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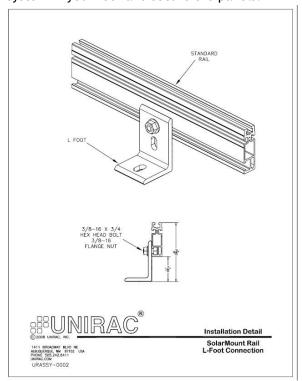
## 5KW Roof Installation Manual

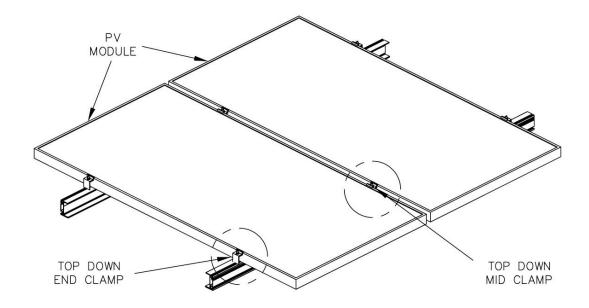
## Include Elements:

- Solar PV Panels: Total 5KW: Typical solar panels are 310Watts, size 5.5ft x 3.3ft. 16PCS
- Unirac™ roof installation parts.
- SMA Grid-Tie Inverter 5KW or Similar top brand, approved by utility
- DC wire with MC4 connectors & AC wire.
- AC Disconnect as per utility

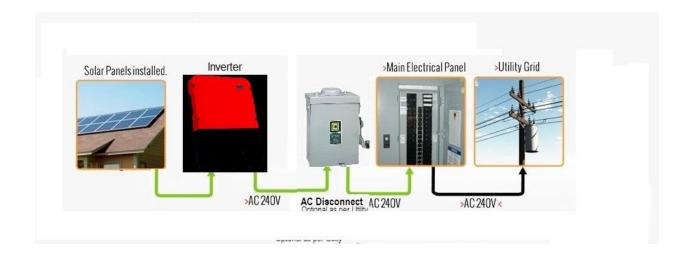
## **Installation Steps**

1. Using Unirac Universal PV Module Roof Mounts installation booklet, install the roof mount system in your roof and secure the panels.



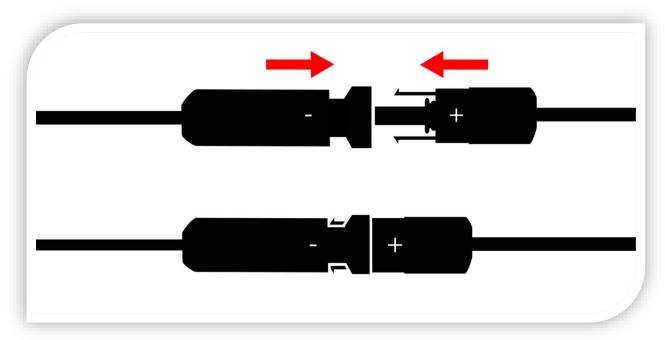


2. Attach the 10guage ground wire (not provided and can be bought from local store) to the rail.

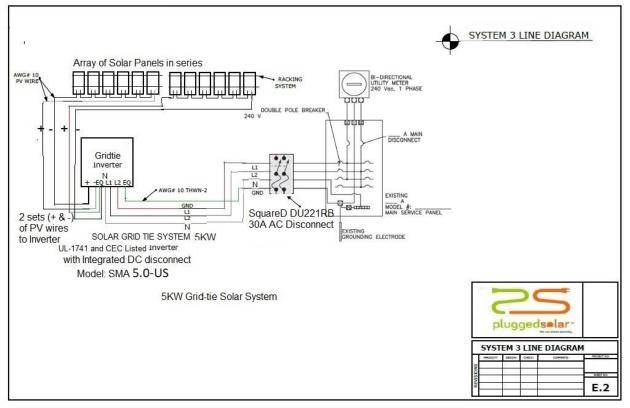


3. Attach the 10guage ground wire (not provided and can be bought from local store) to the rail.

4. Start the connecting solar panels with each other, positive/male to negative/female in series, using the snap-plug connectors.

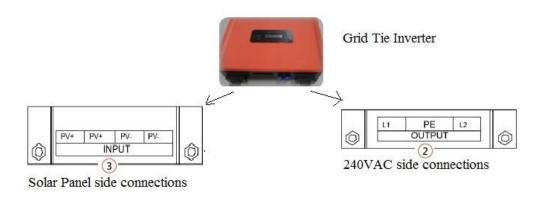


- 5. Attach the Inverter Box plate on the wall
- 6. Attach the DC cables from the Solar Panels to the '+' and '-' of the PV side of inverter connections. Please make sure the polarity is correct. Please see the drawing below.

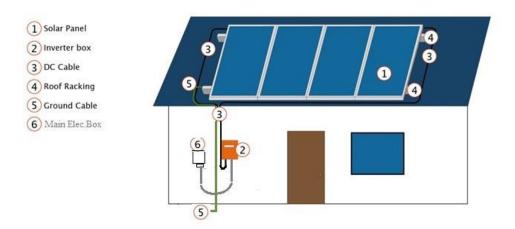


7. Attach AC cables to the AC side of the inverter. Connect the naked copper wire to the "PE" slot as shown in drawing tomorrow. The other two wires go to 'L1' and 'L2'

- 8. Wires from the AC side of the inverter go to one of the available 240V AC circuit breaker (min 25Amp). If there is none available, you may buy one circuit breaker from the local hardware store and put into a vacant slot of the electric box. It is highly recommended to get a professional electrician to do the 240VAC work.
- 9. Turn on the breaker, wait 6 minutes for the Plugged Solar System to start and check the Monitor display.



SOLAR PATIO / ROOF INSTALLATION



10. Start saving money on electricity by using Plugged Solar™.

If you want ground mount system, please contact us for ground mount additional racking.

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