

Contractors Guide

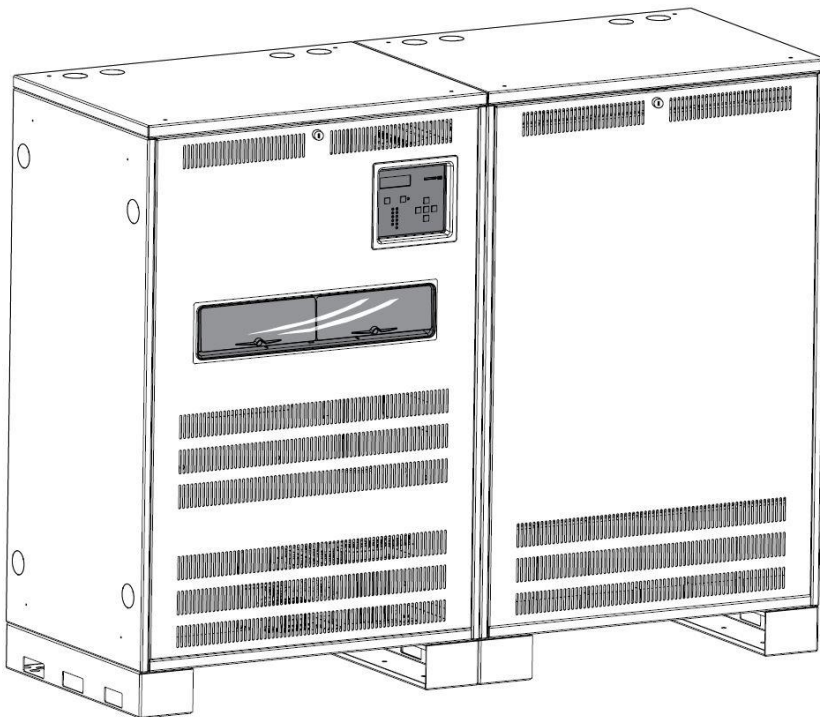
Central Inverter System Installation

Step By Step Procedures – 5,000 Watt/VA (Two Phase)

