

Engraved Placard Examples

- Lettering should be 3/8 inches high on all placards
- Placards should have a red background with white lettering
- Sizing may be adjusted to fit Meter Base and AC Disconnect Switch



3 x 4.5

- This engraved label is to be on or next to the utility meter base



2 x 4

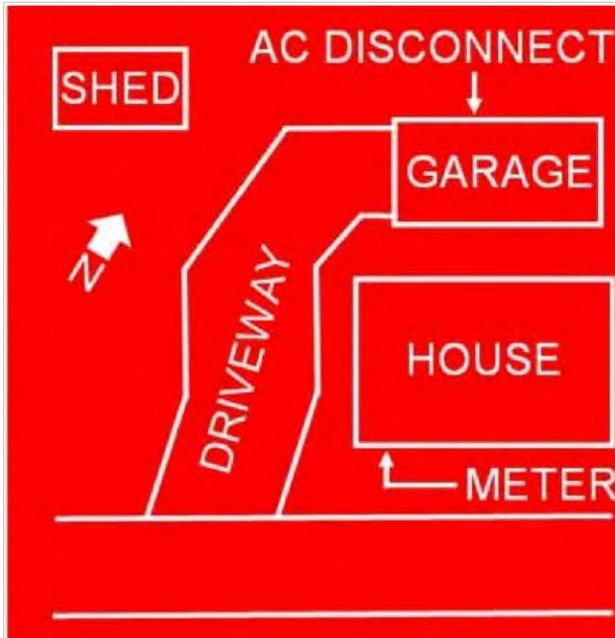
- This engraved label is to be on or next to the AC knife blade disconnect for the solar system.



1.5 x 5.5

- This engraved label is to be on the Battery Disconnect. It can say battery disconnect or manual disconnect for battery. The manual disconnect label above can be combine with the battery disconnect if the systems share one disconnect (DC connected through inverter)

IF a director placard is required:

