

Net Metering Installation Standard for Three-Phase Self-Contained Metering (Interconnection at Panelboard)

- ☐ 1. INVERTER OUTPUT CIRCUIT (From INVERTER to REC METER)
 - ☐ 1.1 Should be fully contained in an exposed and surface-mounted conduit
 - ☐ 1.2 Should be Rigid Steel/Metal Conduit (RSC/RMC) or Intermediate Metal Conduit (IMC)
 - ☐ 1.3 With Galvanized/Stainless Steel U-CLAMP installed every 760mm (2.5 ft) interval of the conduit
- ☐ 2. REC METER (See Figure 1)
 - ☐ 2.1 Issued by MERALCO
 - ☐ 2.2 Location is accessible and near the Bi-Directional Meter
 - ☐ 2.3 Properly secured, not tilted, not inverted
 - ☐ 2.4 Permanently installed in a clean space, free from vibration and other physical hazard (e.g., downspout)
 - ☐ 2.5 With back portion completely covered by the pole or wall
 - ☐ 2.6 Installed at a height of 1.52m to 2m (5 ft to 6.6ft) and up to a maximum of 3m (10ft) in flood prone areas
- ☐ 3. INVERTER OUTPUT CIRCUIT (From REC METER to PANELBOARD / SERVICE EQUIPMENT) should be contained in RSC,RMC or IMC if exposed
- ☐ 4. 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
- ☐ 5. RENEWABLE ENERGY (RE) SYSTEM VISIBLE DISCONNECT DEVICE (See Figure 2)
 - ☐ 5.1 Location is accessible and outside of Customer's premises
 - ☐ 5.2 With Overcurrent (OC) Protection (Optional Only)
 - ☐ 5.3 Should be in a metal enclosure with a minimum rating of NEMA 3R, IP54 or equivalent
 - ☐ 5.4 Must have a visual indication of the contact's position and handle must be lockable in the open position
 - ☐ 5.5 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)

NOTES:

1. EQUIPMENT GROUNDING CONDUCTOR (EGC) shall be bonded to the RE System, REC meter socket, 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 dedicated branch circuit breaker at the PANELBOARD / SERVICE EQUIPMENT. (Phase conductors are not shown in the blow up detail)
4. For Meralco only: Refer to the latest Metering Application Guide (GP-DMG-900.000) for the selection and sizing of appropriate REC meter socket.
5. Only the standards for the REC Meter Installation are reflected in the diagram. All other related provisions (i.e., PEC, and existing standards for Service Entrance Installation and Grounding) shall still be complied.

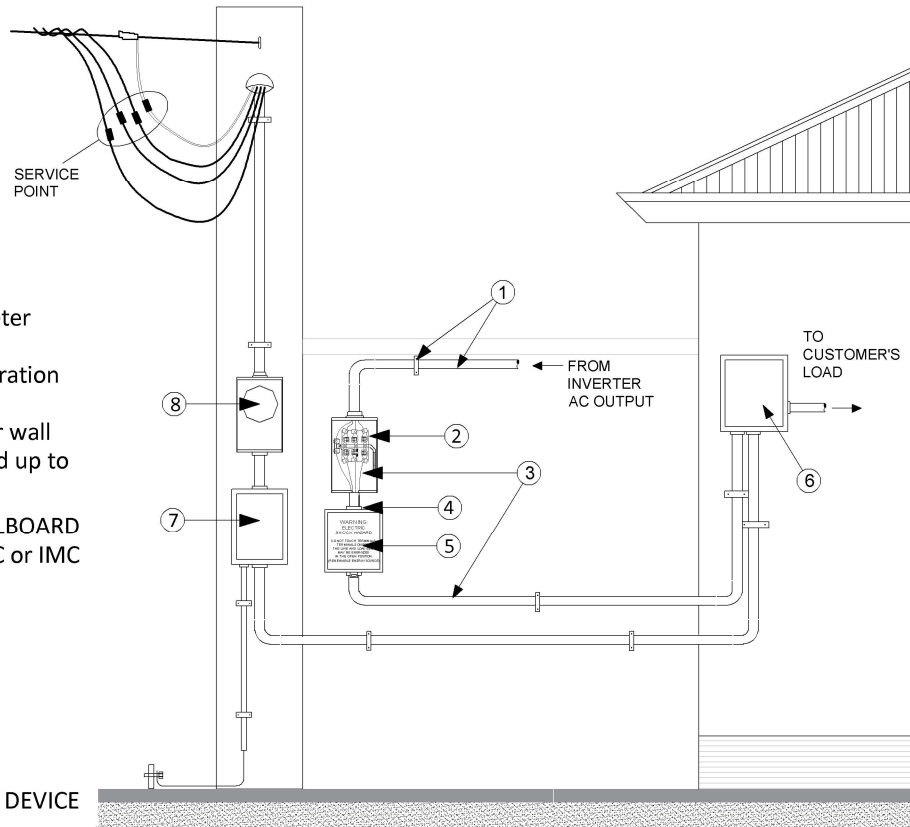


Figure 1. REC Meter

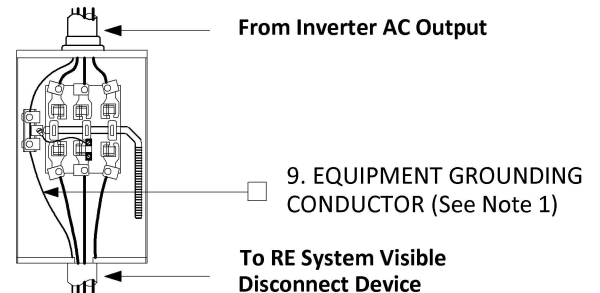


Figure 2. RE SYSTEM VISIBLE DISCONNECT DEVICE

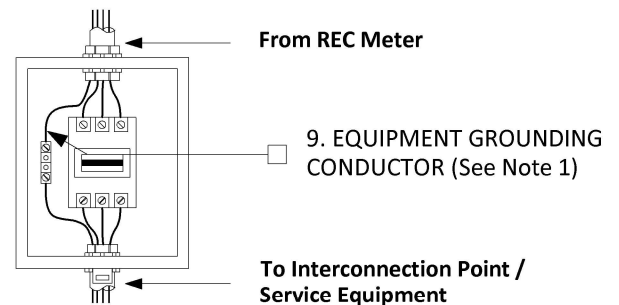


Figure 3. PANELBOARD / SERVICE EQUIPMENT

