

# INTERCONNECTED POWER SOURCES



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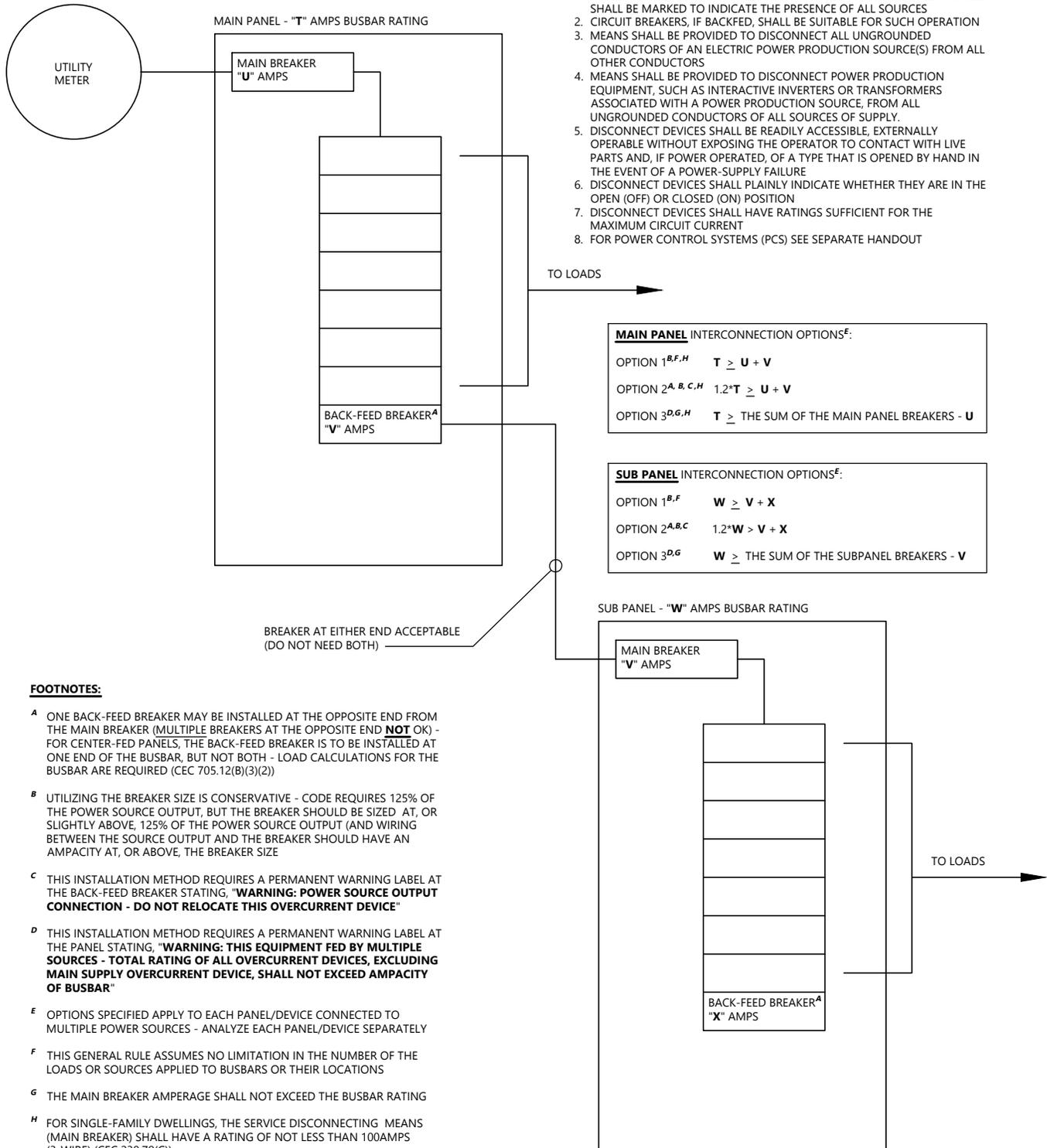
THIS DRAWING DEPICTS MINIMUM CODE REQUIREMENTS PER THE 2022 CALIFORNIA CODE CYCLE - INFORMATION IS FOR REFERENCE ONLY AND IS NOT A SUBSTITUTE FOR ACCURATE DRAWINGS PREPARED FOR EACH PROPOSED CONSTRUCTION PROJECT

