

NEW PHOTOVOLTAIC ROOF MOUNTED SYSTEM - 16.000 KW DC/1441.420 KW CEC AC
560 HESTER CREEK RD, LOS GATOS, CA 95033

NEW PV SYSTEM SPECIFICATIONS
SYSTEM SIZE: DC SIZE: 16.000 KW DC-(STC)
CEC AC SIZE: 1441.420 KW AC
MODULE: (40) Q CELLS Q.PEAK DUO BLK ML-G10 400W
INVERTER: (40) ENPHASE IQ8A-72-2-US [240V] [S11-SB]

APPLICABLE CODES
ALL WORK SHALL CONFORM TO THE FOLLOWING CODES:
2022 CALIFORNIA BUILDING CODE
2022 CALIFORNIA RESIDENTIAL CODE
2022 CALIFORNIA ENERGY CODE
2022 CALIFORNIA HISTORICAL BUILDING CODE
2022 CALIFORNIA EXISTING BUILDING CODE
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE
2022 CALIFORNIA FIRE CODE
2022 CALIFORNIA ELECTRICAL CODE
AS ADOPTED BY COUNTY OF SANTA CRUZ

DESIGN CRITERIA
ROOF SURFACE TYPE: COMPOSITE SHINGLE
ROOF FRAMING: 2"X6" TRUSS @ 24" OC
BUILDING STORY: TWO STORY
GROUND SNOW LOAD: 0 PSF
WIND SPEED: 91 MPH
WIND EXPOSURE: C
RISK CATEGORY: II

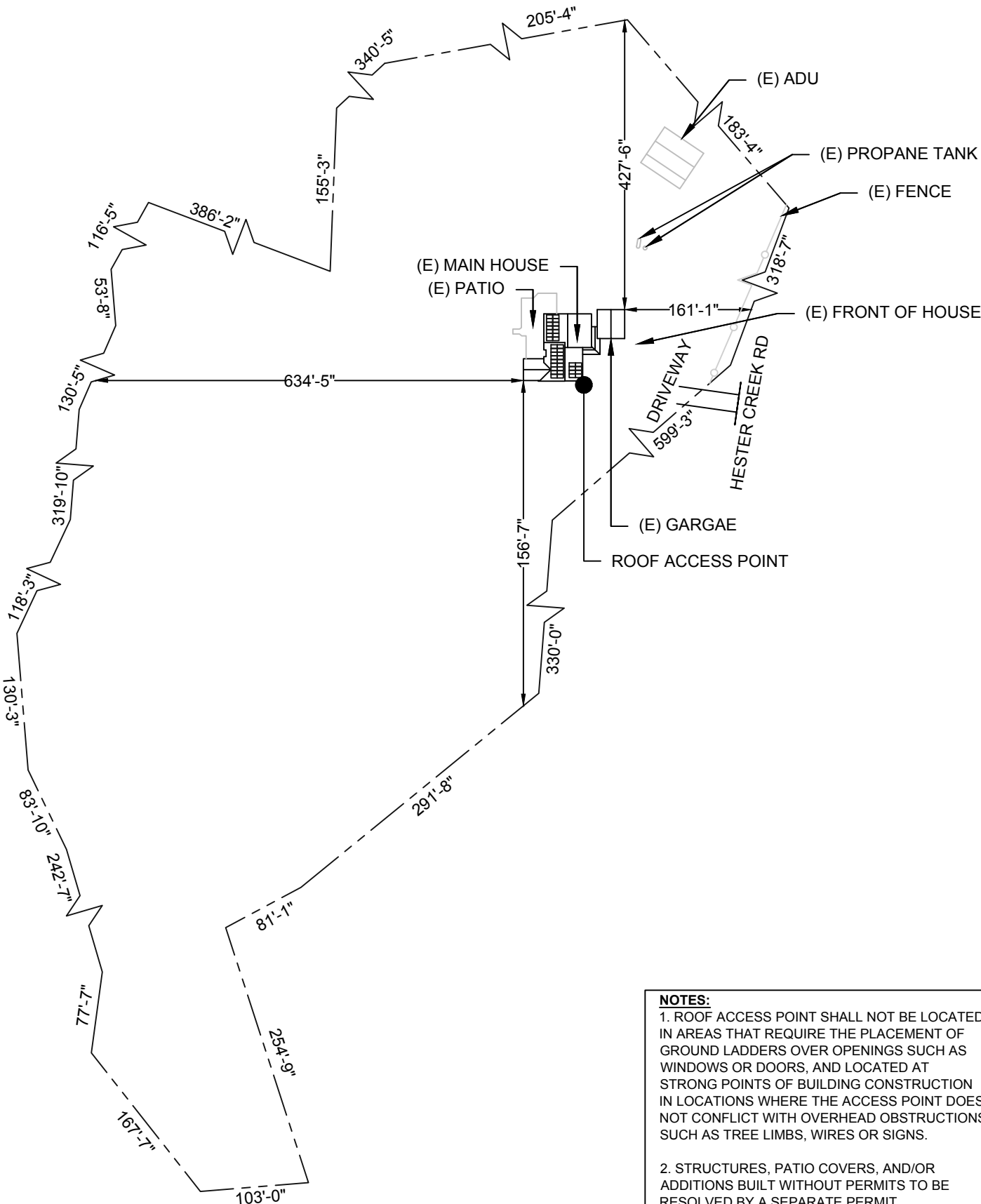
PROJECT NOTES
1.1.1 THIS PHOTOVOLTAIC (PV) SYSTEM SHALL COMPLY WITH THE RELEVANT YEAR OF THE CALIFORNIA ELECTRIC CODE (CEC), ALL MANUFACTURER'S LISTING AND INSTALLATION INSTRUCTIONS, AND THE RELEVANT CODES AS SPECIFIED BY THE AUTHORITY HAVING JURISDICTION'S (AHJ) APPLICABLE CODES.
1.1.2 THE UTILITY INTERCONNECTION APPLICATION MUST BE APPROVED AND THE PV SYSTEM MUST BE INSPECTED PRIOR TO OPERATION
1.1.3 ALL PV SYSTEM COMPONENTS; MODULES, UTILITY-INTERACTIVE INVERTERS, AND SOURCE CIRCUIT COMBINER BOXES ARE IDENTIFIED AND LISTED FOR USE IN PHOTOVOLTAIC SYSTEMS AS REQUIRED BY CEC AND OTHER GOVERNING CODES
1.1.4 ALL SIGNAGE TO BE PLACED IN ACCORDANCE WITH LOCAL BUILDING CODE. IF EXPOSED TO SUNLIGHT, IT SHALL BE UV RESISTANT. ALL PLAQUES AND SIGNAGE WILL BE INSTALLED AS REQUIRED BY THE CEC AND AHJ.

