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| A. General Information | | | | | |
| 01 | Project Location (City) |  | 02 | Building Type |  |
| 03 | Climate Zone |  | 04 | Method of Compliance: |  |
| 05 | Qualifying Exceptions |  | | | |

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| **B. Design Photovoltaic Systems Information** | | | | | | | | | | |
| 01 | 02 | 03 | | 04 | 05 | 06 | 07 | 08 | 09 | 10 |
| PV Array ID or Name | Adjusted Minimum PV Size (kW) | Adjusted Value from Exception | | Module Type | CFI (Yes/No) | Azimuth (deg) | Tilt Input (Deg/Pitch) | Angle/Tilt | Inverter Efficiency (%) | Shading Requirement Compliance Path |
|  |  |  | |  |  |  |  |  |  |  |
|  |  |  | |  |  |  |  |  |  |  |
| 11 | Total DC System Size (kW) | |  | | | | | | | |

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| **C. Installed Photovoltaic Systems Information** | | | | | | | |
| 01 | 02 | 03 | | 04 | 05 | 06 | 07 |
| PV Array ID or Name | DC System Size (kW) | Module Type | | Azimuth (deg) | Tilt Input (Deg/Pitch) | Angle/Tilt | Inverter Efficiency (%) |
|  |  |  | |  |  |  |  |
|  |  |  | |  |  |  |  |
| 08 | Total DC System Size (kW) | |  | | | | |
| **If the installer certifies that the installed PV system matches or exceeds the design PV system, the building complies with the PV system requirement, otherwise it does not comply.** | | | | | | | |

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| D. Shading Requirement | |
| **Minimal Shading Criterion** | |
| No obstruction is closer than a distance D of twice the height H as specified JA11.3.1 |  |
| **PV Array Geometries Performance Input** | |
| The shading condition of the PV array must be properly input in the performance calculation and attach a copy of the design to the CF1R | |
| **The responsible person’s signature on this compliance document affirms that all applicable requirements in this table have been met.** | |

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| E. Solar Access Verification | |
| 01 | The installer shall provide documentation that demonstrates the shading condition of the actual installation of the PV module is consistent with the shading requirement in Table D. The verification must be done with by measurements from an approved solar assessment tool or other CEC approved alternative methods |
| **The responsible person’s signature on this compliance document affirms that all applicable requirements in this table have been met.** | |

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| F. System Monitoring Requirements | |
| All installed PV system must have a working web based portal and a mobile device application provide access to the following information | |
| 01 | Nominal kW rating of the PV system |
| 02 | Number of PV modules and nominal watt rating of each module |
| 03 | Hourly (or 15 min), daily, monthly and annual kWh production in numeric and graphic format |
| 04 | Running total of daily kWh production |
| 05 | Daily kW peak power production |
| 06 | Current kW production of the entire PV system |
| **The responsible person’s signature on this compliance document affirms that all applicable requirements in this table have been met.** | |

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| G. Qualifying Exception Verification | |
| 01 | The installer shall provide documentation of the roof area limitations that justify the exception. Documentation may include roof plans, aerial photos, satellite images, 3D model, or other documentation that clearly shows the available roof areas that meets the solar access requirements. |
| **The responsible person’s signature on this compliance document affirms that all applicable requirements in this table have been met.** | |

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| **H. Compliance Statement** |
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| **Documentation Author's Declaration Statement** | |
| 1. I certify that this Certificate of Compliance documentation is accurate and complete. | |
| Documentation Author Name: | Documentation Author Signature: |
| Company: | Signature Date: |
| Address: | CEA/ HERS Certification Identification (if applicable): |
| City/State/Zip: | Phone: |
| **Responsible Person's Declaration statement** | |
| I certify the following under penalty of perjury, under the laws of the State of California:The information provided on this Certificate of Compliance is true and correct.I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).  1. That the energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations. 2. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application. 3. I will ensure that a registered copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a registered copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy. | |
| Responsible Designer Name: | Responsible Designer Signature: |
| Company: | Date Signed: |
| Address: | License: |
| City/State/Zip: | Phone: |

**CF2R-PVB-01-E User Instructions**

1. **General Information**

01 For information only and requires no user input.

02 For information only and requires no user input.

03 User choose from list of qualifying exceptions to the PV requirements. If no exception applicable, choose N/A

04 For information only and requires no user input.

05 For information only and requires no user input.

1. **Design Photovoltaic Systems Information**

This table reports the PV system features that were specified on the registered CF1R compliance document for this project. For information only and requires no user input.

