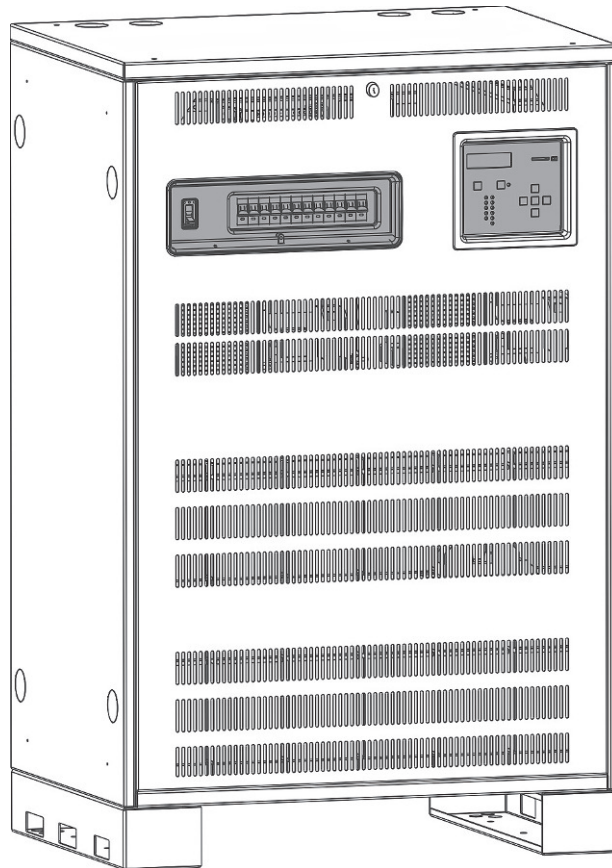


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CONTRACTOR'S GUIDE

EMERGENCY LIGHTING CENTRAL INVERTER STEP BY STEP PROCEDURES 4,200 THRU 6,250 WATTS/VA (SINGLE PHASE) 5 Step Installation Guidelines



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Contents of Shipment

Cabinet - Model dependent 4.2KW-6.25KW(Outline on page 6)

Batteries - 8 pcs. for 4.2KW, 10 pcs. for 5.2KW, 12 pcs. for 6.25KW,

Battery Cable Kit - All Models

Installation/Operation Manual - All Models

Contractors Guide – All Models

System Weights With Batteries

4200W	1,059 lbs.
5200W	1,215 lbs.
6250W	1,371 lbs.

Battery Weight - 78 lbs. ea.

Tools Required for Installation

3/8" Nut Driver and/or 3/8" Socket and Ratchet

9/16" Socket w/Driver for Optional Seismic Mounting

Screwdrivers - Straight Blade, Phillips Head and Square Head (Robertson) Screw driver (Neutral and Ground Connector)

10MM Socket and Ratchet – or – 10MM Wrench (Torque set to 30 in-lbs.)

Hardware for securing cabinet to floor – i.e. Hilti Kwik Bolt or equivalent

Multi-Meter capable of AC and DC Voltage Measurements

Clamp-On Current Meter capable of AC and DC Current Measurements

INSTALLATION GUIDELINES

Step 1: Cabinet Installation

Prepare the floor so that it is level and smooth and secure cabinet into floor using Concrete Wedge Anchors or other suitable method (hardware provided by others). Refer to Section 6 for installing optional seismic restraints.

Floor mounting brackets are secured to the cabinet from factory.