SCOPE OF WORK
1.2.1 CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND SPECIFICATIONS OF THE GRID-TIED PHOTOVOLTAIC SYSTEM. THE CONTRACTOR WILL BE RESPONSIBLE FOR COLLECTION OF EXISTING ONSITE CONDITIONS TO DESIGN, SPECIFY, AND INSTALL THE ROOF-MOUNTED PHOTOVOLTAIC SYSTEM DETAILED IN THIS DOCUMENT



PROPERTY PLAN

SCALE:1/128"=1'-0"



NOTES:
1. ROOF ACCESS POINT SHALL NOT BE LOCATED IN AREAS THAT REQUIRE THE PLACEMENT OF GROUND LADDERS OVER OPENINGS SUCH AS WINDOWS OR DOORS, AND LOCATED AT STRONG POINTS OF BUILDING CONSTRUCTION IN LOCATIONS WHERE THE ACCESS POINT DOES NOT CONFLICT WITH OVERHEAD OBSTRUCTIONS SUCH AS TREE LIMBS, WIRES OR SIGNS.
2. STRUCTURES, PATIO COVERS, AND/OR ADDITIONS BUILT WITHOUT PERMITS TO BE RESOLVED BY A SEPARATE PERMIT.

SHEET INDEX

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| PV-01 | COVER PAGE |
| PV-02 | SITE PLAN |
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| PV-04 | ELECTRICAL DIAGRAM |
| PV-05 | NOTES |
| PV-06 | WARNING LABELS |
| PV-07 | INSTALLATION RESOURCE |

EQUIPMENT DATASHEETS ATTACHED

LEGEND

| | |
|-------|-----------------|
| --- | - PROPERTY LINE |
| ○-○-○ | - FENCE LINE |

VICINITY MAP



SATELLITE MAP



CONTRACTOR

DAY ONE SOLAR

387 CORAL ST, SANTA CRUZ,
CA 95060

LIC. NO. - 987896

County of Santa Cruz
Community Development & Infrastructure
Reviewed for Code Compliance
By: RAI
Date: 11/15/2023
Permit #: B-237270
CCD/DEF:

PROJECT NAME & ADDRESS

ROBERT AND TAMMY ESTES

560 HESTER CREEK RD,
LOS GATOS, CA 95033
APN #: 09723135

AHJ: COUNTY OF SANTA CRUZ
UTILITY: PG&E

SYSTEM DETAILS

DC SIZE: 16.000 KW DC-(STC)
CEC AC SIZE: 1441.420 KW AC
(40) Q CELLS Q.PEAK DUO BLK ML-G10 400W
(40) ENPHASE IQ8A-72-2-US [240V] [S11-SB]

REVISIONS

| REV | DESCRIPTION | DATE |
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SHEET TITLE

COVER PAGE

DRAWN DATE 10/27/2023

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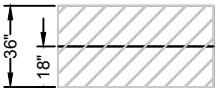


PV-01

NOTES:

1. ROOF ACCESS POINT SHALL NOT BE LOCATED IN AREAS THAT REQUIRE THE PLACEMENT OF GROUND LADDERS OVER OPENINGS SUCH AS WINDOWS OR DOORS, AND LOCATED AT STRONG POINTS OF BUILDING CONSTRUCTION IN LOCATIONS WHERE THE ACCESS POINT DOES NOT CONFLICT WITH OVERHEAD OBSTRUCTIONS SUCH AS TREE LIMBS, WIRES OR SIGNS.
2. STRUCTURES, PATIO COVERS, AND/OR ADDITIONS BUILT WITHOUT PERMITS TO BE RESOLVED BY A SEPARATE PERMIT.

PLAN VIEW TOTAL ROOF AREA: 3973 FT²
TOTAL PV ARRAY AREA: 844.83 FT²
TOTAL % OF ROOF COVERED BY PV: 21.26%

LEGEND

-  FIRE SETBACKS
-  = MECHANICAL VENT
-  = FLUE / PLUMBING VENT
- 1 MICROINVERTER (1 PER MODULE)
- 2 (40) Q CELLS Q.PEAK DUO BLK ML-G10 400W MODULES WITH ENPHASE IQ8A-72-2-US [240V] [SI1-SB] UNDER EACH MODULE
- 3 (N) JUNCTION BOX (NEMA 3R)
- 4 CONDUIT RUN; SURFACE MOUNTED (ACTUAL CONDUIT RUNS TO BE DETERMINED IN FIELD)
- 5 (E) UTILITY METER (UNDERGROUND SERVICE) METER #: 1010300413
- 6 MAIN SERVICE PANEL
- 7 EXISTING MLO PANEL
- 8 ENPHASE IQ COMBINER BOX

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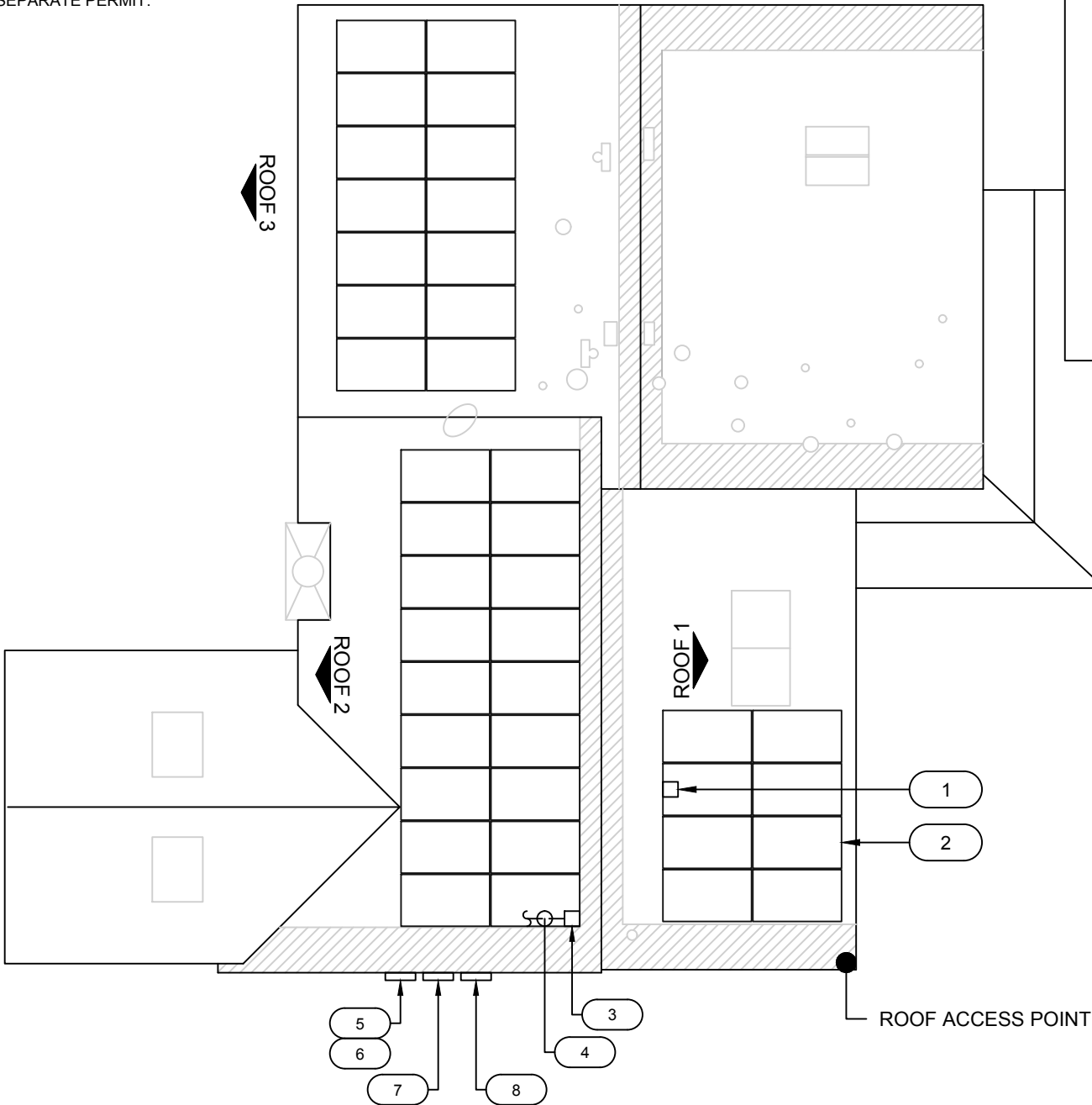
SITE PLAN

