

DIY SOLAR

***DETERMINING YOUR ARRAY LOCATION:**

1. Size constraints
2. Shading
 - a. Solar Pathfinder
 - b. Chimneys, Satellite Dishes, Vents

***APPLY FOR PERMITS/ UTILITY INTERCONNECTION:**

<https://www.ppelectric.com/at-your-service/electric-rates-and-rules/customer-owned-generation.aspx>

Interconnection requirements:

1. Inverter cut sheet
2. Plot Plan
3. One Line Diagram
4. Application (10,000 va or smaller)

(ALL specifications should come right off of your inverter spec sheet)

***INSTALLATION PROCESS:**

1. Measure the area your system will cover on your roof
2. Find your Roof Rafters
3. Determine where your roof attachments will fall
 - a. Every 48"
 - b. 12"-15" from top of panel and bottom of panel
 - c. No more than 12" from left or right side of panels on end of a row
4. Install Rails
 - a. Use a dry line
 - i. to levels rails
 - ii. To align ends of rows
 - b. Install splice bars
5. Install Micro inverters
 - a. Install Trunk Cable
 - b. Install Bond Wire

- c. WIRE TIE (Black) cables and wires to rail
6. Install Panels
 - a. End Clips
 - b. Click together Wires
 - c. Install WEEB (bonding Tab)
 - d. Install Mid Clips
7. Install JCT Box
 - a. Install using weather tight connections
 - b. Run 12/3 Romex to outside disconnect (Near Meter)
 - c. From outside disconnect to electric panel
8. Install Breaker (Double 20 breaker in bottom of electric panel)
9. LABEL the system,
 - a. Warning signage
 - b. Output labels
10. Inspection
 - a. Inspector signs the part two of INTERCONNECTION PAPERS
 - b. Signs off on permit

***UTILITY APPROVAL:**

1. Utility will notify you that you are allowed to turn your system on
2. Turn system on