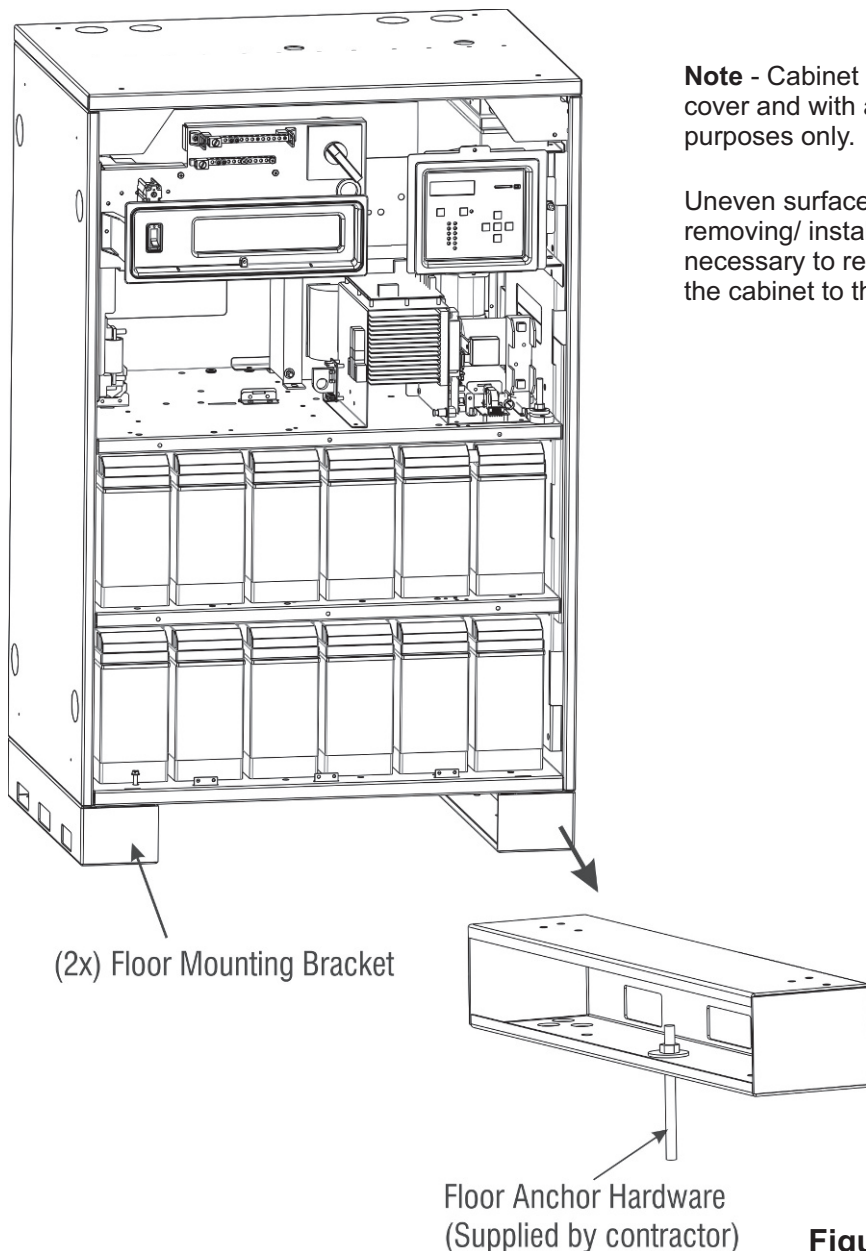


Figure 1: Cabinet Installation

Step 2: Battery Installation

1. Load all batteries onto the shelves and space equally so that battery to battery jumpers (Busbar) can be installed properly. If seismic option is required, refer to section 6 for instructions on mounting the seismic restraints to the batteries before proceeding.
2. Connect J6 (Battery Jumper Cable) from lower right battery(+terminal) to upper left battery(-terminal) on all models.
3. Connect Battery cable connector to the inverter.
4. Connect all battery jumpers (Busbar) between adjacent batteries.
5. Connect Battery String Negative (lower left battery -terminal)
6. Measure and ensure correct DC string voltage and ensure all connections are made.