Two Cabinet Mounting Guidelines

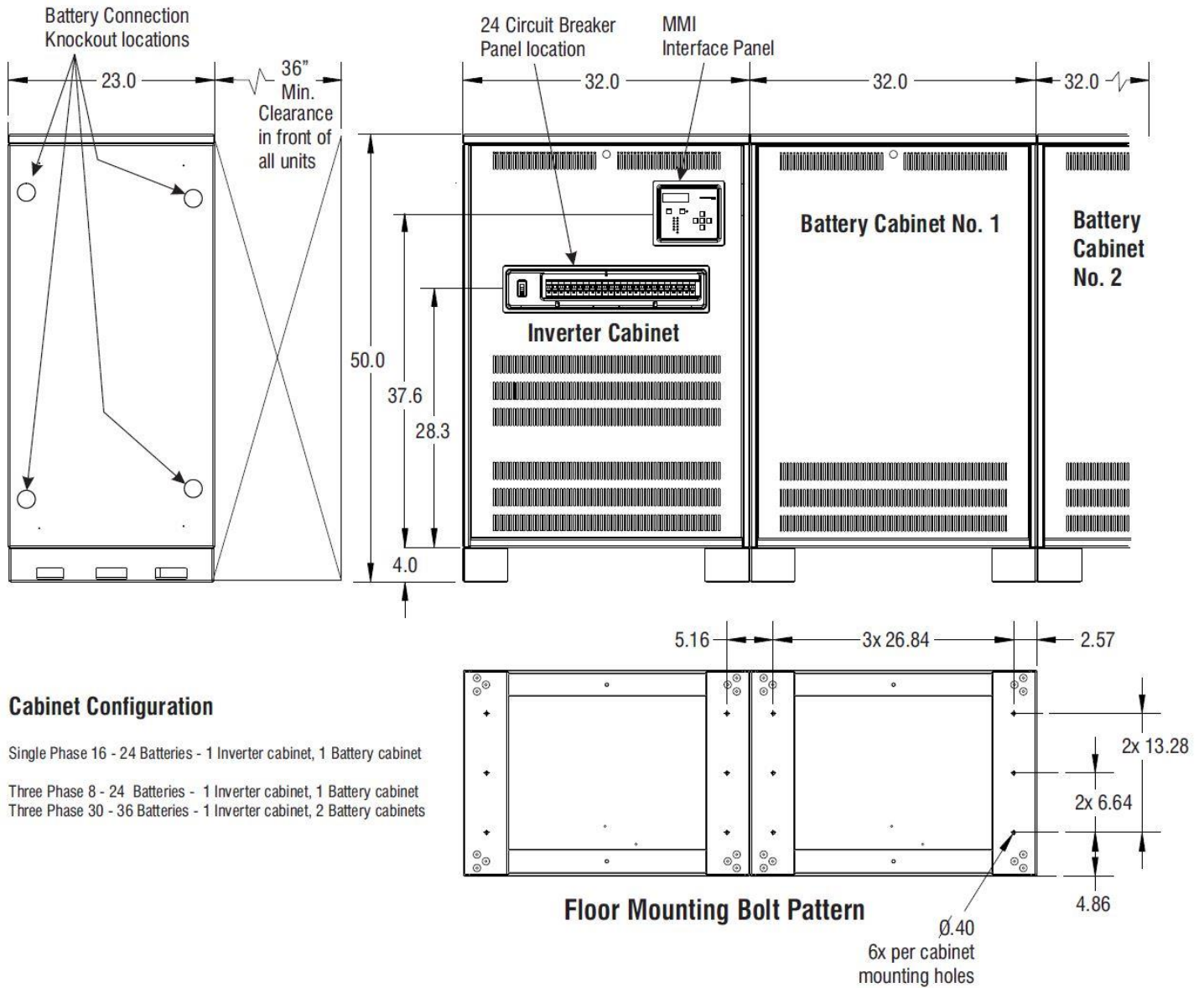
5 Step Installation

1. Mounting the Cabinets
2. Install / Connect Batteries
3. Install Conduit
4. Install AC Wiring
5. Energize System



Inverter shown is 5.0 KW
Two-Phase Model using
two cabinets mounted side
by side.