## LOAD SIDE INTERCONNECTION

CALIFORNIA ELECTRICAL CODE (CEC) 705.12

### GENERAL NOTES:

- EQUIPMENT CONTAINING OVERCURRENT DEVICES IN CIRCUITS SUPPLYING POWER TO A BUSBAR OR CONDUCTOR SUPPLIED FROM MULTIPLE SOURCES SHALL BE MARKED TO INDICATE THE PRESENCE OF ALL SOURCES
- CIRCUIT BREAKERS, IF BACKFED, SHALL BE SUITABLE FOR SUCH OPERATION
- MEANS SHALL BE PROVIDED TO DISCONNECT ALL UNGROUNDED CONDUCTORS OF AN ELECTRIC POWER PRODUCTION SOURCE(S) FROM ALL OTHER CONDUCTORS
- MEANS SHALL BE PROVIDED TO DISCONNECT POWER PRODUCTION EQUIPMENT, SUCH AS INTERACTIVE INVERTERS OR TRANSFORMERS ASSOCIATED WITH A POWER PRODUCTION SOURCE, FROM ALL UNGROUNDED CONDUCTORS OF ALL SOURCES OF SUPPLY.
- DISCONNECT DEVICES SHALL BE READILY ACCESSIBLE, EXTERNALLY OPERABLE WITHOUT EXPOSING THE OPERATOR TO CONTACT WITH LIVE PARTS AND, IF POWER OPERATED, OF A TYPE THAT IS OPENED BY HAND IN THE EVENT OF A POWER-SUPPLY FAILURE
- DISCONNECT DEVICES SHALL PLAINLY INDICATE WHETHER THEY ARE IN THE OPEN (OFF) OR CLOSED (ON) POSITION
- DISCONNECT DEVICES SHALL HAVE RATINGS SUFFICIENT FOR THE MAXIMUM CIRCUIT CURRENT
- FOR POWER CONTROL SYSTEMS (PCS) SEE SEPARATE HANDOUT



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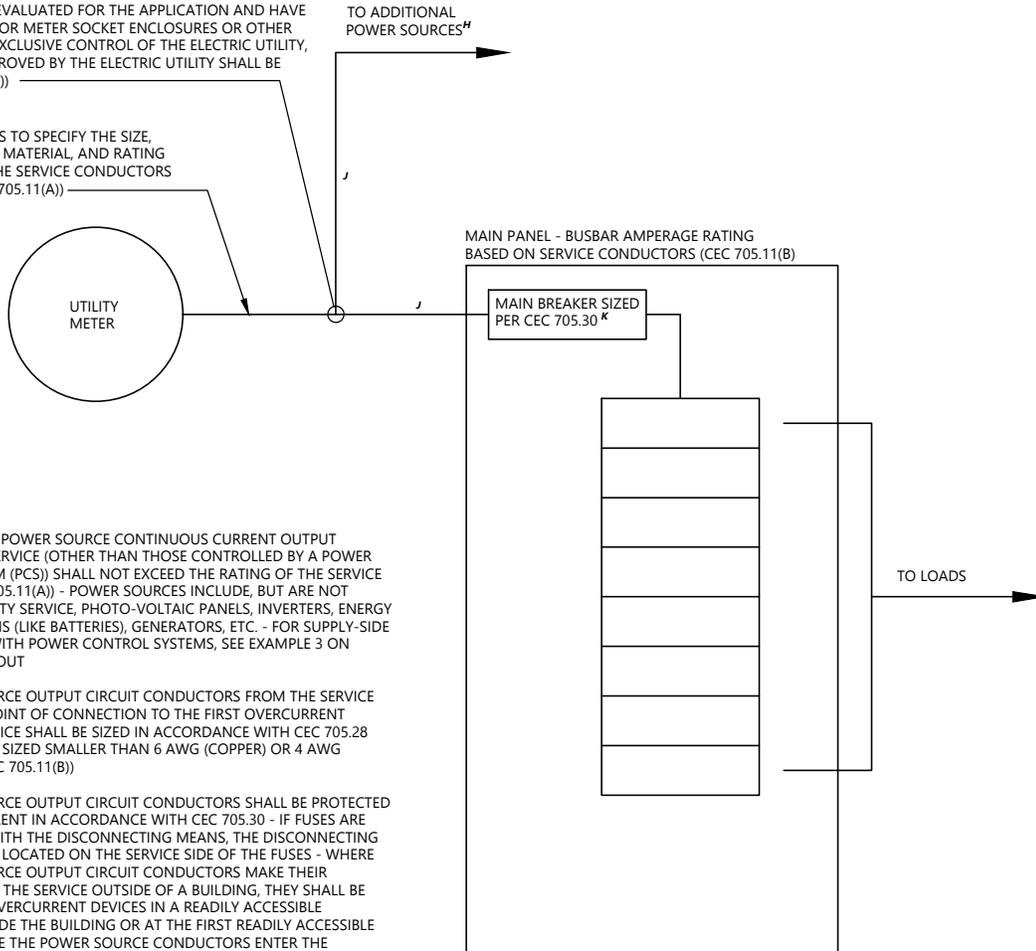
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## SUPPLY SIDE INTERCONNECTION