DRAWN DATE 10/27/2023

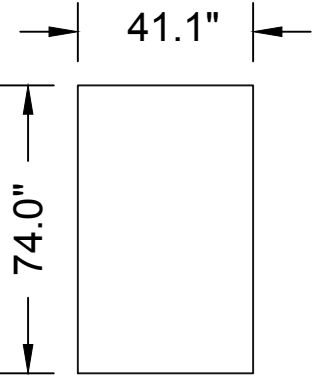
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SHEET NUMBER

PV-02



FRONT OF HOUSE



| | | |
|--------|--------------|---------------------|
| ROOF 1 | SLOPE | - 18° |
| | AZIMUTH | - 95° |
| | MODULE QTY | - 08 |
| | TRUSS | - 2"X6" @ 24" O.C. |
| | SURFACE TYPE | - COMPOSITE SHINGLE |
| ROOF 2 | SLOPE | - 18° |
| | AZIMUTH | - 275° |
| | MODULE QTY | - 18 |
| | TRUSS | - 2"X6" @ 24" O.C. |
| | SURFACE TYPE | - COMPOSITE SHINGLE |
| ROOF 3 | SLOPE | - 18° |
| | AZIMUTH | - 275° |
| | MODULE QTY | - 14 |
| | TRUSS | - 2"X6" @ 24" O.C. |
| | SURFACE TYPE | - COMPOSITE SHINGLE |






1
PV-02

SITE PLAN

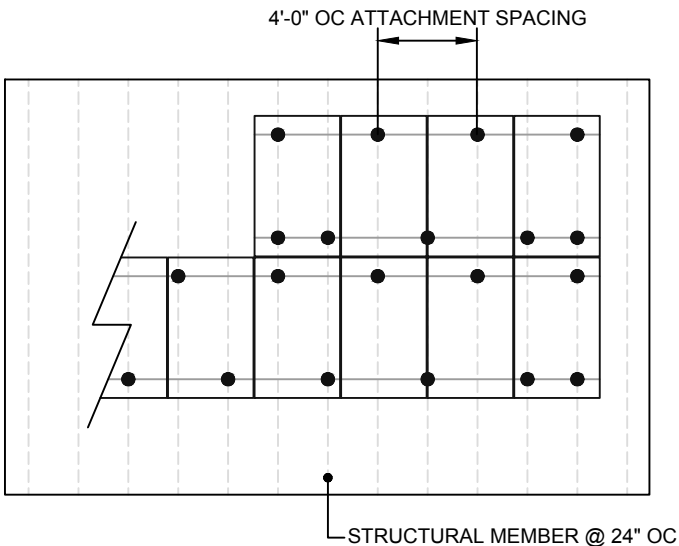
SCALE:3/32" = 1'-0"

| DISTRIBUTED LOAD CALCULATIONS | |
|-------------------------------|------------------------------------|
| MODULE | Q CELLS Q.PEAK DUO BLK ML-G10 400W |
| MODULE WEIGHT | 48.50 LBS |
| MODULE DIMENSIONS (L" x W") | 74.0" x 41.1" |
| TOTAL QTY. OF MODULES | 40 |
| TOTAL WEIGHT OF MODULES | 1940.00 LBS |
| TYPE OF RACKING | IRONRIDGE XR-100 RAIL |
| TYPE OF ATTACHMENT | IRONRIDGE FLASHFOOT2 ATTACHEMTNS |
| DISTRIBUTED WEIGHT OF RACKING | 0.5 PSF |
| TOTAL WEIGHT OF ARRAY | 2362.42 LBS |
| AREA OF MODULE | 21.12 SQFT. |
| TOTAL ARRAY AREA | 844.83 SQFT. |
| DISTRIBUTED LOAD | 2.80 PSF |

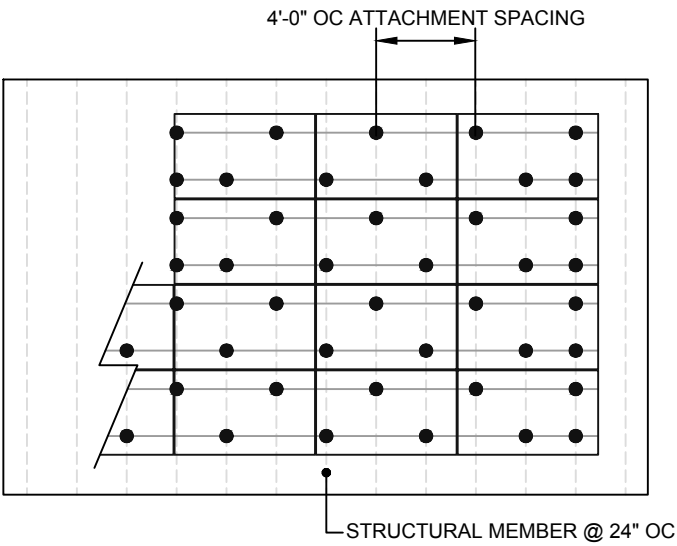
- NOTE:**
- CONTRACTOR/INSTALLER TO VERIFY COMPATIBILITY OF ANY BRANDS OR PRODUCTS SUBSTITUTED OR USED AS ALTERNATES WITHIN ANY BRAND-SPECIFIC SYSTEMS. CONTRACTOR SHALL SUPPLY AND PRESENT CERTIFICATES OF COMPATIBILITY TO THE BUILDING OFFICIAL UPON INSPECTION AS NEEDED.
 - REFER TO PV MODULE MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR RAIL SPACING SPECIFICATIONS

| LEGEND | |
|---|---------------------|
|  | - ATTACHMENT POINTS |
|  | - RAIL |
|  | - STRUCTURAL MEMBER |

| |
|---------------------------------------|
| CONTRACTOR |
| DAY ONE SOLAR |
| 387 CORAL ST, SANTA CRUZ, CA 95060 |
| LIC. NO. - 987896 |