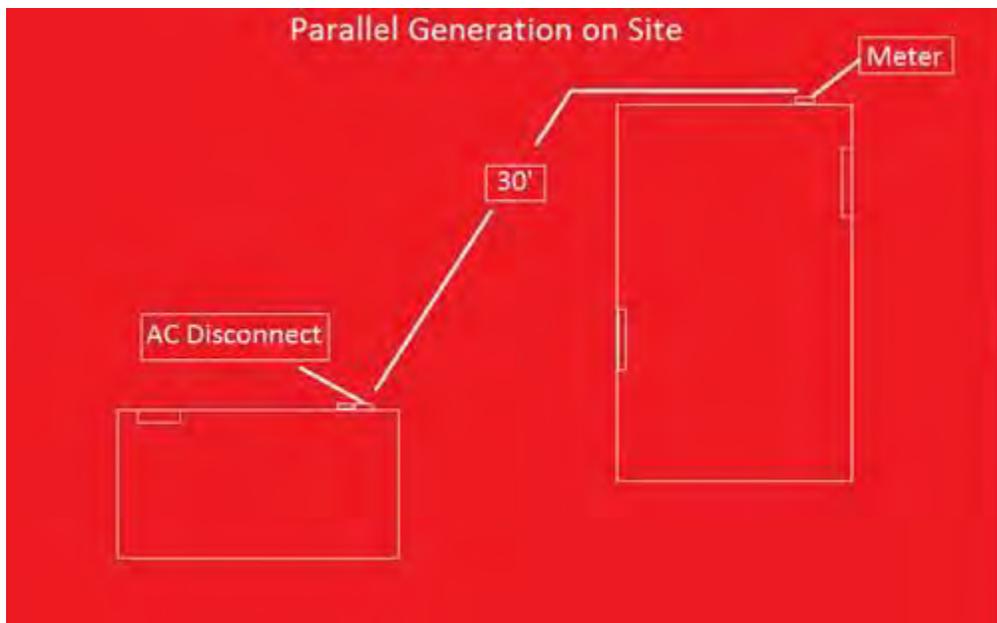


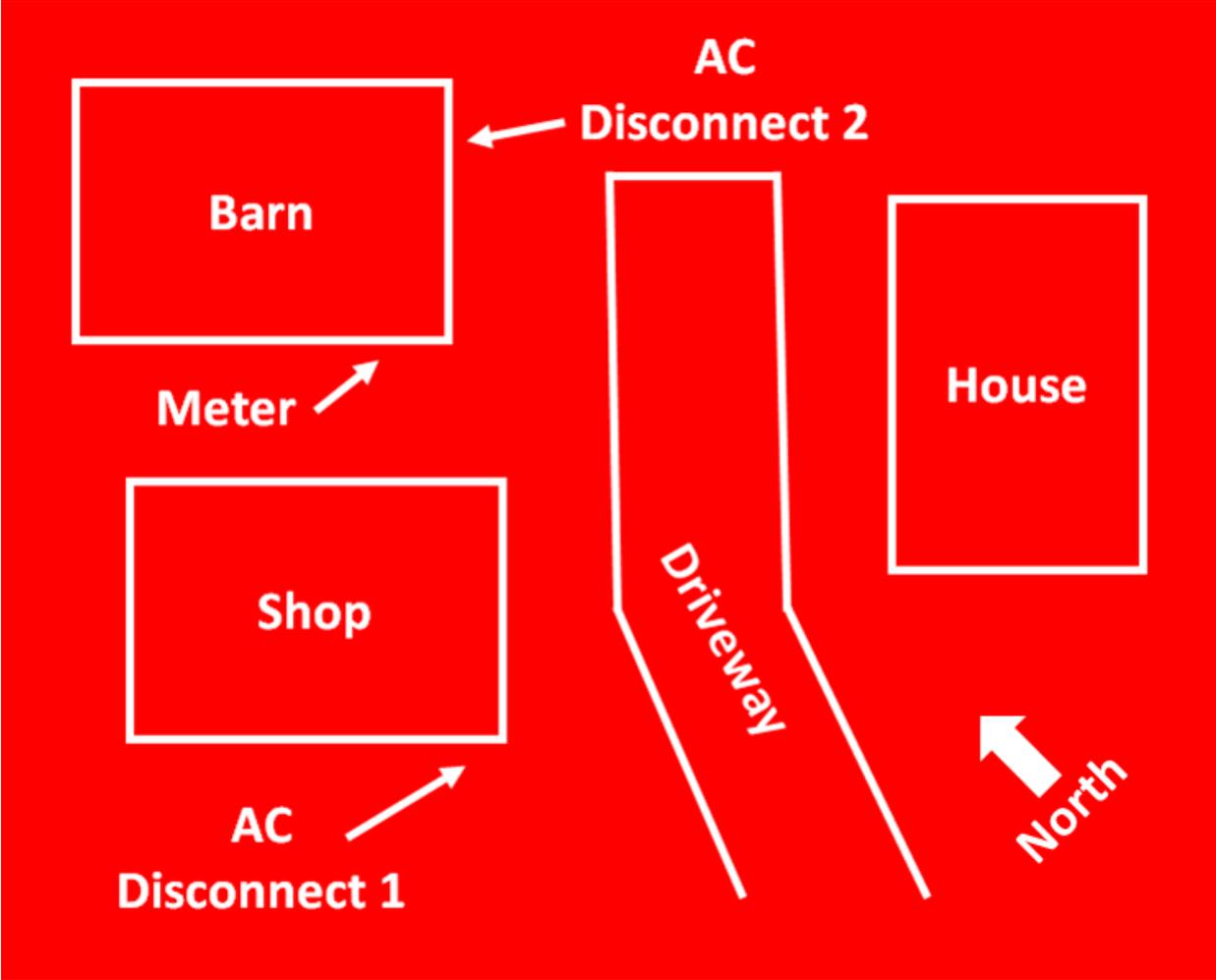
- Lettering should be at least 9mm tall (1/4 inch) tall, comparable to 25pt Arial font

- 5x5 inches, this size is for example only – use an overall size that promotes readability

5x5

Here is a very simple example. It should be sized to fit but still be readable.