(REQUIRES SPECIAL APPROVAL FROM MAIN SOURCE UTILITY (PG&E)  
 CEC 705.11

CONNECTION METHOD TO BE LISTED AS DESCRIBED IN CEC 110.14 AND COMPLY WITH ALL ENCLOSURE FILL REQUIREMENTS - ANY MODIFICATIONS TO EXISTING EQUIPMENT SHALL BE MADE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS OR THE MODIFICATION MUST BE EVALUATED FOR THE APPLICATION AND HAVE A FIELD LABEL APPLIED - FOR METER SOCKET ENCLOSURES OR OTHER EQUIPMENT UNDER THE EXCLUSIVE CONTROL OF THE ELECTRIC UTILITY, ONLY CONNECTIONS APPROVED BY THE ELECTRIC UTILITY SHALL BE PERMITTED (CEC 705.11(D))

PLANS TO SPECIFY THE SIZE, TYPE, MATERIAL, AND RATING OF THE SERVICE CONDUCTORS (CEC 705.11(A))



### FOOTNOTES:

- <sup>H</sup> THE SUM OF THE POWER SOURCE CONTINUOUS CURRENT OUTPUT RATINGS ON A SERVICE (OTHER THAN THOSE CONTROLLED BY A POWER CONTROL SYSTEM (PCS)) SHALL NOT EXCEED THE RATING OF THE SERVICE CONDUCTORS (705.11(A)) - POWER SOURCES INCLUDE, BUT ARE NOT LIMITED TO, UTILITY SERVICE, PHOTO-VOLTAIC PANELS, INVERTERS, ENERGY STORAGE SYSTEMS (LIKE BATTERIES), GENERATORS, ETC. - FOR SUPPLY-SIDE CONNECTIONS WITH POWER CONTROL SYSTEMS, SEE EXAMPLE 3 ON SEPARATE HANDOUT
- <sup>J</sup> THE POWER SOURCE OUTPUT CIRCUIT CONDUCTORS FROM THE SERVICE CONDUCTORS POINT OF CONNECTION TO THE FIRST OVERCURRENT PROTECTION DEVICE SHALL BE SIZED IN ACCORDANCE WITH CEC 705.28 AND IN NO CASE SIZED SMALLER THAN 6 AWG (COPPER) OR 4 AWG (ALUMINUM) (CEC 705.11(B))
- <sup>K</sup> THE POWER SOURCE OUTPUT CIRCUIT CONDUCTORS SHALL BE PROTECTED FROM OVERCURRENT IN ACCORDANCE WITH CEC 705.30 - IF FUSES ARE NOT INTEGRAL WITH THE DISCONNECTING MEANS, THE DISCONNECTING MEANS SHALL BE LOCATED ON THE SERVICE SIDE OF THE FUSES - WHERE THE POWER SOURCE OUTPUT CIRCUIT CONDUCTORS MAKE THEIR CONNECTION TO THE SERVICE OUTSIDE OF A BUILDING, THEY SHALL BE PROTECTED BY OVERCURRENT DEVICES IN A READILY ACCESSIBLE LOCATION OUTSIDE THE BUILDING OR AT THE FIRST READILY ACCESSIBLE LOCATION WHERE THE POWER SOURCE CONDUCTORS ENTER THE BUILDING - WHERE THE POWER SOURCE OUTPUT CIRCUIT CONDUCTORS MAKE THEIR CONNECTION TO THE SERVICE INSIDE A BUILDING, THEY SHALL BE PROTECTED BY AN OVERCURRENT DEVICE LOCATED WITHIN 10ft FROM THE POINT OF CONNECTION TO THE SERVICE