1.0
PV-03
TYPICAL ATTACHMENT PLAN (PORTRAIT)
SCALE: NTS



1.1
PV-03
TYPICAL ATTACHMENT PLAN (LANDSCAPE)
SCALE: NTS

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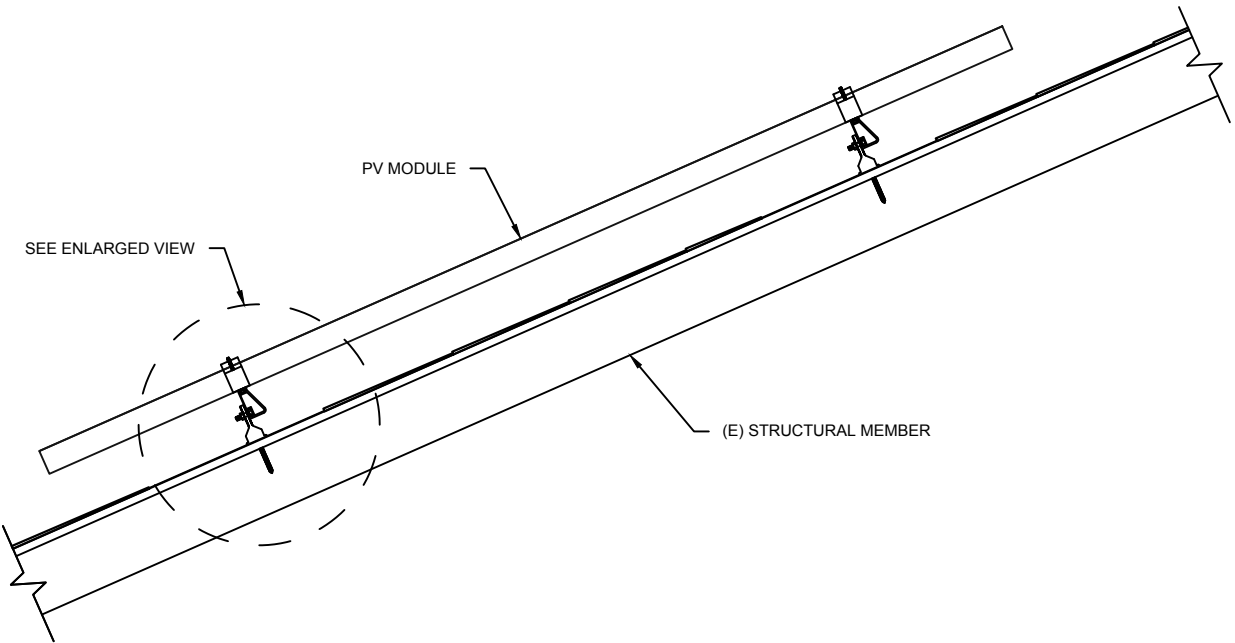
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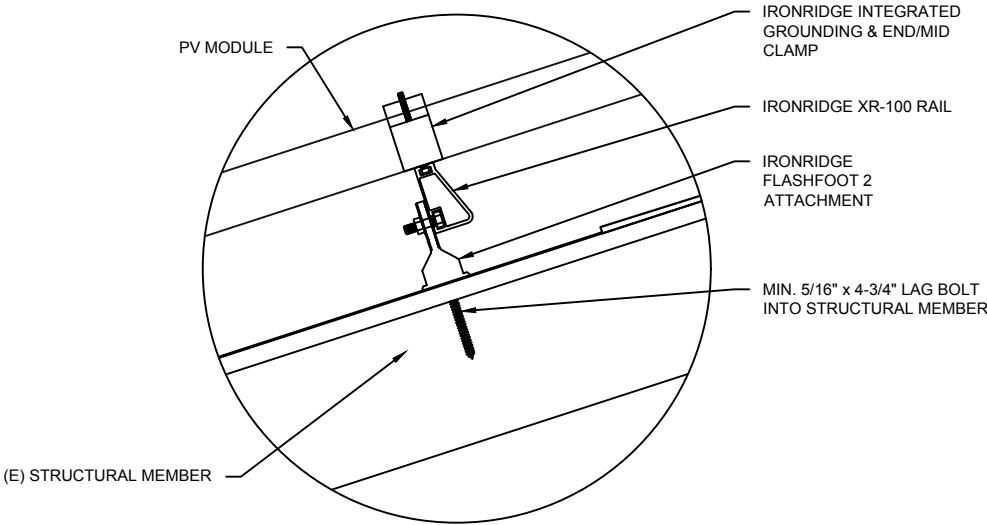
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ATTACHMENT PLAN
& DETAILS

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| DRAWN DATE | 10/27/2023 |
| DRAWN BY | PCAD |

SHEET NUMBER
PV-03



2
PV-03
ATTACHMENT DETAIL
Scale: NTS



3
PV-03
ENLARGED VIEW
Scale: NTS

| MICROINVERTER SPECIFICATIONS | | SOLAR MODULE SPECIFICATIONS | |
|------------------------------|--------------------------------------|-----------------------------|------------------------------------|
| MANUFACTURER / MODEL # | ENPHASE IQ8A-72-2-US [240V] [SI1-SB] | MANUFACTURER / MODEL # | Q CELLS Q.PEAK DUO BLK ML-G10 400W |
| INPUT POWER RANGE | 295W-500W | VMP | 37.13V |
| MIN/MAX START VOLTAGE | 22V/58V | IMP | 10.77A |
| NOMINAL AC VOLTAGE | 240V | VOC | 45.30V |
| MAX CONT. OUTPUT CURRENT | 1.45A | ISC | 11.14A |
| MAX CONT. OUTPUT POWER | 349W | TEMP. COEFF. VOC | -0.27%/°K |
| MAX MODULES PER STRING | 11 (11 MICROINVERTERS) | | |

| AMBIENT TEMPERATURE SPECIFICATIONS | |
|---|------|
| RECORD LOW TEMP | 0°C |
| AMBIENT TEMP (HIGH TEMP 2% AVG.) | 32°C |
| MINIMUM CONDUIT HEIGHT ABOVE ROOF SURFACE | 7/8" |

