



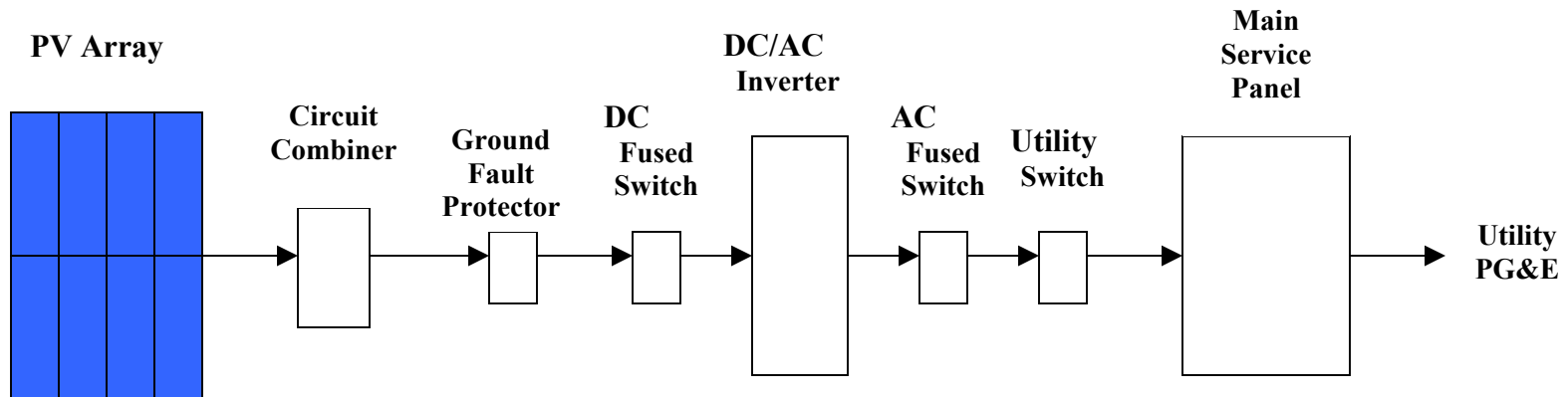
**Requirements for PV System Permit  
(Grid-Tied PV System Only)**

1. Address of PV system. \_\_\_\_\_
2. Permit Number: \_\_\_\_\_
3. Wire from array to combiner.
  - Size \_\_\_\_\_ (minimum #10 copper)
  - Type \_\_\_\_\_ (recommend USE-2)
  - Length \_\_\_\_\_
4. Wire from combiner to inverter.
  - Size \_\_\_\_\_ (minimum #6 copper)
  - Type \_\_\_\_\_
  - Length \_\_\_\_\_
5. Size of conduit \_\_\_\_\_
6. Provide a copy of the label from the back of the module or information showing listing from the manufacture.  
This label must show,
  - Watts - Volts - Fuse Size
7. Size of DC Disconnect and Ground-Fault Protection before Inverter. \_\_\_\_\_
8. Size of wire from Inverter to Main breaker box. \_\_\_\_\_
9. Length of wire from Inverter to Main breaker box. \_\_\_\_\_
10. Size of Disconnect @ Main breaker box. \_\_\_\_\_
11. Size of Main Breaker box. \_\_\_\_\_
12. Size of Array Grounding Conductor. \_\_\_\_\_
13. Provide a site drawing showing the location of the main system components – PV Array, conduit runs, electrical boxes, inverter enclosure, critical load subpanel, utility disconnect, main service panel, and utility service entrance. (See EX-2 attached)
14. Provide a one-line diagram showing all significant electrical components, i.e. wire sizes, types. (See EX-1 and EX-5 attached)
15. How is the Array to be secured to the roof i.e. directly to roof, raised Array parallel to roof, raised Array with greater pitch than roof? If system is not a packaged system, you must provide wind load calculations for a minimum of 80 mph.
16. **I understand if the PV system does not conform to the approved plans, I will have to submit an as-built set of plans to the Building Division for plan check.**

Signed \_\_\_\_\_

**NOTE: A permit will not be issued until this form is completed in full.**

## Example – Grid-Tied PV System



### Notes:

1. PV Array contains five 48-Volt DC series strings of 100-Watt Modules (20-modules).
2. PV Array Circuit Combiner contains 15-amp fuses rated at 125 Vdc.
3. DC Fused Switch rated at 60-amp, 240 Vdc (my be circuit breaker)
4. DC/AC Inverter rated at 2kW AC output at 240-Volts and is Listed to UL-1741 “Utility-Interactive”.
5. AC Fused Switch rated at 30-amps, 240 Vac (my be circuit breaker)
6. Utility Switch is visible open, lockable in open position, 240-Vac 60-amp switch.
7. 100-Amp Main Service panel with 20-amp two-pole Circuit Breaker for Interactive Point of connection (up to 3.5 kW, 240-Volt inverter)
8. Equipment ground equivalent to PV array conductor size on DC-side of system.
9. Equipment ground according to NEC Table 250-122 on AC-side.
10. Negative pole of PV array referenced to ground at the Inverter.
11. All grounds connected to main service ground in Main Service Panel.

Drawn by: \_\_\_\_\_

Date: \_\_\_\_\_

Scale: N/A

**EX-1**

# Example – Site Drawing