**SOLAR METER
PARALLEL
GENERATION ON
SITE**



**MANUAL
DISCONNECT
FOR PARALLEL
GENERATION**

DC Coupled: The solar and battery share the same inverter **ALWAYS** one knife blade type AC disconnect for both. Labeled with both the ac disconnect engraved label and the battery disconnect engraved label.



This is an example of using an E-stop button (or other switch) that can shut off the battery system.

This replaces the AC disconnect requirement as it shuts the battery off by opening a DC circuit (thus shutting off the battery)

The disconnect switch for the battery must be lockable, accessible, clearly indicate an open or closed position, and be located within "x"* feet from the meter.

* Utah requires 10 feet. Idaho and Wyoming require 3 feet.

Along with this switch, PacifiCorp will require a placard that has the same requirements as any disconnect switch, along with the following additions:

- ***The placard must state the location of the battery (in the garage, in the utility room in the basement, etc.)***

- ***The placard must state how to determine the battery has been shut down-either by a blinking LED, a lack of illumination on the halo (Sonnen batteries), etc.***

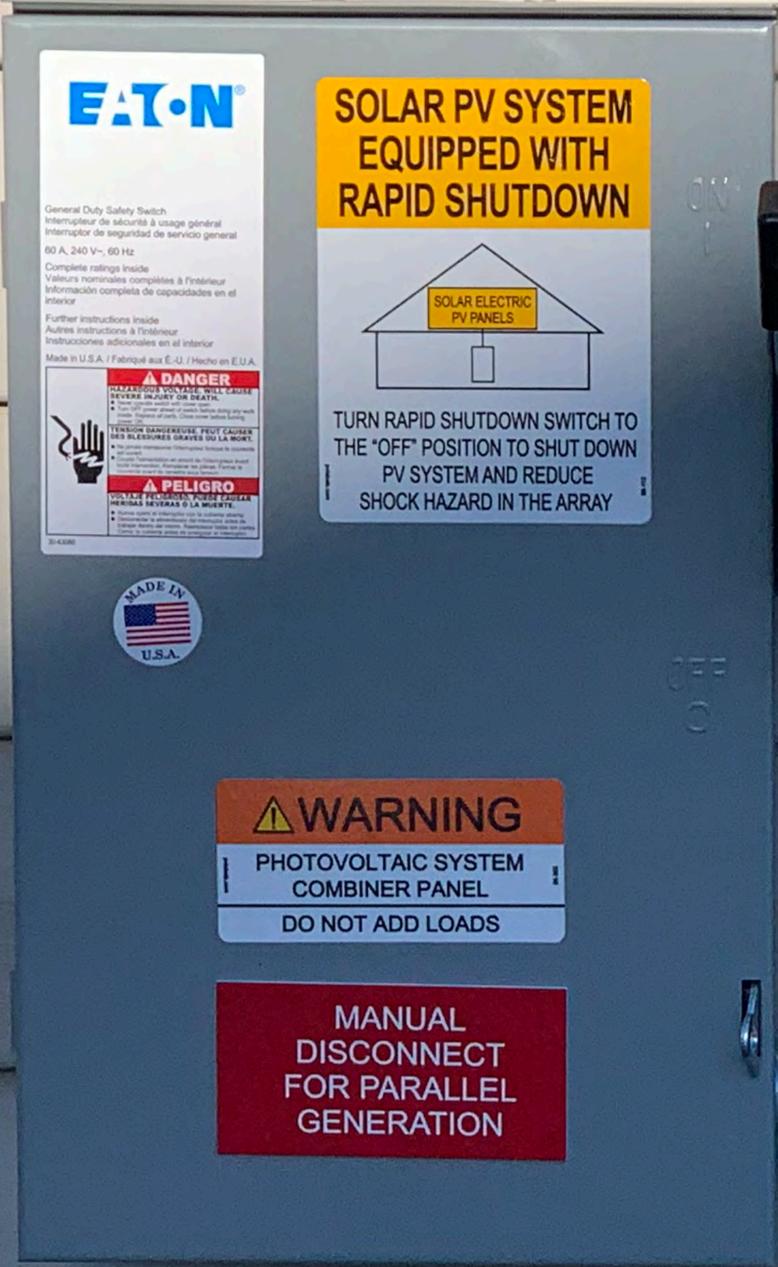
These two notes will help the field personnel know where to go to find the battery and what to look for if they want to get the visual confirmation that the battery has been turned off after the switch has been locked open.