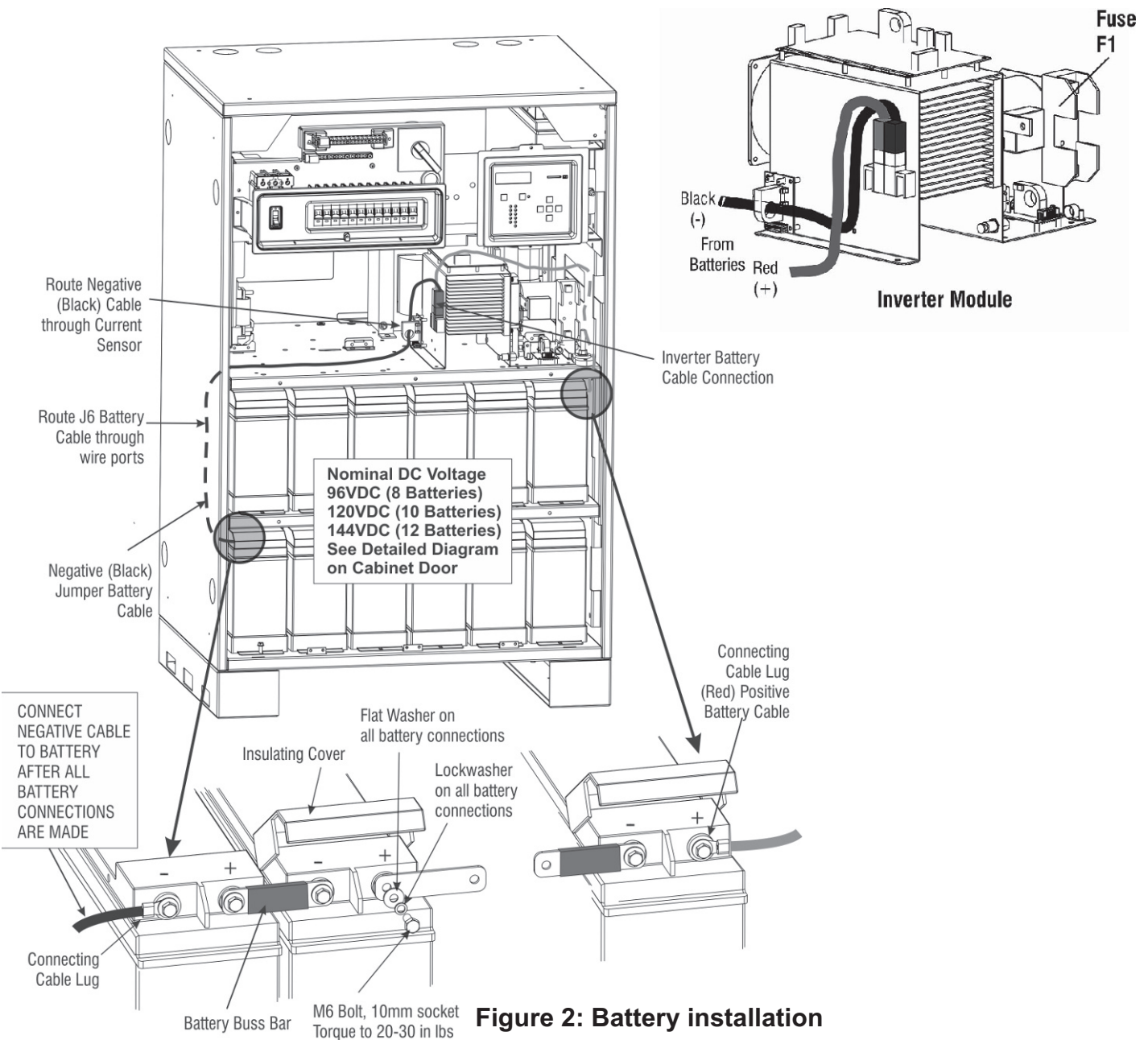
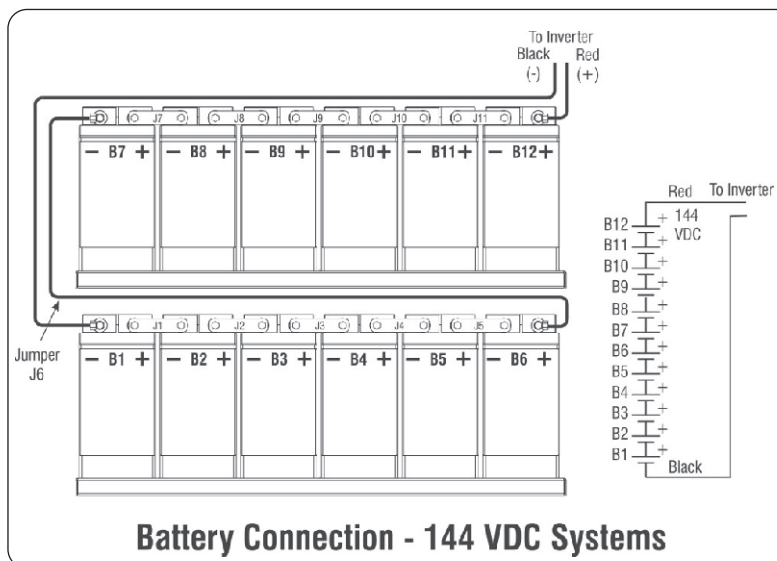