For additional
information, please
refer to the
Installation/Operation
Manual



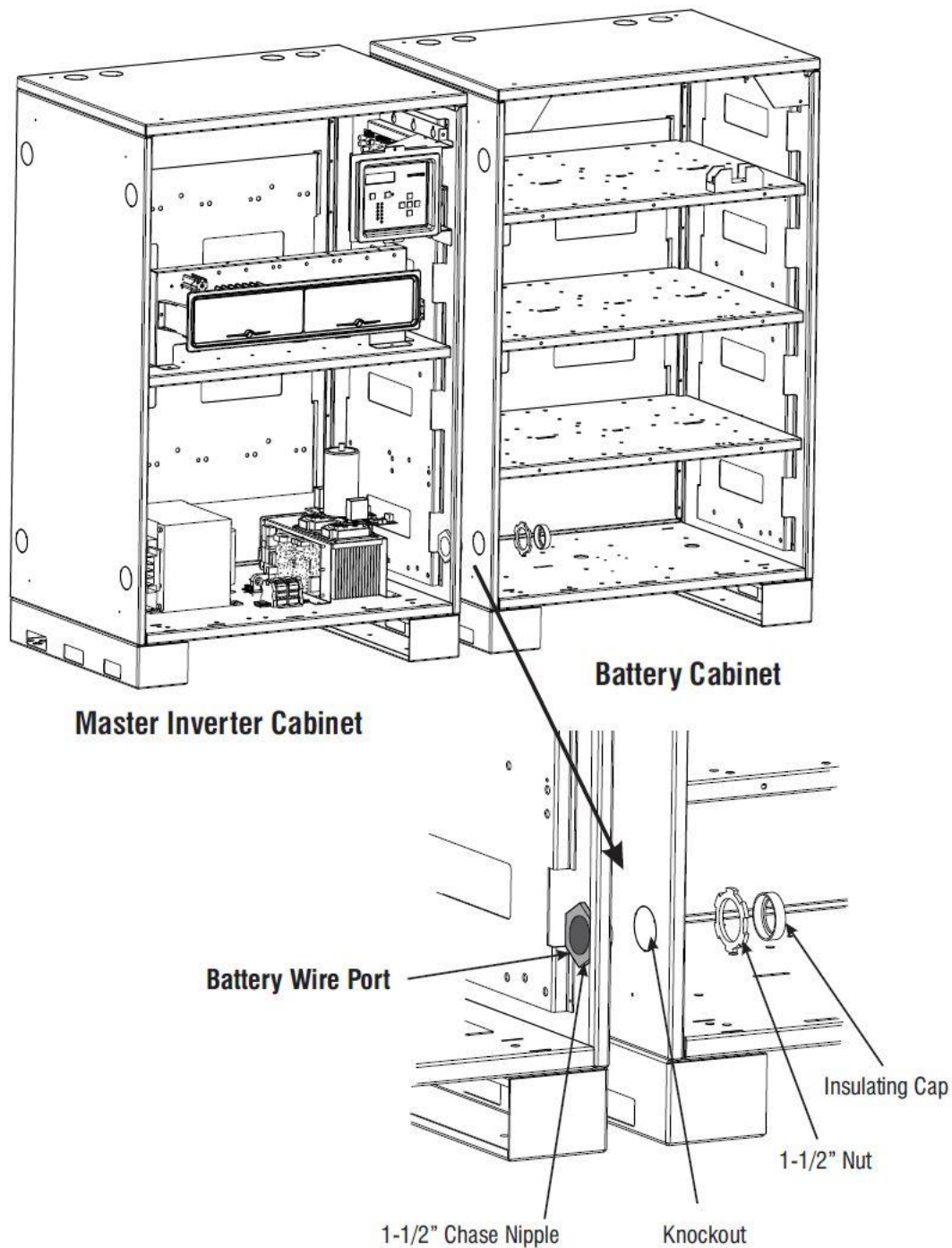
Overall Mechanical Dimensions

Step 1

Mounting the Cabinet(s)

Prepare 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).