Battery E-Stop examples. Plus the extra required placard. A padlock must fit through the locking mechanism.



AC Coupled: Batteries need their own knife blade type AC Disconnect, and the solar ONLY needs an AC disconnect if the system is over the amount of kW that requires a disconnect in your state. Both need the engraved label.



EATON

General Duty Safety Switch
Interrupteur de sécurité à usage général
Interruptor de seguridad de servicio general
30 A, 240 V~, 60 Hz

Complete ratings inside
Valeurs nominales complètes à l'intérieur
Información completa de capacidades en el interior

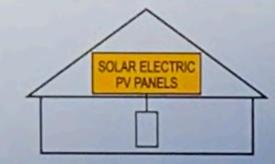
Further instructions inside
Autres instructions à l'intérieur
Instrucciones adicionales en el interior

Made in U.S.A. / Fabriqué aux É.-U. / Hecho en E.U.A.

⚠ DANGER
HAZARDOUS VOLTAGE WILL CAUSE SEVERE INJURY OR DEATH.
TENSION DANGEREUSE PEUT CAUSER DES BLESSURES GRAVES OU LA MORT.

⚠ PELIGRO
VOLTAJE PELIGROSO PUEDE CAUSAR HERIDAS SEVERAS O LA MUERTE.

SOLAR PV SYSTEM EQUIPPED WITH RAPID SHUTDOWN



SOLAR ELECTRIC PV PANELS

TURN RAPID SHUTDOWN SWITCH TO THE "OFF" POSITION TO SHUT DOWN PV SYSTEM AND REDUCE SHOCK HAZARD IN THE ARRAY

MADE IN U.S.A.

⚠ WARNING
PHOTOVOLTAIC SYSTEM COMBINER PANEL
DO NOT ADD LOADS

MANUAL DISCONNECT FOR PARALLEL GENERATION



EATON

MADE IN U.S.A.

General Duty Safety Switch
Interrupteur de sécurité à usage général
Interruptor de seguridad de servicio general
30 A, 240 V~, 60 Hz

Complete ratings inside
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Made in U.S.A. / Fabriqué aux É.-U. / Hecho en E.U.A.

⚠ DANGER
HAZARDOUS VOLTAGE WILL CAUSE SEVERE INJURY OR DEATH.
TENSION DANGEREUSE PEUT CAUSER DES BLESSURES GRAVES OU LA MORT.

⚠ PELIGRO
VOLTAJE PELIGROSO PUEDE CAUSAR HERIDAS SEVERAS O LA MUERTE.

PHOTOVOLTAIC SOLAR AC DISCONNECT

BATTERY DISCONNECT



EATON

MADE IN U.S.A.

General Duty Safety Switch
Interrupteur de sécurité à usage général
Interruptor de seguridad de servicio general
30 A, 240 V~, 60 Hz

Complete ratings inside
Valeurs nominales complètes à l'intérieur
Información completa de capacidades en el interior

Further instructions inside
Autres instructions à l'intérieur
Instrucciones adicionales en el interior

Made in U.S.A. / Fabriqué aux É.-U. / Hecho en E.U.A.