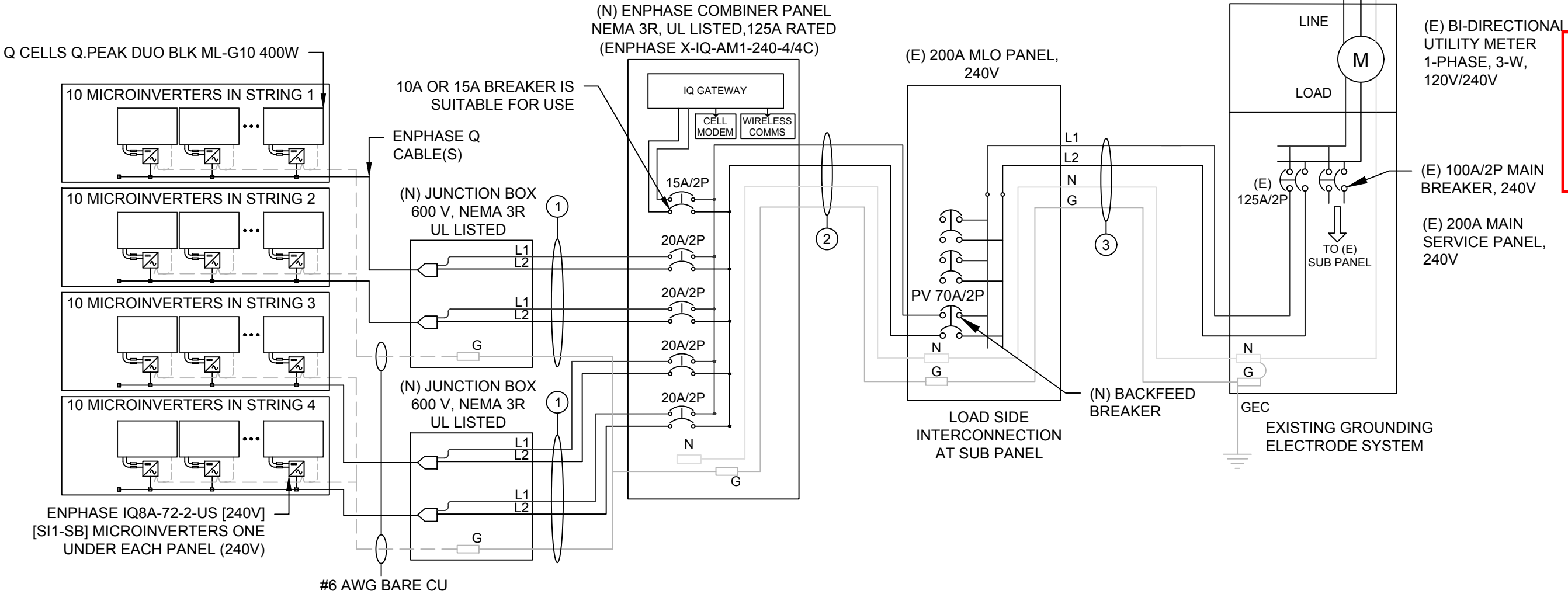
CONTRACTOR

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CA 95060

LIC. NO. - 987896

ROMEX CAN BE USED IN LIEU OF CONDUIT FOR INTERIOR BUILDING AND ATTIC
RUNS ONLY. DO NOT USE ROMEX IN CONDUIT OR OUTDOOR ENVIRONMENTS.



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SHEET TITLE

ELECTRICAL
DIAGRAM

DRAWN DATE 10/27/2023

DRAWN BY PCAD

SHEET NUMBER

PV-04

| DESCRIPTION | | | | | FORMULA (SUB-PANEL) | | | | RESULT | | | |
|---|-------------------------|---------------------|------------------------------------|---------------------|--|---------------------|-------------------------------|-------------------------------|--|---|-------------------------------|-------------------------|
| PV OVERCURRENT PROTECTION CEC 690.9(B) | | | | | TOTAL INVERTER OUTPUT CURRENT x 1.25 = (40 x 1.45)A x 1.25 | | | | 72.50A (SELECTED PV BREAKER = 70A) | | | |
| 120% RULE FOR BACKFEED BREAKER CEC 705.12 | | | | | BUS BAR RATING x 1.2 - MCB RATING = MAX ALLOWABLE PV BREAKER 200A x 1.2 - 125A = 115A | | | | SELECTED PV BREAKER <= MAX ALLOWABLE PV BREAKER 70A <= 115A | | | |
| WIRE ID | EXPECTED WIRE TEMP (°C) | TEMP DERATE (90 °C) | QTY OF CURRENT CARRYING CONDUCTORS | CONDUIT FILL DERATE | MINIMUM CONDUIT SIZE (TBD ON SITE) | WIRE GAUGE & TYPE | CONDUCTOR AMPACITY @ 90°C (A) | CONDUCTOR AMPACITY @ 75°C (A) | REQUIRED CIRCUIT CONDUCTOR AMPACITY (A) | ADJUSTED CONDUCTOR AMPACITY @ 90 °C (A) | NEUTRAL CONDUCTOR SIZE & TYPE | GROUND WIRE SIZE & TYPE |
| 1 | 32 | 0.96 | 4 | 0.8 | 3/4" METAL | #10 THWN-2 | 40 | 35 | 18.13 | 30.72 | NONE | #10 THWN-2 |
| 2 | 32 | 0.96 | 2 | 1 | 1" METAL | #4 Al DIRECT BURIAL | 75 | 65 | 72.50 | 72.00 | #4 Al DIRECT BURIAL | #8 Al DIRECT BURIAL |
| 3 | 32 | 0.96 | 2 | 1 | 1-1/2" METAL | #1 Al DIRECT BURIAL | 115 | 100 | 72.50 | 110.40 | #1 Al DIRECT BURIAL | #6 Al DIRECT BURIAL |

GENERAL NOTES

1. EXISTING PLUMBING VENTS, SKYLIGHTS,EXHAUST OUTLETS, VENTILATION INTAKE AIR OPENINGS SHALL NOT BE COVERED BY THE SOLAR PHOTOVOLTAIC SYSTEM.

2. EQUIPMENT, INVERTERS, MOTOR GENERATORS, PHOTOVOLTAIC MODULES, PHOTOVOLTAIC PANELS, AC PHOTOVOLTAIC MODULES, SOURCE-CIRCUIT COMBINERS, AND CHARGE CONTROLLERS INTENDED FOR USE IN PHOTOVOLTAIC POWER SYSTEMS SHALL BE IDENTIFIED AND LISTED FOR THE APPLICATION. [CEC 690.4(B)]

3. ALL OUTDOOR EQUIPMENT SHALL BE NEMA 3R RATED, INCLUDING ALL ROOF MOUNTED TRANSITION BOXES AND NON ROOF SWITCHES. ROOF SWITCHES TO BE NEMA 3R RATED.