Note - Uneven surfaces may cause difficult front cover removal/installation

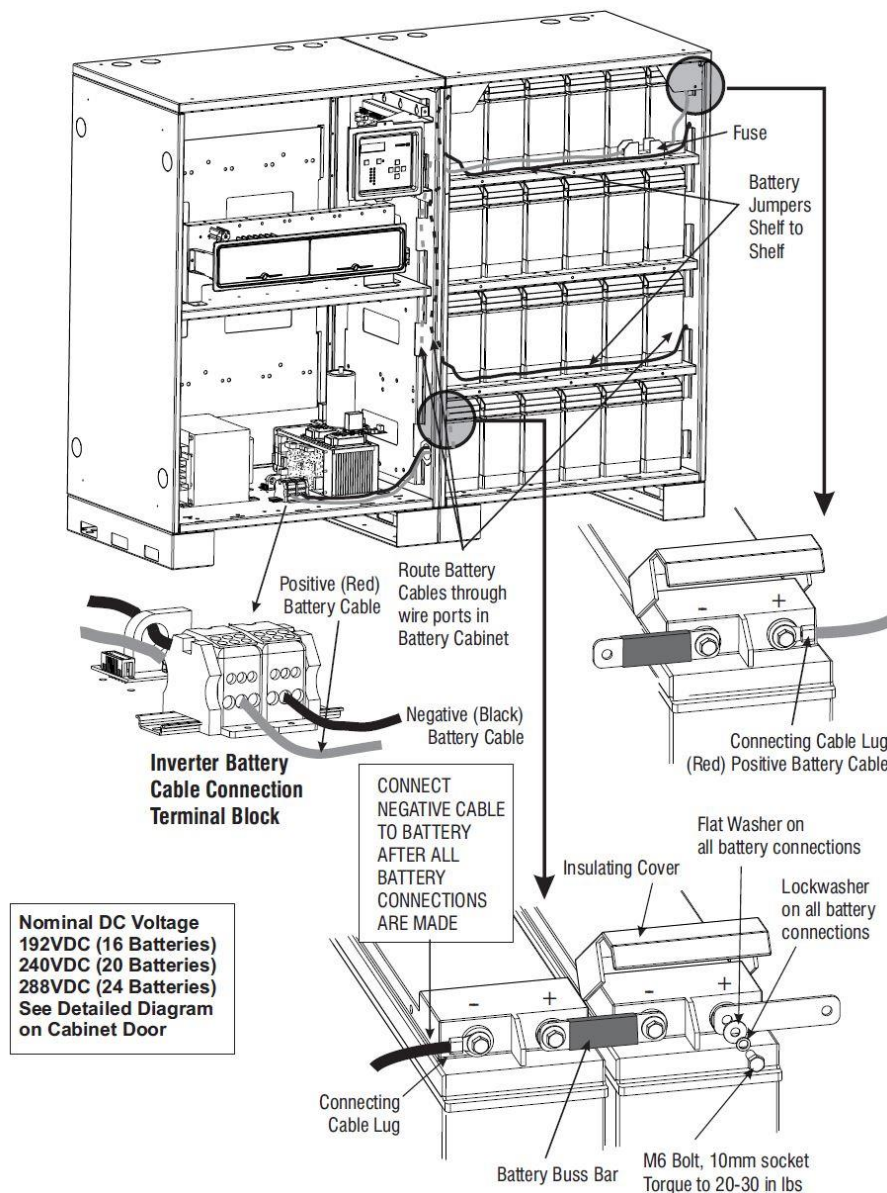


Step 2 Installing and Wiring the Batteries

Note – Always ensure that the DC Fuse (located in the Inverter Module) is removed before starting installation.

Battery positive and negative are pre-wired into the inverter module.

1. Load all 10 batteries onto the battery shelves. Ensure proper spacing between batteries so that Battery-Battery Buss Bar Jumpers can be installed properly in Step 4 below.
2. Connect 1x Battery Jumper Cables from lower right battery (+) to upper left battery (-).
3. Connect Battery String Positive.
4. Connect all Battery Buss Bars between adjacent batteries.
5. Connect Battery String Negative.
6. Measure and ensure correct DC string voltage (120VDC) and ensure all connections are made.



