

## Start Up the Inverter and Disconnect

1. Turn the AC breaker ON at the main circuit breaker at the utility service panel.

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**Note:** For all temperature conditions the VOC for each series connection must total less than the 500 VDC for all residential inverter models.

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2. Turn the PV System Disconnect ON.

- Verify that the green LED indicator light is illuminated (upper left corner of front panel).
- After five minutes, the Inverter will start to produce power if adequate sunlight is present.

3. Check the LED indicator(s) lights to make sure the Inverter is operating properly:

- **GREEN** LED – operating safely
- Flashing **RED** LED – fault condition
- Solid **RED** - the Inverter is turned OFF.

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**Note:** If there is a Fault or Unsafe condition, refer to the Troubleshooting section of the Installation and Operations Manual.

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## INSTALLATION QUICK START

**Grid Tied Residential Inverter Models**  
PVP1100, PVP2000, PVP2500, PVP2800, PVP3000,  
PVP3500, PVP4600, PVP4800, and PVP5200

*This Quick Start Guide provides basic information for installing the PV Powered Grid Tied Residential Inverter.*

### Product Package

Your inverter comes with the following:

- Installation and Operations Manual
- Installation Quick Start Guide
- System Warranty Checklist
- Positive and Negative Grounding Jumpers
- Paper Mounting Template

### SAFETY INSTRUCTIONS

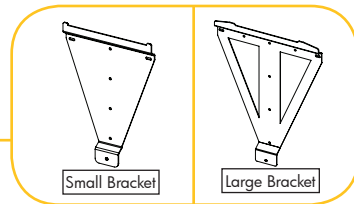
**Please read all safety warnings and instructions before installing or operating the Inverter. The Installation and Operations Manual contains important instructions for the PV Powered Grid Tied Residential Inverter product line that must be followed during installation and maintenance of these Inverters.**

## Install the Inverter and Disconnect

The following steps give you a quick overview of how to install and commission your Inverter and disconnect. For more details, please refer to the Installation and Operations Manuals.

1. One of the brackets shown at right is provided, depending on the inverter size. Locate the wall stud(s) in the desired location and align the bracket or paper mounting template over the stud(s). Drill pilot holes for the screws and secure the inverter mounting bracket to the wall.

Figure 1



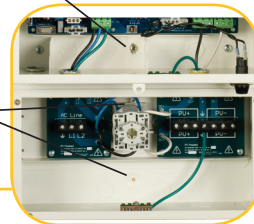
2. Hang the Inverter on the mounting bracket.

**CAUTION:** Make sure the PV system disconnect switch is OFF prior to removing lid.

3. With the lid removed, secure the Inverter cabinet to the mounting bracket.

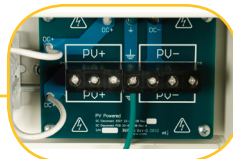
4. Secure the disconnect cabinet to the wall through the two internal locations using the recommended lag bolts and washers.

Figure 2



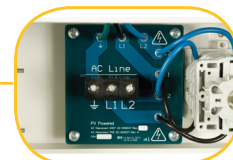
5. Wire the PV system array making sure the PV System Disconnect switch is in the OFF position,

Figure 3



6. Wire the AC making sure the main circuit breaker at the utility service panel is switched OFF before connecting to the AC terminal block.

Figure 4



**Note:** In the PVP1100 unit, Line 1 is the only phase voltage wire, Line 2 is the neutral, and Line 3 is the AC Ground.

## Commission the Inverter and Disconnect

**When you turn on the Inverter for the first time, complete these steps in the following sequence:**

1. Make sure the Inverter is disconnected from the input source(s) by verifying the PV System Disconnect is off.
2. Verify DC VOC voltages are within specified ranges as determined by the system design.

**Note:** For all temperature conditions the VOC for each series connection must total less than the 500 VDC for all residential inverter models.

3. The following steps are required to validate there is no ground fault in the PV array and to install the GFI jumper:

- Determine the PV system grounding schema, negative or positive, as recommended by the PV module manufacturer.
- Remove the GFI fuse.
- Check the fuse's continuity.
- Install either the negative or positive GFI jumper.

Figure 5



- Perform a ground fault check; see the Installation chapter of the Grid-Tied Inverter Installation and Operation Manual. Locate and remove any ground fault before proceeding.
- Re-install the GFI Fuse.

4. Secure the lid of the Inverter and disconnect.
5. Rotate the PV System Disconnect handle to the ON position.
6. At the utility service panel, turn the breaker to the ON position.