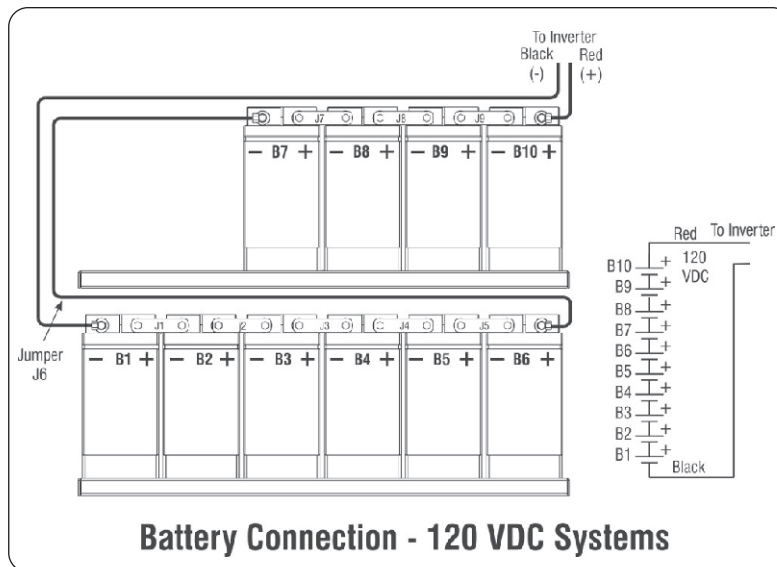
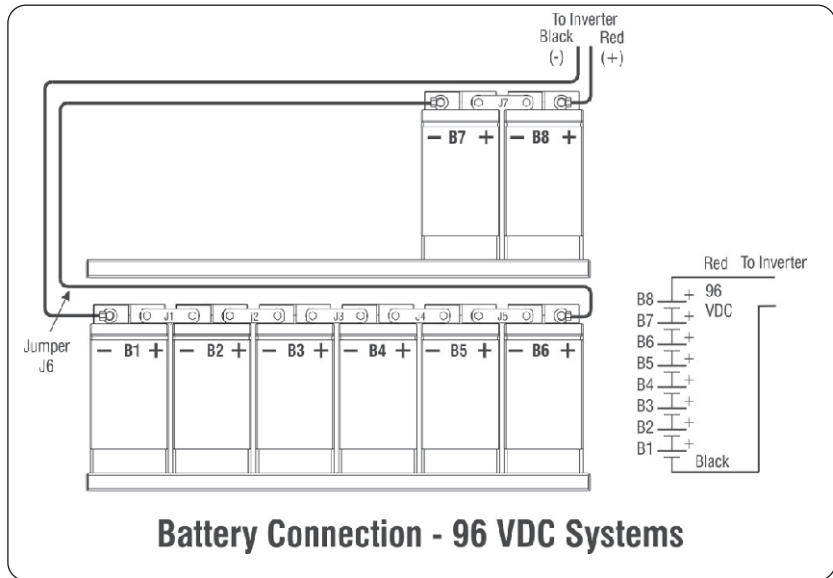