5.0 KW Two Phase
120 VDC
(10 batteries)
Single String

Step 3 Installing the AC Conduit

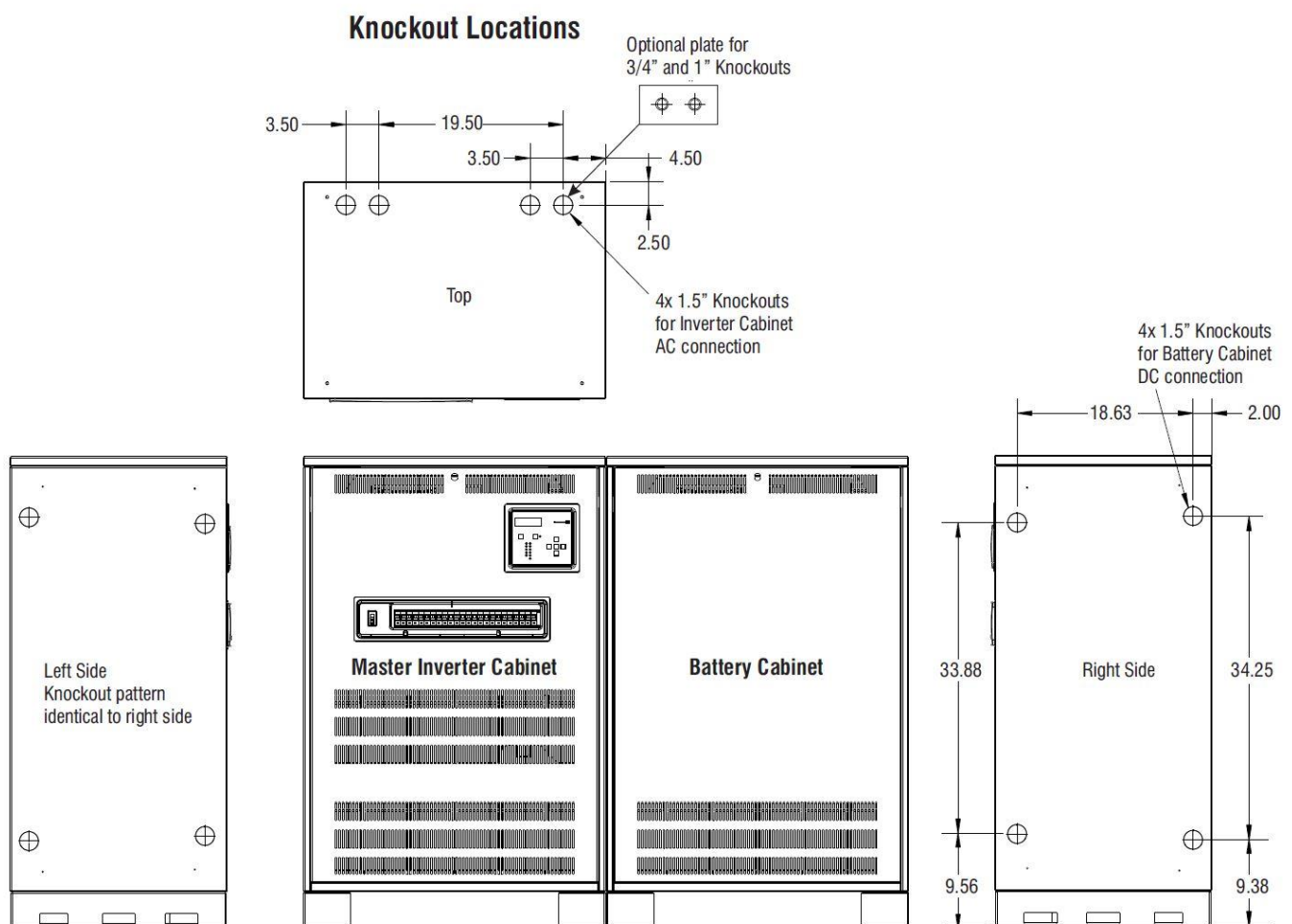
Use Provided Knock-Outs located on Tops and Sides of Inverter Cabinet

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

Input and Output Wires should be run in separate conduit per NEC.

Knock-Outs are for 1.5 inch conduit pipe.

Follow all Local and National Electrical Codes (NEC)



Knockout Locations for Top, Left and Right Sides

Technical Support / Installation Questions – Call 1-800- 800-967-5573 (Monday-Friday, 8AM-5PM EST)

Step 4 **Installing the AC Wiring**

Ensure the AC Input Breaker CB1 is in the OFF (Down) position before starting.

See Installation/Operating manual (section 7) for AC Input and Output AC ratings.