⚠ DANGER
HAZARDOUS VOLTAGE WILL CAUSE SEVERE INJURY OR DEATH.
TENSION DANGEREUSE PEUT CAUSER DES BLESSURES GRAVES OU LA MORT.

⚠ PELIGRO
VOLTAJE PELIGROSO PUEDE CAUSAR HERIDAS SEVERAS O LA MUERTE.

AC DISCONNECT

BATTERY DISCONNECT

DANGER / PELIGRO
HAZARD OF ELECTRICAL SHOCK OR BURN
SERVICE BY UTILITY AUTHORIZED PERSONNEL ONLY
DO NOT PAINT OVER OR REMOVE THIS LABEL
PELIGRO DE DESCARGA ELECTRICA O QUEMADURA
SOLAMENTE PERSONAS AUTORIZADAS DE LA COMPAÑIA
ELECTRICA PUEDEN MANTENARLO
NO PINTÉ ENCIMA NI REMUEVA ESTA ETIQUETA

**PHOTOVOLTAIC SYSTEM
AC DISCONNECT**

RATED AC OUTPUT CURRENT **60** A
NOMINAL OPERATING AC VOLTAGE **240** V

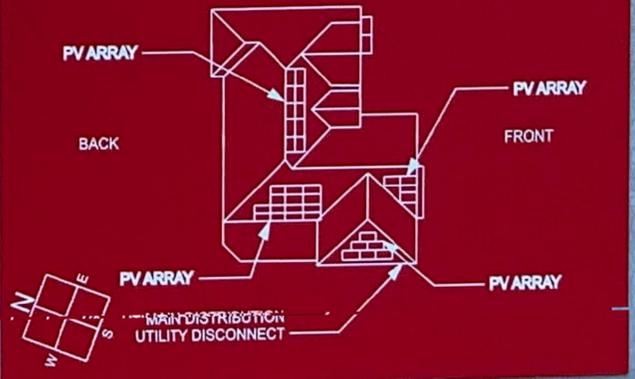
**SOLAR METER
PARALLEL
GENERATION ON
SITE**



STATE OF IDAHO
Division of Building Safety
Permit No. **C903586**
Inspected By **GD**
Date **3/17/05** Rough
Inspected By **GD**
Date **8/23/05** Final
DO NOT REMOVE

STATE OF IDAHO
Division of Building Safety
Electrical Bureau
Permit No. **C903587**
Inspected By **GD**
Date **3/19/05** Temp
Date **Final**
DO NOT REMOVE

!CAUTION!
POWER TO THIS BUILDING IS ALSO SUPPLIED
FROM ROOF MOUNTED SOLAR ARRAYS WITH
SAFETY DISCONNECTS AS SHOWN:



CITY OF Ammon
Address **2550 Paradise**
Approved by **AD**
Comments **Solar**

MILBANK
TYPE B REINFORCING



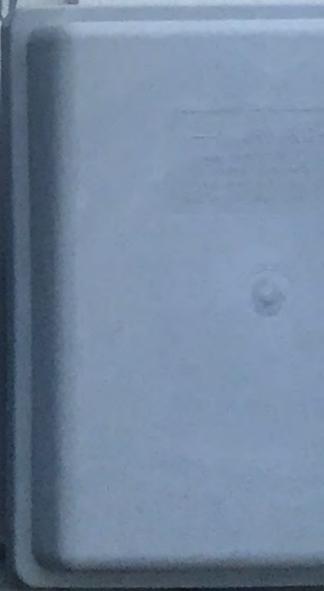
**PARALLEL
GENERATION
ON SITE**

EAT·N

⚠ DANGER
WARNING: High Voltage
Hazardous to life and limb.
Avoid contact with energized parts.
See the back of the box.
Consult the manual for safety instructions.
Always use proper safety procedures.
Do not touch the energized parts.
Always use proper safety procedures.
Do not touch the energized parts.
Always use proper safety procedures.
Do not touch the energized parts.



