

Net Metering Installation Standards - No REC Meter (Interconnection at Panelboard - RE System Visible Disconnect Device at Inverter Output Circuit Conduit)

- ☐ 1. INVERTER OUTPUT CIRCUIT (IOC)
 - ☐ 1.1 If exposed, should be contained in Rigid Steel/Metal Conduit (RSC/RMC) or Intermediate Metal Conduit (IMC)
 - ☐ 1.2 Conduit must be properly secured by clamp
- ☐ 2. RENEWABLE ENERGY (RE) SYSTEM VISIBLE DISCONNECT DEVICE (See Figure 1)
 - ☐ 2.1 Location is accessible and outside of Customer's premises
 - ☐ 2.2 Should be in a metal enclosure with a minimum rating of NEMA 3R, IP54 or equivalent
 - ☐ 2.3 Must have a visual indication of the contact's position and handle must be lockable in the open position
 - ☐ 2.4 Permanent warning sign mounted on or adjacent to the disconnect device and shall read prominently as follows (See Note 2):

WARNING:
ELECTRIC SHOCK HAZARD. DO NOT TOUCH TERMINALS.
TERMINALS ON BOTH THE LINE AND LOAD SIDES
MAY BE ENERGIZED IN THE OPEN POSITION.
(RENEWABLE ENERGY SOURCE)

- ☐ 2.5 An Overcurrent (OC) Protection is required within 3 meters if tapping point is at supply side of the panelboard
- ☐ 3. Connection of conduit to any enclosure:
 - ☐ (i) For Top or Side connection:
 - (a) If NEMA 3R : Use the built-in standard fitting
 - (b) If modified NEMA 3R : Use NEMA 3R Watertight Conduit Hub
 - ☐ (ii) For Bottom connection: Use Locknut and Bushing
- ☐ 4. PANELBOARD (can also serve as the Service Equipment if within 15-m conductor length from Service Point, is metal encased, and functions as the main control/cut-off of the supply) (See Figure 2)
- ☐ 5. BI-DIRECTIONAL METER
- ☐ 6. Install SERVICE PROTECTIVE DEVICE (SPD) if the Panelboard / Service Equipment is located more than 15-m conductor length from Service Point

a – Varies depending on the type of customer's electric service and metering installation

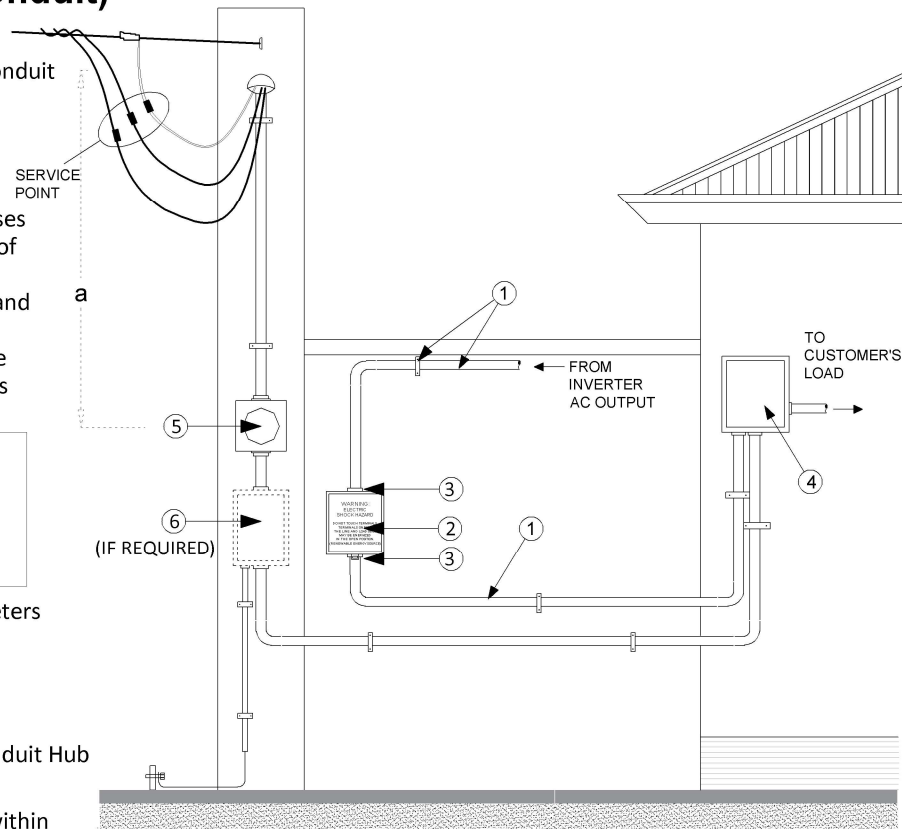
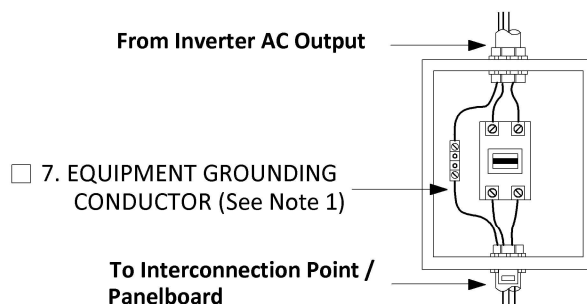


Figure 1 - RE SYSTEM VISIBLE DISCONNECT DEVICE

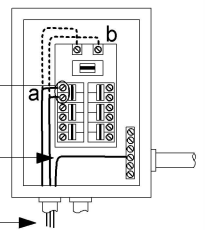
Figure 2 - PANELBOARD / SERVICE EQUIPMENT

SINGLE-PHASE

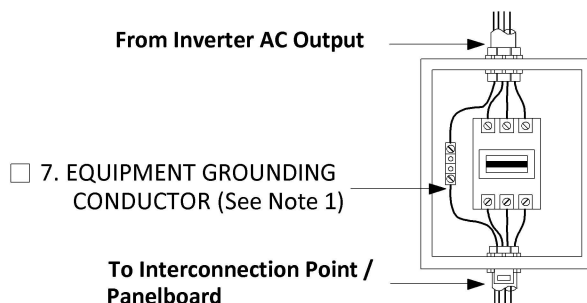


- ☐ 8. Interconnection to the MERALCO Service (See Note 3)
- ☐ 7. EQUIPMENT GROUNDING CONDUCTOR (See Note 1)

From RE System Visible Disconnect Device

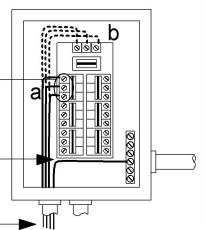


THREE-PHASE



- ☐ 8. Interconnection to the MERALCO Service (See Note 3)
- ☐ 7. EQUIPMENT GROUNDING CONDUCTOR (See Note 1)

From RE System Visible Disconnect Device



NOTES:

1. EQUIPMENT GROUNDING CONDUCTOR (EGC) shall be bonded to the RE System, RE System Visible Disconnect Device, Panelboard/Service Equipment and SPD (if used).
2. Letters should be in uppercase and should have a minimum height of 6 mm.
3. Interconnection Point (Tapping Point) is at the (a) DEDICATED BRANCH CIRCUIT BREAKER or (b) SUPPLY SIDE of the PANELBOARD / SERVICE EQUIPMENT. (Phase conductors are not shown in the blow up detail)
4. Only the standards for Net Metering Installation are reflected in the diagram. All other related provisions (i.e., PEC, and existing standards for Service Entrance Installation, Service Equipment and Grounding) shall still be complied.