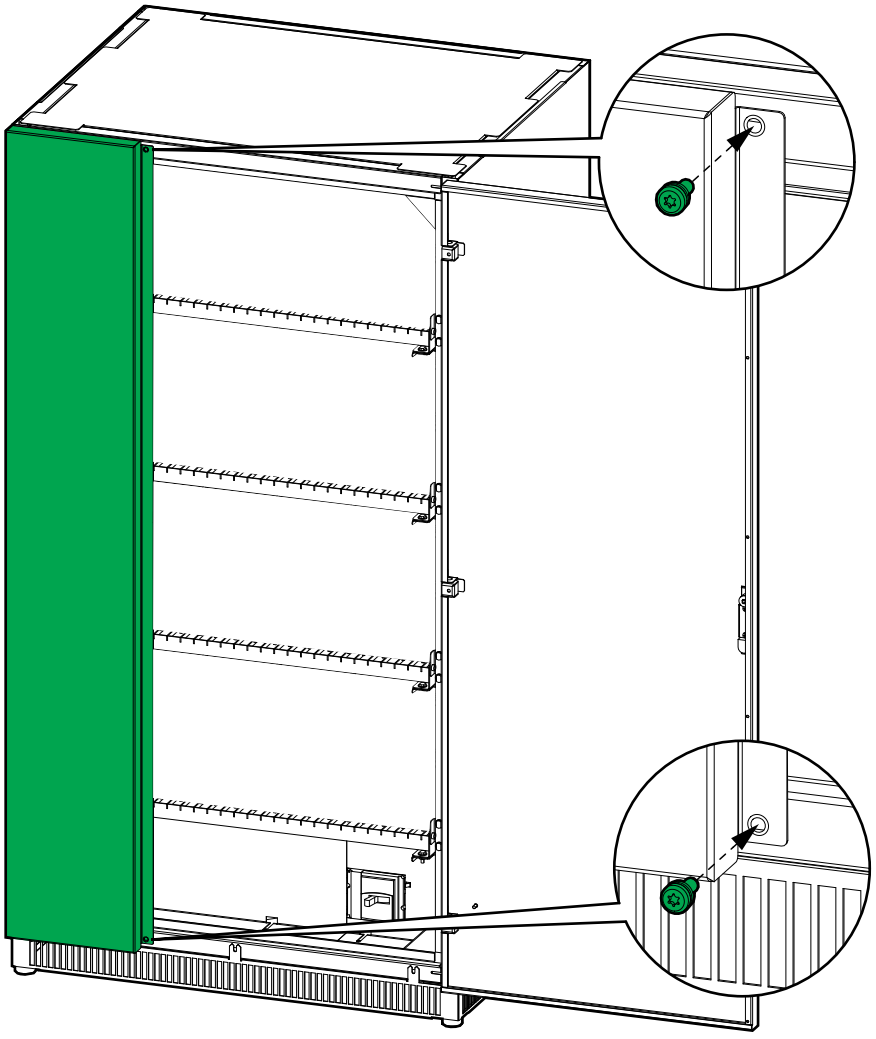


GVSCBC10A2, GVSCBC10B2



11. Close the door(s). On GVSCBC10A2 and GVSCBC10B2, install two screws to close the left door.

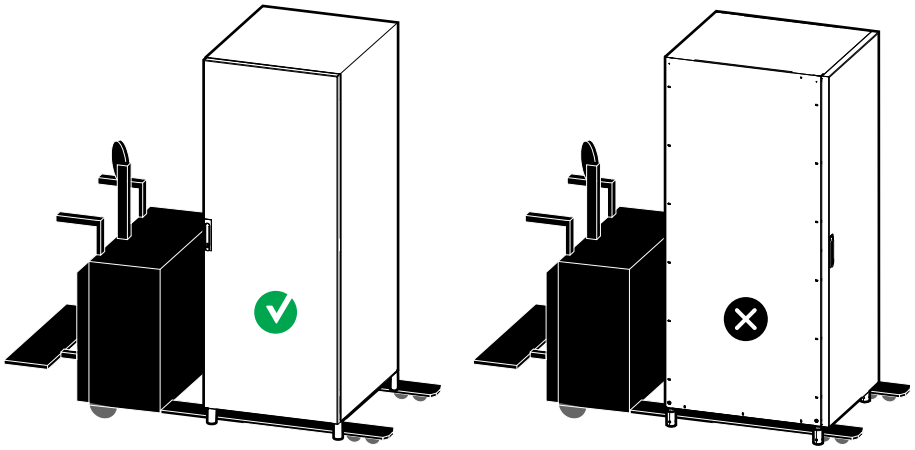
GVSCBC10A2, GVSCBC10B2



12. Remove the kick plates from the front, rear, and sides of the classic battery cabinet.

13. Lift the classic battery cabinet from the left or right side with a pallet truck.

> **⚠ WARNING**
>
> **TIPPING HAZARD**
>
> - Do not lift the cabinet with a forklift. Use a pallet truck
> - Do not lift the cabinet from the front or from the rear. Lift from the left or right side.
>
> **Failure to follow these instructions can result in death, serious injury, or equipment damage.**