1. **Installed Photovoltaic Systems Information**

01 PV Array ID or Name - Reference information from CF1R.

02 DC System Size – Enter the kWdc of the array. Must be equal or greater the design system size for this array.

03 Module Type – If the array meets the California Flexible Installation criteria, then enter the Module Type. Different module types are Standard and Premium.

04 Azimuth - If the array meets the California Flexible Installation criteria, then enter the azimuth of the array in degrees from North.

05 Tilt Input - If the array meets the California Flexible Installation criteria, then enter the Tilt input. Different Tilt input are Degree and Pitch.

06 Tilt Input - If the array meets the California Flexible Installation criteria, then enter the value of the angle or tilt.

07 Inverter Efficiency – Enter the inverter efficiency in percent. Must be equal or greater the design inverter efficieny for this array.

1. **Shading Requirement**

Installer must ensure all the requirements on this table are met.

1. **Solar Access Verification**

Installer must ensure all the requirements on this table are met.

1. **System Monitoring Requirements**

Installer must ensure all the requirements on this table are met.

**G. Qualifying Exception Verification**

Installer must ensure all the requirements on this table are met.

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| A. General Information | | | | | |
| 01 | Project Location (City) | <<Auto filled field text: Reference text from CF1R>> | 02 | Building Type | <<Auto filled field text: Reference text from CF1R >> |
| 03 | Climate Zone | <<Auto filled field text: Reference text from CF1R >> | 04 | Method of Compliance: | <<Reference CF1R document: allowed values: Performance or Prescriptive>> |
| 05 | Qualifying Exceptions | << user pick from list:  No PV – limited solar access (Trigger CF2R-SRA-01)  CZ15 reduced PV size  2 habitable stories  3 habitable stories  Plan approved before 1/1/20  Battery storage (Trigger CF2R-PVB-02)  NA >> | | | |

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| **B. Design Photovoltaic Systems Information**  <<if A05 = “No PV – limited solar access”, then display the "section does not apply" message; else display this entire table >> | | | | | | | | | | |
| 01 | 02 | | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 |
| PV Array ID or Name | Adjusted Minimum PV Size (kW) | | Adjusted Value from Exception | Module Type | CFI (Yes/No) | Azimuth (deg) | Tilt Input (Deg/Pitch) | Angle/Tilt | Inverter Efficiency (%) | Shading Requirement Compliance Path |
| <<auto filled text: referenced from CF1R>> | <<auto filled text: referenced from CF1R>> | | <<if performance, then value = B02;  Elseif prescriptive and A05 = NA, then autofill from B02;  elseif A05 = “Battery storage”, then value = ((O04 from CF1R\*0.75) + O05 from CF1R);  Else user input: decimalnonnegative >> | <<From CF1R-PRF-01;  Else = NA>> | <<From CF1R-PRF-01;  Else = NA>> | <<If performance and CFI = Yes, then 150 ≤B06≤ 270;  if prescriptive,  90 ≤B06≤ 300;  else, 0 ≤B06≤ 359>> | <<From CF1R-PRF-01;  else user pick from list:   * Deg * Pitch>> | <<If prescriptive and B07=Deg, then user input and  0 ≤B08≤ 10;  if prescriptive and B07=Pitch, then user input  0 ≤B08≤ 2;  if performance and CFI = Yes, then value from CF1R PRF and B08 ≤ 7;  if performance and CFI = No, then value from CF1R-PRF>> | <<From CF1R-PRF-01; Else = NA>> | <<From CF1R-PRF-01;  Else = “Minimum Shading Criterion”>> |
|  |  | |  |  |  |  |  |  |  |  |
| 11 | | Total DC System Size (kW) | | | <<Sum of B03>> | | | | | |