4. ALL EQUIPMENT SHALL BE PROPERLY GROUNDED AND BONDED IN ACCORDANCE WITH CEC ARTICLE 250.

5. PROTECTION DEVICES FOR PV SOURCE CIRCUITS AND PV OUTPUT CIRCUITS ALSO CONNECTED TO SOURCES HAVING SIGNIFICANTLY HIGHER CURRENT AVAILABILITY (E.G., PARALLEL STRINGS OF MODULES, UTILITY POWER), SHALL BE PROTECTED AT THE SOURCE FROM OVERCURRENT [CEC 690.9(A)]

6. PV SYSTEM CIRCUITS INSTALLED ON OR IN BUILDINGS SHALL INCLUDE A RAPID SHUTDOWN FUNCTION [CEC 690.12]

7. THE UTILITY INTERACTIVE INVERTERS SHALL AUTOMATICALLY DE-ENERGIZE ITS OUTPUT TO THE CONNECTED ELECTRICAL PRODUCTION AND DISTRIBUTION NETWORK UPON LOSS OF VOLTAGE IN THE SYSTEM AND SHALL REMAIN IN THAT STATE UNTIL THE ELECTRICAL PRODUCTION AND DISTRIBUTION NETWORK VOLTAGE HAS BEEN RESTORED. [CEC 705.41]

8. ALL CONDUCTOR EXPOSED TO WEATHER SHALL BE LISTED AND IDENTIFIED FOR USE IN DIRECT SUNLIGHT. [CEC 310.10(D)(1)]

9.THE MODULE CONDUCTORS MUST BE TYPE USE-2 OR LISTED FOR PHOTOVOLTAIC (PV) WIRE [CEC 690.31(C)]

10. ALL CONDUCTORS SHALL BE MARKED ON EACH END FOR UNIQUE IDENTIFICATION.

11. AN INSULATED GROUNDED CONDUCTOR OF 6 AWG OR SMALLER SHALL BE IDENTIFIED AS A CONTINUOUS WHITE FINISH [CEC 200.6]

12. THE OUTPUT OF AN INTERCONNECTED ELECTRICAL POWER SOURCE SHALL BE PERMITTED TO BE CONNECTED TO THE LOAD SIDE. INTERCONNECTING PROVISIONS FOR OTHER POWER SOURCES SHALL COMPLY WITH CEC 705.12.

13. EACH SOURCE INTERCONNECTION OF ONE OR MORE POWER SOURCES INSTALLED IN ONE SYSTEM SHALL BE MADE AT A DEDICATED CIRCUIT BREAKER OR FUSIBLE DISCONNECTING MEANS IN ACCORDANCE WITH CEC 705.12.

14. THE SUM OF THE AMPERE RATING OF THE OVERCURRENT PROTECTION DEVICES IN CIRCUITS SUPPLYING POWER TO THE BUSBAR OR CONDUCTOR SHALL NOT EXCEED 120% OF THE RATING OF BUSBAR OR CONDUCTOR IN ACCORDANCE WITH CEC 705.12

15. A CONNECTION AT EITHER END, BUT NOT BOTH ENDS, OF A CENTER-FED PANEL BOARD IN DWELLINGS SHALL BE PERMITTED WHERE THE SUM OF 125 PERCENT OF THE POWER SOURCE(S) OUTPUT CIRCUIT CURRENT AND THE RATING OF THE OVERCURRENT DEVICE PROTECTING THE BUSBAR DOES NOT EXCEED 120 PERCENT OF THE CURRENT RATING OF THE BUSBAR IN ACCORDANCE WITH CEC 705.12.

16. EQUIPMENT CONTAINING OVERCURRENT PROTECTION DEVICES IN CIRCUITS SUPPLYING POWER TO A BUS BAR OR CONDUCTOR SHALL BE MARKED TO INDICATE THE PRESENCE OF ALL SOURCES IN ACCORDANCE WITH CEC 705.12.

17. CIRCUIT BREAKER, IF BACKFED, SHALL BE SUITABLE FOR SUCH OPERATION IN ACCORDANCE WITH CEC 705.12.

18. TO MINIMIZE OVERHEATING OF THE BUSBAR IN ELECTRICAL ENCLOSURE, THE MAIN CIRCUIT BREAKER AND THE PV POWER SOURCE CIRCUIT BREAKER SHALL BE PHYSICALLY LOCATED AT THE OPPOSITE END OF THE BUSBAR.

19. ALL THE CEC REQUIRED WARNING SIGNS, MARKINGS, AND LABELS SHALL BE POSTED ON EQUIPMENT AND DISCONNECTS PRIOR TO ANY INSPECTIONS.

20. WHERE PV SYSTEM DC CIRCUIT'S RUN INSIDE A BUILDING, THEY SHALL BE CONTAINED IN METAL RACEWAYS TYPE MC METAL CLAD CABLE OR METAL ENCLOSURES FROM POINT OF PENETRATION OF THE SURFACE OF THE BUILDING TO THE FIRST READILY ACCESSIBLE DISCONNECTING MEANS [CEC 690.31(G)].

21. FLEXIBLE, FINE-STRANDED CABLES SHALL BE TERMINATED ONLY WITH TERMINALS, LUGS, DEVICES OR CONNECTORS THAT ARE LISTED IN ACCORDANCE WITH CEC 110.14.

22. CONNECTORS SHALL BE OF LATCHING OR LOCKING TYPE. CONNECTORS THAT ARE READILY ACCESSIBLE AND OPERATING AT OVER 30V DC OR 15V AC SHALL REQUIRE TOOL TO OPEN AND MARKED "DO NOT DISCONNECT UNDER LOAD" OR "NOT FOR CURRENT INTERRUPTING"[CEC 690.33(C) & (E)(2)].

23. EQUIPMENT GROUNDING CONDUCTOR FOR PV MODULES SMALLER THAN 6 AWG SHALL BE PROTECTED FROM PHYSICAL DAMAGE BY A RACEWAY OR CABLE ARMOR. [CEC 690.46 & 250.120(C)]

24. AN EQUIPMENT GROUNDING CONDUCTOR SHALL NOT BE SMALLER THAN 14 AWG [CEC 690.45]

25. GROUNDING ELECTRODE CONDUCTOR(S) SHALL BE INSTALLED IN ONE CONTINUOUS LENGTH WITHOUT A SPLICE OR JOINT. IF NECESSARY, SPLICES OR CONNECTIONS SHALL BE MADE AS PERMITTED [CEC 250.64 C)]

26. ALL SMOKE ALARMS, CARBON MONOXIDE ALARMS AND AUDIBLE NOTIFICATION DEVICES SHALL BE LISTED AND LABELED IN ACCORDANCE WITH UL 217 AND UL 2034. THEY WILL BE INSTALLED IN ACCORDANCE WITH NFPA 72 AND NFPA 720 [IRC 2019 R314 & R315]

27. SMOKE ALARMS AND CARBON MONOXIDE ALARMS WILL BE RETROFITTED INTO THE EXISTING DWELLING. THESE SMOKE ALARMS ARE REQUIRED TO BE IN ALL BEDROOMS, OUTSIDE EACH BEDROOM, AND AT LEAST ONE ON EACH FLOOR OF THE HOUSE CARBON MONOXIDE ALARMS ARE REQUIRED TO BE RETROFITTED OUTSIDE EACH BEDROOM AND AT LEAST ONE ON EACH FLOOR OF THE HOUSE. THESE ALARMS MAY BE SOLELY BATTERY OPERATED IF THE PHOTOVOLTAIC PROJECT DOES NOT INVOLVE THE REMOVAL OF INTERIOR WALL AND CEILING FINISHES INSIDE THE HOME, OTHERWISE, THE ALARMS MUST BE HARD WIRED AND INTERCONNECTED.

