

ConnectDER, Solar Meter Socket Adapter
Usage Requirements, Connections to PSE&G

Function of Device:

Enables Solar system to be connected after the meter and before an existing Electrical Panel Board at the premise. Includes a 2-pole circuit breaker to interrupt over current and support isolation of solar system for maintenance.

Required Adapter Features:

- Adapter shall connect solar system on the customer side of the PSE&G meter.
- PV/DER Circuit Breaker shall be able to interrupt fault currents up to 22,000 amps.
- PV/DER Circuit Breaker trip current rating may be 40, 60 or 80 amps.
- Adapters installed in 5 jaw sockets shall have a 5th terminal installed on rear of adapter.

Adapter Catalog numbers

Part Number	Features	Installation Comment
C-B-5-22-40	5 Jaw, 40 a breaker	Remove 5 th terminal if socket has only 4 Jaws
C-B-5-22-60	5 Jaw, 60 a breaker	Remove 5 th terminal if socket has only 4 Jaws
C-B-5-22-80	5 Jaw, 80 a breaker	Remove 5 th terminal if socket has only 4 Jaws
C-B-4-22-40	4 Jaw, 40 a breaker	4 Jaw may only be used in 4 jaw sockets
C-B-4-22-60	4 Jaw, 60 a breaker	4 Jaw may only be used in 4 jaw sockets
C-B-4-22-80	4 Jaw, 80 a breaker	4 Jaw may only be used in 4 jaw sockets

Installation Limitations unique to this ConnectDER, Solar adapter

- Adapter may only be used in meters socket blocks rated from 100 amps thru 200 amps and may not be used with sockets rated 60 amps or 320 amps.
- Meter socket must have space between socket block and the socket box to accommodate 4 AWG stranded conductor for neutral connection. Socket shall be ringless construction.
- Adapter may be used on services described as: 120/240 volt, 3 wire, single phase service; or 120/208 volt, 3 wire, network service.
- Adapter may not be used on Conventional Underground services (120/208 volt, network feed from multiple transformers with network protectors). Concern of available fault current > 22 kA.
- When meter sockets have 5 jaws, socket adapter must also have 5 jaws / terminal blades.
- Adapter relocates the mounting position of meter. A clear space of at least 44 inches between the property line – as defined by the municipality – and the front of all meter sockets.
- 1" liquid-tight flexible conduit for power connection to Solar equipment, is attached to either side of the top of the adapter. It may not block access to breaker compartments in meter socket or second meter position in meter socket.

General Requirements for installation of Meter Socket Adapters

- Oxide-inhibiting joint compound shall not be applied to jaws of sockets or PSE&G meter terminals.
- Socket jaw tension must meet requirements to support heat transfer away from the meter and socket adapter.
- Service conductor insulation must be in place without evidence of failure.
- Only one adapter may be installed behind a meter.
- Meter Mounting Equipment shall be for a single meter position or two meter positions.
- Meter socket must be firmly attached to its mounting.
- Circuit Breakers, when present, shall have an interrupting rating consistent with the maximum design short circuit duty rating at the point of connection in compliance with NEC.
- Adapters used on 120/208 volt, 3-wire services shall have a 5th terminal and 5th jaw to supply neutral voltage to the meter.
- Meter socket adapters may not be used where customer has opted-out from having an Advanced Metering Infrastructure (AMI) Meter installed.