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| **C. Installed Photovoltaic Systems Information**  <<if A05 = “No PV – limited solar access”, then display the "section does not apply" message; else display this entire table >> | | | | | | |
| 01 | 02 | 03 | 04 | 05 | 06 | 07 |
| PV Array ID or Name | DC System Size (kW) | Module Type | Azimuth (deg) | Tilt Input (Deg/Pitch) | Angle/Tilt | Inverter Efficiency (%) |
| <<auto filled text: referenced from CF1R >> | <<If B05=No, then autofill from B03 but allow user to override only if ≥ B03;  Else user input >> | <<If B05=No, then autofill from B04;  Else user pick from list:  Standard,  Premium >> | <<If B05=No, then autofill from B06;  Else user input (value must be > 0 and < 359>> | <<If B05=No, then autofill from B07;  Else user pick from list:   * Deg * Pitch>> | <<If B05=No, then autofill from B08; Else user input (value must be > 0 and < 10)>> | <<reference value from B09 as default, but allow user to override only if ≥ B09;  else user input >> |
|  |  |  |  |  |  |  |
| 08 | Total DC System Size (kW) | <<Sum of C02>> | | | | |

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| D. Shading Requirement <<if A05 = “No PV – limited solar access”, then display the "section does not apply" message; else display this entire table >> << Shading Requirement Compliance Path B10 = “Minimal Shading Criterion”, then display row “Minimal Shading Criterion” below; Else display row “PV Array Geometries Performance Input”>> | |
| **Minimal Shading Criterion** | |
| No obstruction is closer than a distance D of twice the height H as specified JA11.3.1 |  |
| **PV Array Geometries Performance Input** | |
| The shading condition of the PV array must be properly input in the performance calculation and attach a copy of the design to the CF1R | |
| **The responsible person’s signature on this compliance document affirms that all applicable requirements in this table have been met.** | |

|  |  |
| --- | --- |
| E. Solar Access Verification <<if A05 = “No PV – limited solar access”, then display the "section does not apply" message; else display this entire table >> | |
| 01 | The installer shall provide documentation that demonstrates the shading condition of the actual installation of the PV module is consistent with the shading requirement in Table D. The verification must be done with by measurements from an approved solar assessment tool or other CEC approved alternative methods |
| **The responsible person’s signature on this compliance document affirms that all applicable requirements in this table have been met.** | |

|  |  |
| --- | --- |
| F. System Monitoring Requirements <<if A05 = “No PV – limited solar access”, then display the "section does not apply" message; else display this entire table >> | |
| All installed PV system must have a working web based portal and a mobile device application provide access to the following information: | |
| 01 | Nominal kW rating of the PV system |
| 02 | Number of PV modules and nominal watt rating of each module |
| 03 | Hourly (or 15 min), daily, monthly and annual kWh production in numeric and graphic format |
| 04 | Running total of daily kWh production |
| 05 | Daily kW peak power production |
| 06 | Current kW production of the entire PV system |
| **The responsible person’s signature on this compliance document affirms that all applicable requirements in this table have been met.** | |

|  |  |
| --- | --- |
| G. Qualifying Exception Verification <<If A05 “Qualifying Exceptions” = “NA”, then display the "section does not apply" message; else display this entire table >> | |
| 01 | The installer shall provide documentation of the roof area limitations that justify the exception. Documentation may include roof plans, aerial photos, satellite images, 3D model, or other documentation that clearly shows the available roof areas that meets the solar access requirements. |
| **The responsible person’s signature on this compliance document affirms that all applicable requirements in this table have been met.** | |

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| **H. Compliance Statement** |
| **<<calculated field: if C08 ≥ B11 or A05 = “No PV – limited solar access”, then display result: Pass - dwelling complies with the Photovoltaic Systems requirements; else display result: Fail - dwelling does not comply with the Photovoltaic System requirements>>** |

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| --- | --- |
| **Documentation Author's Declaration Statement** | |
| 1. I certify that this Certificate of Compliance documentation is accurate and complete. | |
| Documentation Author Name: | Documentation Author Signature: |
| Company: | Signature Date: |
| Address: | CEA/ HERS Certification Identification (if applicable): |
| City/State/Zip: | Phone: |
| **Responsible Person's Declaration statement** | |
| I certify the following under penalty of perjury, under the laws of the State of California:The information provided on this Certificate of Compliance is true and correct.I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).  1. That the energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations. 2. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application. 3. I will ensure that a registered copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a registered copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy. | |
| Responsible Designer Name: | Responsible Designer Signature: |
| Company: | Date Signed: |
| Address: | License: |
| City/State/Zip: | Phone: |