28. LISTED OR LABELED EQUIPMENT SHALL BE INSTALLED AND USED IN ACCORDANCE WITH ANY INSTRUCTIONS INCLUDED IN THE LISTING OR LABELING PER NEC

| | | |
|--|-------------|------|
| CONTRACTOR | | |
| DAY ONE SOLAR | | |
| 387 CORAL ST, SANTA CRUZ, CA 95060 | | |
| LIC. NO. - 987896 | | |
| <div>County of Santa Cruz Community Development & Infrastructure</div> <div>Reviewed for Code Compliance</div> <div>By: RAI Date: 11/15/2023 Permit: B-237270 CCD/DEF:</div> | | |
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| 560 HESTER CREEK RD, LOS GATOS, CA 95033 APN #: 09723135 | | |
| AHJ: COUNTY OF SANTA CRUZ UTILITY: PG&E | | |
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| REVISIONS | | |
| REV | DESCRIPTION | DATE |
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| | | |
| SHEET TITLE | | |
| NOTES | | |
| DRAWN DATE | 10/27/2023 | |
| DRAWN BY | PCAD | |
| SHEET NUMBER | | |
| PV-05 | | |

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WARNING

ELECTRICAL SHOCK HAZARD

TERMINALS ON THE LINE AND
LOAD SIDES MAY BE ENERGIZED
IN THE OPEN POSITION

LABEL LOCATION: COMBINER PANEL, AC
DISCONNECT, POINT OF INTERCONNECTION
PER CODE: CEC 706.15(C)(4), CEC 690.13(B)

⚠️

WARNING

TURN OFF PHOTOVOLTAIC AC
DISCONNECT PRIOR TO
WORKING INSIDE PANEL

LABEL LOCATION: COMBINER PANEL(S), MAIN SERVICE DISCONNECT
PER CODE: CEC 110.27(C), OSHA 1910.145(f)(7)

PHOTOVOLTAIC POWER SOURCE

LABEL LOCATION: DC CONDUIT/RACEWAYS
PER CODE: CEC 690.31(D)(2)

SOLAR PV DC CIRCUIT

LABEL LOCATION: DC CONDUIT/RACEWAYS
PER CODE: CEC 690.31(D)(2)

PHOTOVOLTAIC SYSTEM AC DISCONNECT

RATED AC OUTPUT CURRENT:58.00 A

NOMINAL OPERATING AC VOLTAGE:240 V

LABEL LOCATION: AC DISCONNECT/POINT OF INTERCONNECTION
PER CODE: CEC 690.54

⚠️

WARNING

DUAL POWER SOURCE
SECOND SOURCE IS PHOTOVOLTAIC SYSTEM

LABEL LOCATION: MAIN SERVICE DISCONNECT, PRODUCTION/NET METER
PER CODE: CEC 690.59, 705.12(C)

PV SYSTEM

DISCONNECT

LABEL LOCATION: AC DISCONNECT
PER CODE: CEC 690.13(B)

⚠️

WARNING

THIS EQUIPMENT FED BY MULTIPLE
SOURCES:
TOTAL RATING OF ALL OVERCURRENT
DEVICES EXCLUDING MAIN POWER
SUPPLY SHALL NOT EXCEED
AMPACITY OF BUSBAR

LABEL LOCATION: AC DISCONNECT
PER CODE: CEC 705.12(B)(3)(3)

⚠️

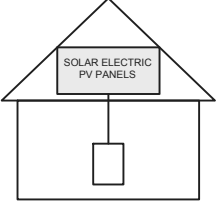
WARNING

POWER SOURCE OUTPUT
CONNECTION. DO NOT RELOCATE
THIS OVERCURRENT DEVICE.

LABEL LOCATION: POINT OF INTERCONNECTION
PER CODE: CEC 705.12(B)(3)(2)

SOLAR PV SYSTEM EQUIPPED
WITH RAPID SHUTDOWN

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



LABEL LOCATION: MAIN SERVICE DISCONNECT
PER CODE: CEC 690.56(C)

MAIN PHOTOVOLTAIC
SYSTEM DISCONNECT

LABEL LOCATION: MAIN SERVICE DISCONNECT, UTILITY METER
PER CODE: CEC 690.13(B)

RAPID SHUTDOWN SWITCH
FOR SOLAR PV SYSTEM

LABEL LOCATION: RSD INITIATION DEVICE, AC DISCONNECT
PER CODE: CEC 690.56(C)(2)

⚠️

CAUTION

PHOTOVOLTAIC SYSTEM CIRCUIT IS BACKFED

LABEL LOCATION: MAIN SERVICE DISCONNECT
PER CODE: CEC 705.12(D), CEC 690.59

DO NOT DISCONNECT
UNDER LOAD

LABEL LOCATION: MAIN SERVICE DISCONNECT
PER CODE: CEC 690.15(B) & CEC 690.33(D)(2)