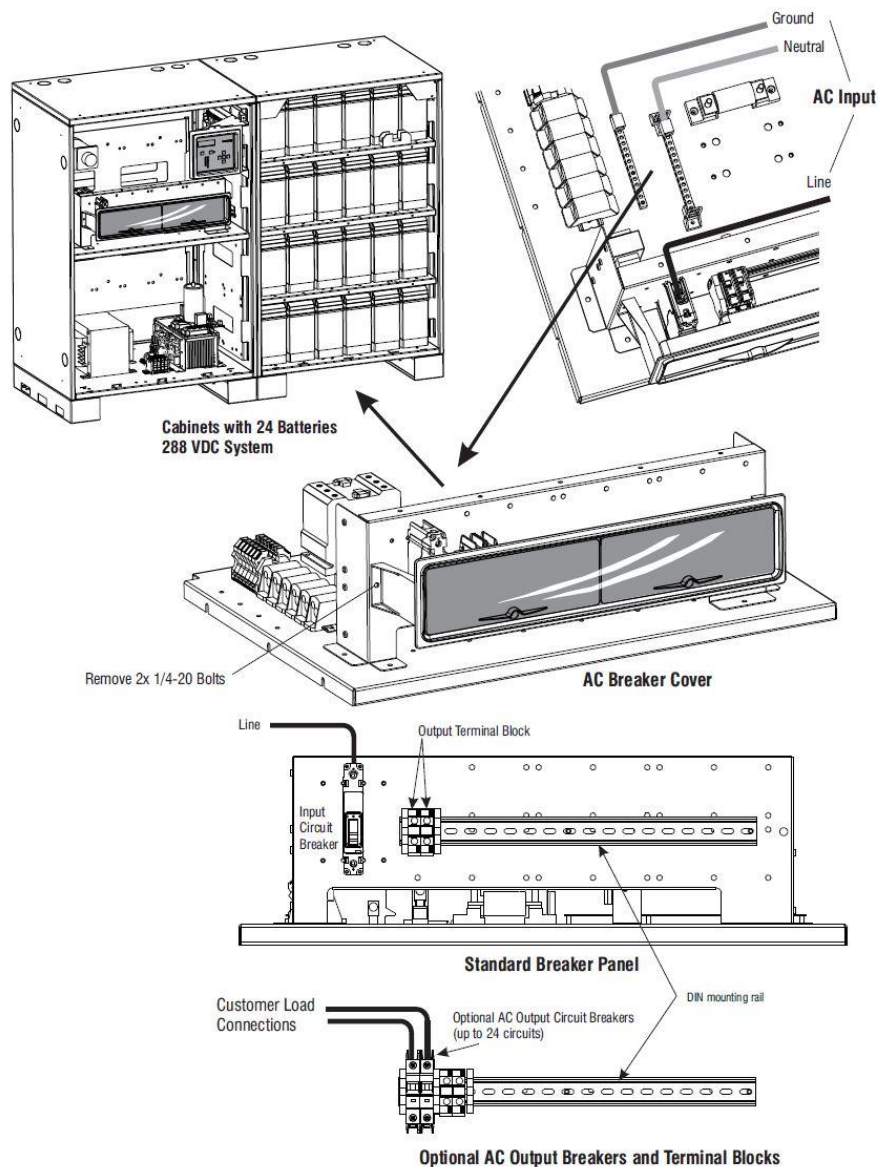
Remove Plastic AC Circuit Breaker Cover (secured with 2 x ¼-20 bolts).

Wire AC input directly to top side of Input Breaker - AC Input Circuit Breaker on Left side.

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

Connect AC output wires to the top side of Normally-On terminal block or output circuit breakers if provided. Standard equipment always has a Normally-On output terminal block for output wire connections. AC Output Breakers are Optional.

Follow all Local and National Electrical Codes (NEC)



Standard Output Terminal Block Illustration

Step 5 Starting Up/Energizing the Unit

Ensure batteries are installed, the wiring is checked and the DC fuse is installed per Step 2.

Ensure AC Power is present and lighting loads are connected per Step 4.

Flip on Input Circuit Breaker CB1.

Flip on System's On/Off Switch located to the right of the Interface Panel.

System will go through start up diagnostics and go into charge mode if there are no errors.

Press the system test button or momentarily drop AC power to energize emergency power and ensure that the inverter can support the lighting loads without going into a fault condition.

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Replace and secure AC Breaker Cover and its clear access window with locking screw.
Install all front covers to Battery and Inverter Cabinets.

Contents of shipment

5.0 KW Two Phase Models include:
Cabinets – Two Cabinets for batteries and electronics.
Floor Mounting Brackets – Attached to Cabinets.
Batteries – 10 pcs.
Battery Cable Kit
Installation/Operation Manual
Contractors Guide

Tools Required for Installation (typical all models)

3/8" Nut Driver and/or 3/8" Socket and Ratchet
Straight Blade Screwdriver(s)
Square Head (Robertson) Screwdriver
Phillips Head Screwdriver - #2
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 DC and AC Measurements