Figure 2: Battery installation

Step 2: Battery Installation continued

NOTE: Battery String Positive and Negative wires along with J6 Battery Jumper Cable (If required) come pre-lugged and installed from the factory.



Step 3: Conduit Installation

*** Use Provided Knock-Outs located on Top and Sides of Inverter Cabinet ***

Note – Drilling into cabinets may VOID warranty - metal shavings can short circuit electronic components.

Input and Output Wires should be run in separate conduit per NEC.
Knock-Outs are sized for standard 3/4" and 1" conduit.

Follow all Local and National Electrical Codes (NEC)

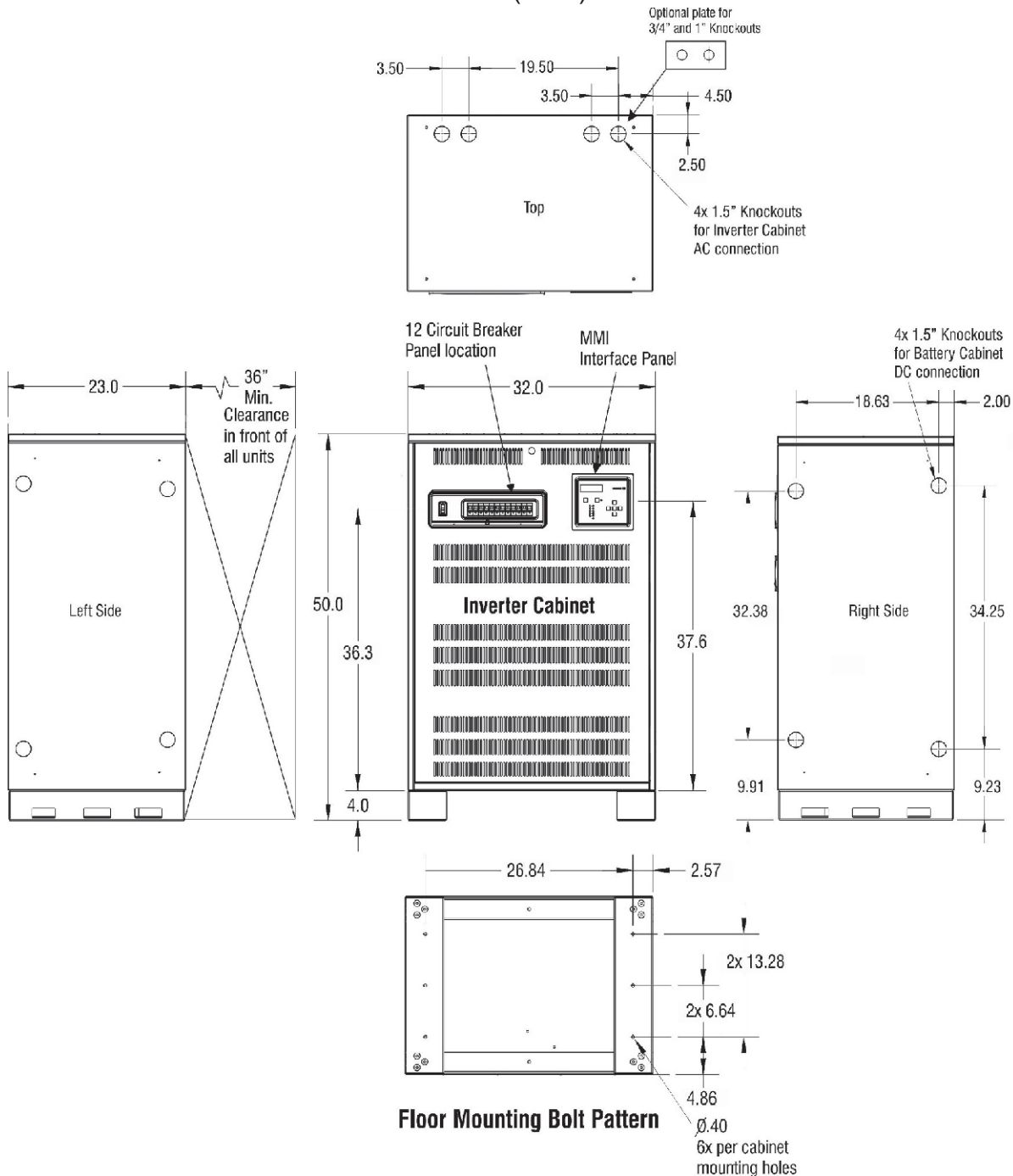


Figure 3: Overall mounting dimensions and knockout locations

Step 4: AC Input/ Output Wiring

Locate AC Input Breaker CB1 and ensure it is in the OFF (Down) position before starting.
See Installation/Operating manual (section 7) for AC Input and Output AC ratings.
Note - AC Input Breaker CB1 is always provided and located far left on Din-Rail assy.

Remove the Plastic Circuit Breaker Cover (secured with 2 x 1/4-20 bolts).
Install AC Input Feed Wire to the top side of Circuit Breaker CB1.
Note - If Maintenance Bypass Switch is provided, Install AC Input Feed Wire to the top side of the Terminal Blocks mounted on the Din-Rail assembly.