**MANUAL
DISCONNECT
FOR PARALLEL
GENERATION**

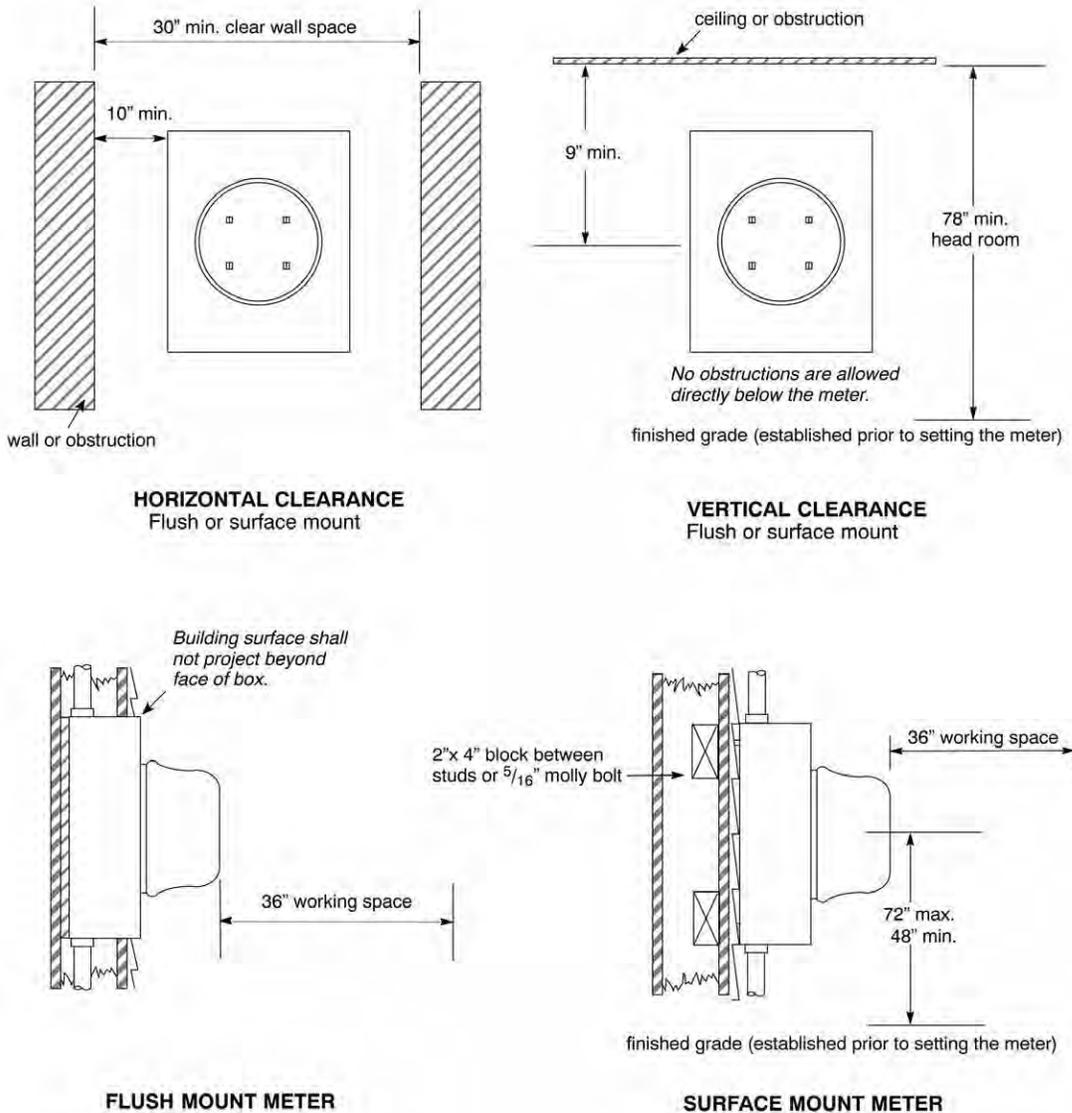


4.1.4 Access

If a meter is inaccessible (as determined by the Power Company), for example, by installing a deck, fence, or enclosure, the customer shall, at their expense, either modify the area to provide safe, unobstructed access to the meter, or move the meter socket to a location acceptable to the Power Company.