14. Perform one of the following:
    - Decommission the classic battery cabinet, OR
    - Move the classic battery cabinet to a new location to install it.
15. **Only for installing the classic battery cabinet in new a location**: Reinstall the batteries in the classic battery cabinet after moving it to the new location. Follow the installation manual to install battery interconnections, signal cables, power cables, etc. See Installation Procedure, page 18 for installation overview.

Maintenance Requirements for the VRLA Batteries in the Classic Battery Cabinet

All battery systems, including VRLA (Valve-Regulated Lead-Acid) types, require routine maintenance to ensure they operate safely, reliably, and efficiently over their intended lifespan. While VRLA batteries are designed to be low-maintenance, VRLA batteries are not maintenance-free.

NOTE: Failure to perform maintenance as outlined in this manual may result in compromised battery performance.

Neglecting regular checks and upkeep can lead to:

- Unexpected system failures or downtime
- Reduced energy storage capacity
- Shortened battery life
- Safety risks due to overheating, gas buildup, or terminal corrosion
- Higher operational costs due to premature replacements

Implementing a consistent maintenance routine helps detect early signs of wear, ensures compliance with safety standards, and supports optimal performance across various applications.

⚠CAUTION

HAZARD OF PERSONAL INJURY

- Please read all safety precautions outlined before proceeding with any maintenance activity.
- Maintenance tasks such as fuse replacement, battery replacement, or electrical testing should only be performed by qualified and trained personnel. Improper handling may result in equipment damage, personal injury, or safety hazards.
- Before beginning any procedure, carefully review the instructions in their entirety to ensure proper understanding and safe execution.

Failure to follow these instructions can result in injury or equipment damage.

Required Preventative Maintenance

VRLA batteries require preventative maintenance at scheduled intervals to ensure long-term reliability and to minimize the risk of unexpected failures. Preventive maintenance includes more detailed inspections and testing, typically performed annually, depending on the system's criticality and operating environment.

IMPORTANT: During preventive maintenance, the battery system must be completely disconnected from the UPS and all connected loads to avoid electrical hazards and ensure accurate testing.

Preventative maintenance checklist:

- Perform a detailed visual inspection of all battery blocks and connections.
- Check for any leakage, deformations, burnt sign, air crack.
- Measure and record the voltage of each individual battery block or their internal impedances, and compare the results with the battery manufacturer’s technical specifications.
- Verify charger settings and confirm float and boost voltages are within specification.
- Inspect torque and cleanliness of terminal connections, re-torque if necessary.
- Check for signs of thermal stress or uneven heating across battery blocks.

- Use a nylon scrubbing pad to clean the terminals if required.
- Apply No-ox grease or petroleum jelly to terminals to avoid corrosion.
- Perform battery ground fault check to detect any unintentional connection between battery terminals and ground.
- Conduct a thorough visual inspection of the battery inter-connecting cable connectors:
  - Check for corrosion: Look for white or greenish deposits around terminals.
  - Inspect insulation: Ensure cables are not cracked, frayed, or melted.
  - Verify tightness: Loose connections can lead to overheating and voltage drops.
  - Look for discoloration: Signs of overheating or arcing.
- Ensure while connecting there is no sharp bend on the bale connectors. It may:
  - Crack the insulation
  - Exert undue force on the battery terminals
- Conduct dielectric strength test to verify insulation integrity and ensure safe operating conditions.
- If you find any abnormalities like voltage out of specified range or impedance out of specified range, contact your supervisor for next level of activities.
- Update the maintenance records and schedule follow-up actions, if needed. Store the maintenance record for future reference.

Recommended Routine Maintenance

Routine maintenance is typically non-intrusive and can be performed without disconnecting the battery from the system. It is recommended to carry out these checks regularly (e.g. every three months), depending on the application, environment and guidelines from the battery manufacturer.

Routine maintenance checklist:

- Check for any visible damage, cracks, or deformation of the battery casing.
- Ensure that the battery terminals are clean, and free from corrosion.
- Ensure that correct air circulation and temperature is maintained as defined by the battery manufacturer recommendations.
- Record the battery string voltage shown on the UPS display.
- Observe and record the ambient battery cabinet temperature.
- Ensure that the classic battery cabinet installation area is clean, dry, and free from obstructions.
- Log all observations and measurements in a maintenance record. Store the maintenance record for future reference.

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