Install Input Neutral and Ground connections to appropriate Neutral and Ground Bars.
Do not share Neutrals with Emergency and Non- Emergency loads.

Install AC Output Wires to the top side of the Normally-On Terminal Block or Output Circuit Breakers if provided. Standard equipment always has a Normally-On Output Terminal Block for output wire connections.
Note - AC Output Breakers are Optional.

Follow all Local and National Electrical Codes (NEC).

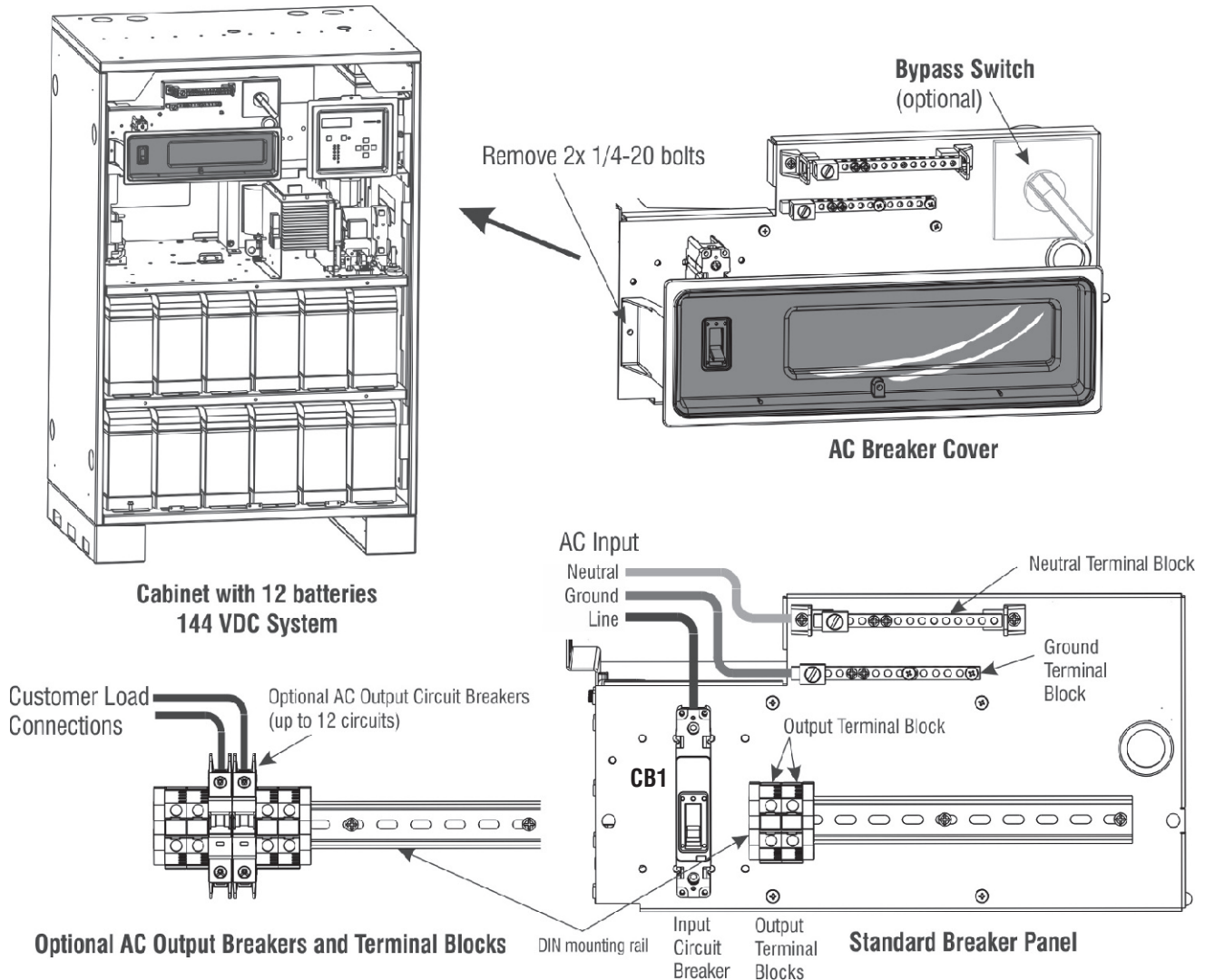


Figure 4: AC Wiring

Step 5: Energizing System

Ensure ALL batteries are installed and the wiring is checked per Step 2.
Ensure CORRECT AC Power is present and loads are connected per Step 4.
Ensure Input Breaker and System On/Off switch are in the OFF position.