Devices mounted below the meter are not acceptable.

Figure 2—Meter Socket Clearance Requirements



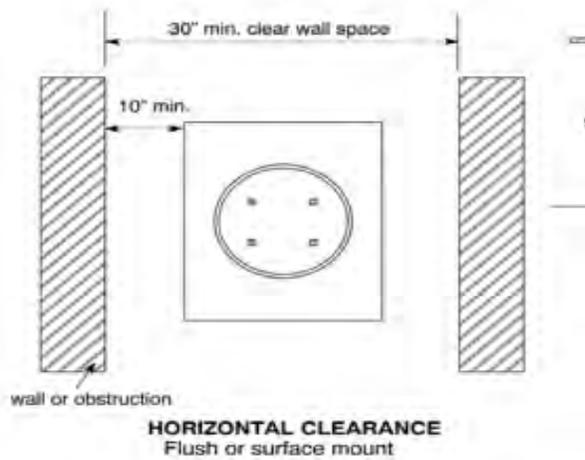
We require min. of 10" from the edge of the meter base to any obstruction – see ESR section 4

We must have clear working area around the meter, any equipment mounted in this area is not acceptable.

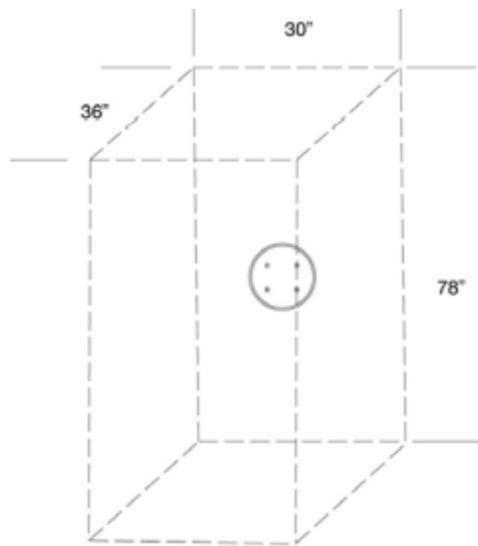
Basically, any equipment must be a minimum of 10" away from either side of the meter base and nothing can be under it .

Meter sockets in Figure 3 and Figure 4 are meter sockets are defined in other section

Figure 3—Meter Socket



This ESR working clearance box – see how it shows clear space in that area



WORKING SPACE IN FRONT OF METER

The next page has a picture of a perfect set up of the meter base and disconnects.

24 100 200
kWh

PARALLEL GENERATION ON SITE

WARNING!
PROTECTIVE FAULTS
MAY OCCUR
DURING
OPERATION
DO NOT ADD LOADS
TO THIS SYSTEM
UNLESS
THE
INVERTER
IS
OFF

SOLAR PV SYSTEM EQUIPPED WITH RAPID SHUTDOWN

1000V

ON
SIEMENS
OFF

MANUAL DISCONNECT FOR PARALLEL GENERATION

WARNING!
PROTECTIVE FAULTS
MAY OCCUR
DURING
OPERATION
DO NOT ADD LOADS
TO THIS SYSTEM
UNLESS
THE
INVERTER
IS
OFF

WARNING!
PROTECTIVE FAULTS
MAY OCCUR
DURING
OPERATION
DO NOT ADD LOADS
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UNLESS
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