Energize Input Circuit Breaker CB1.
Energize System's On/Off Switch located to the right of the Interface Panel.
The system will go through start up diagnostics and go into charge mode if there are no errors. Press the system test button or momentarily turn off the AC power to energize emergency power and ensure that the inverter can support the loads without going into a fault condition.

Replace and secure AC Breaker Cover and its clear access window with locking screw.
Install front cover to Cabinet.

Step 6: Optional Seismic restraints

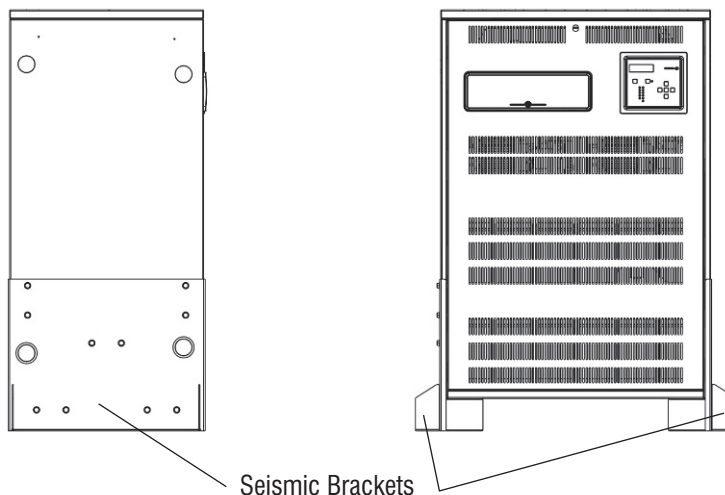
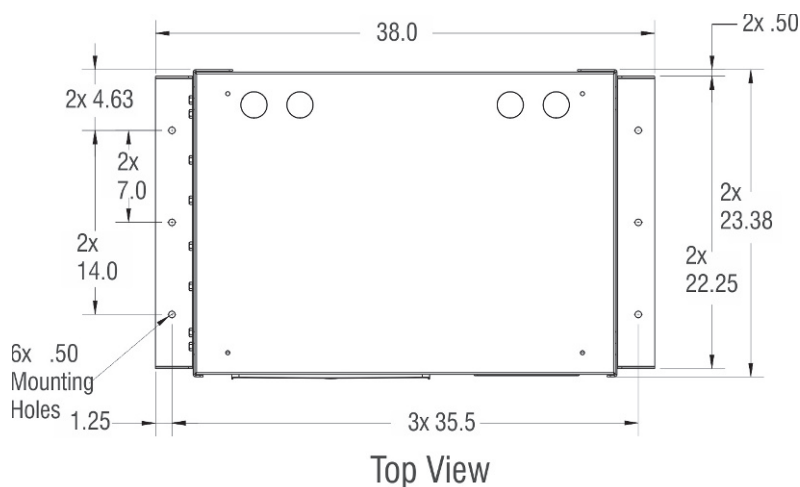


Figure 5: Seismic brackets mounting locations

SECTION 6: Optional Seismic Restraints continued

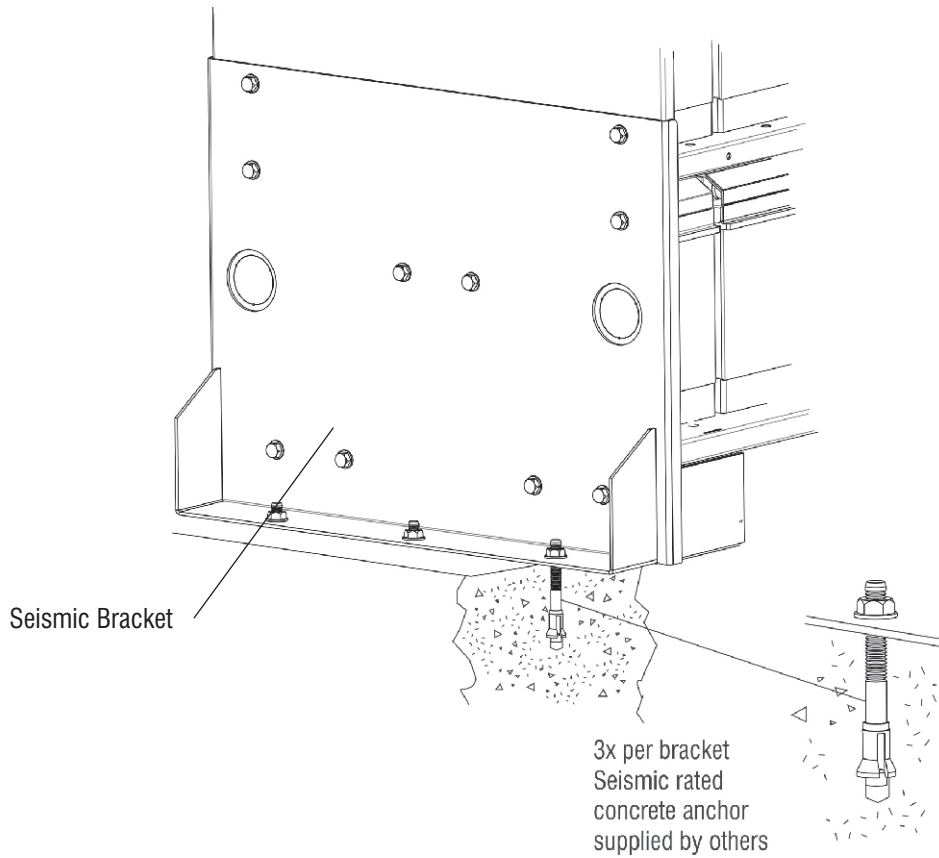


Figure 6: Seismic brackets mounting

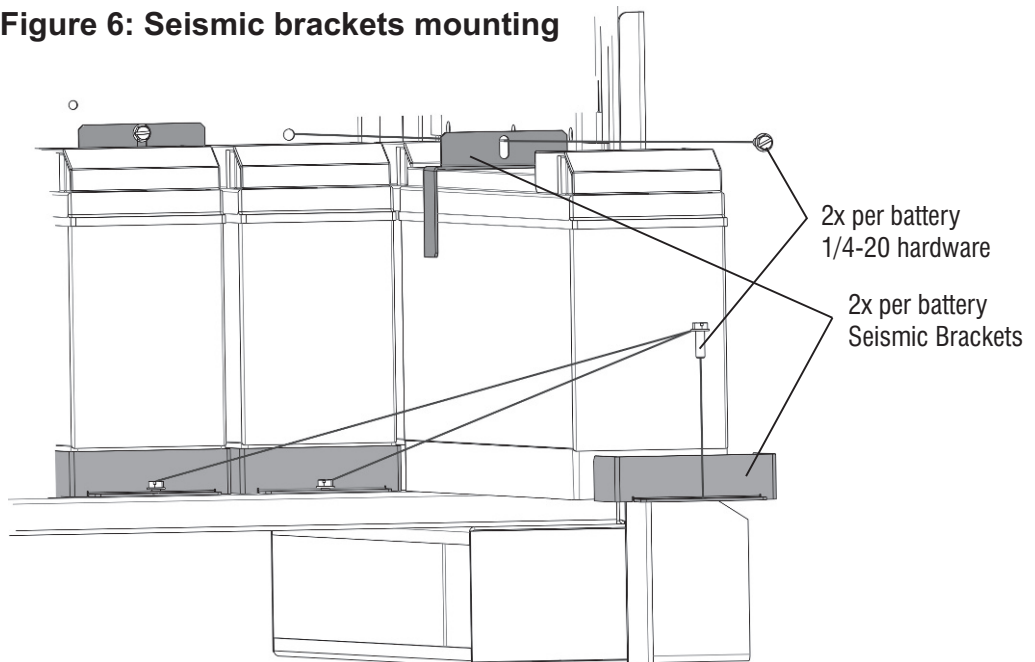


Figure 7: Battery Restraints (Seismic option)