MAXIMUM DC VOLTAGE

OF PV SYSTEM

LABEL LOCATION: DC DISCONNECT/INVERTER/PV DIST.
EQUIPMENT
PER CODE: CEC 690.53

⚠️

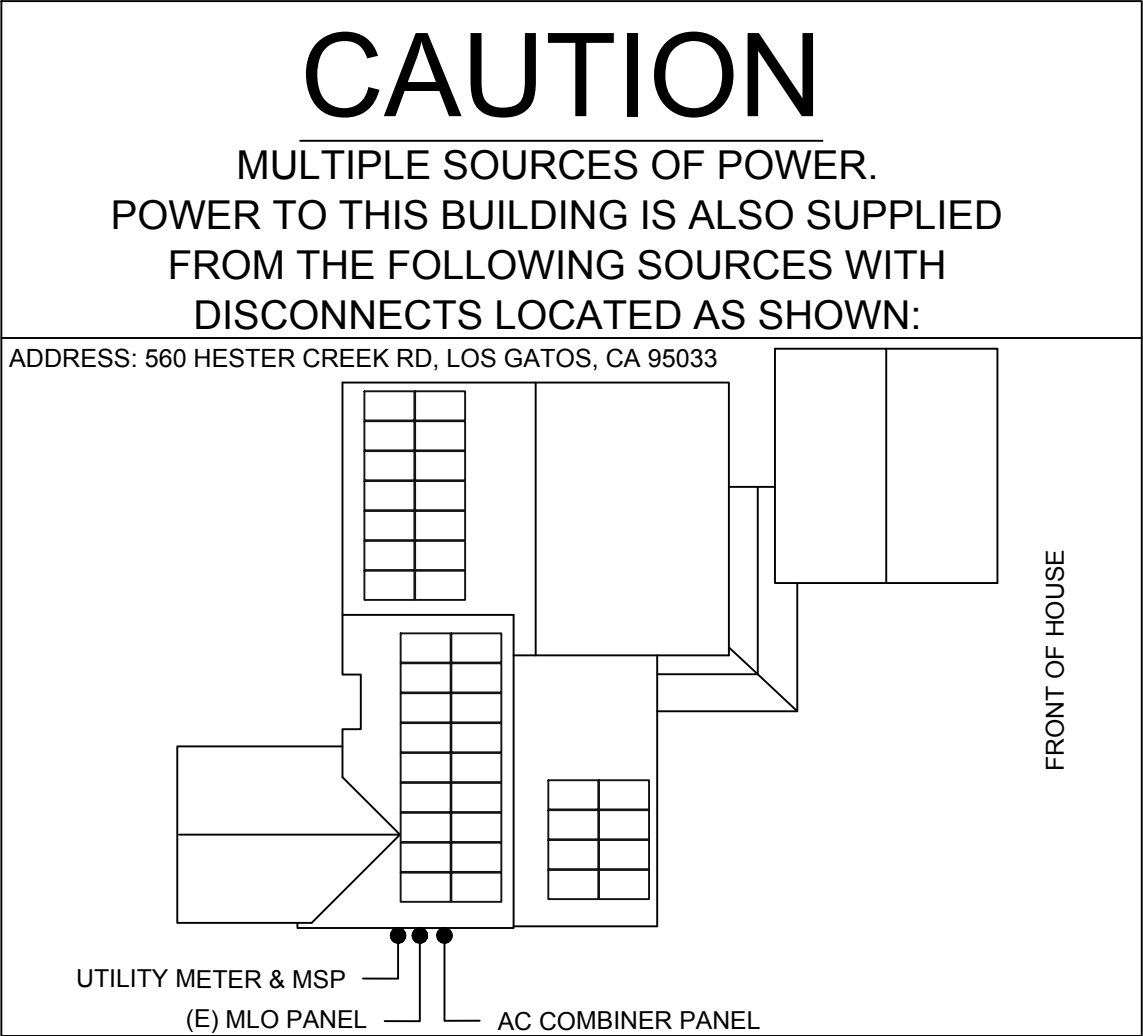
WARNING

ELECTRICAL SHOCK HAZARD

TERMINALS ON BOTH LINE AND
LOAD SIDES MAY BE ENERGIZED
IN THE OPEN POSITION

DC VOLTAGE IS ALWAYS PRESENT WHEN
SOLAR MODULES ARE EXPOSED TO SUNLIGHT

LABEL LOCATION: DC DISCONNECT
PER CODE: CEC 690.13(B)



CONTRACTOR

DAY ONE SOLAR

387 CORAL ST, SANTA CRUZ,
CA 95060

LIC. NO. - 987896

County of Santa Cruz
Community Development & Infrastructure

Reviewed for Code Compliance

By: RAI
Date: 11/15/2023
Permit: B-237270
CCD/DEF:

PROJECT NAME & ADDRESS

ROBERT AND TAMMY ESTES

560 HESTER CREEK RD,
LOS GATOS, CA 95033
APN #: 09723135

AHJ: COUNTY OF SANTA CRUZ
UTILITY: PG&E

SYSTEM DETAILS

DC SIZE: 16.000 KW DC-(STC)
CEC AC SIZE: 1441.420 KW AC
(40) Q CELLS Q.PEAK DUO BLK ML-G10 400W
(40) ENPHASE IQ8A-72-2-US [240V] [SI1-SB]

REVISIONS

| REV | DESCRIPTION | DATE |
|-----|-------------|------|
| | | |
| | | |
| | | |
| | | |

SHEET TITLE

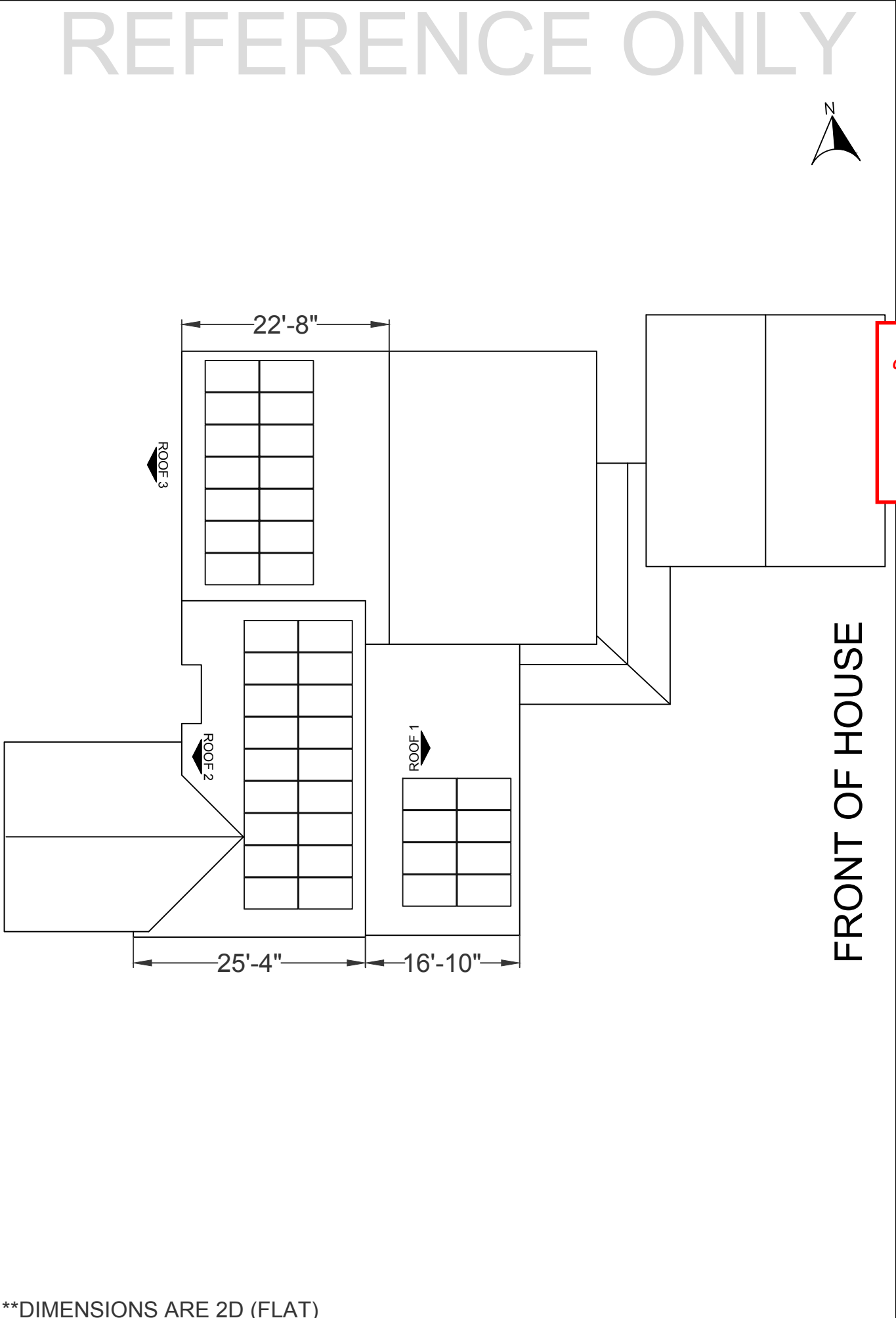
WARNING LABELS

| | |
|------------|------------|
| DRAWN DATE | 10/27/2023 |
| DRAWN BY | PCAD |

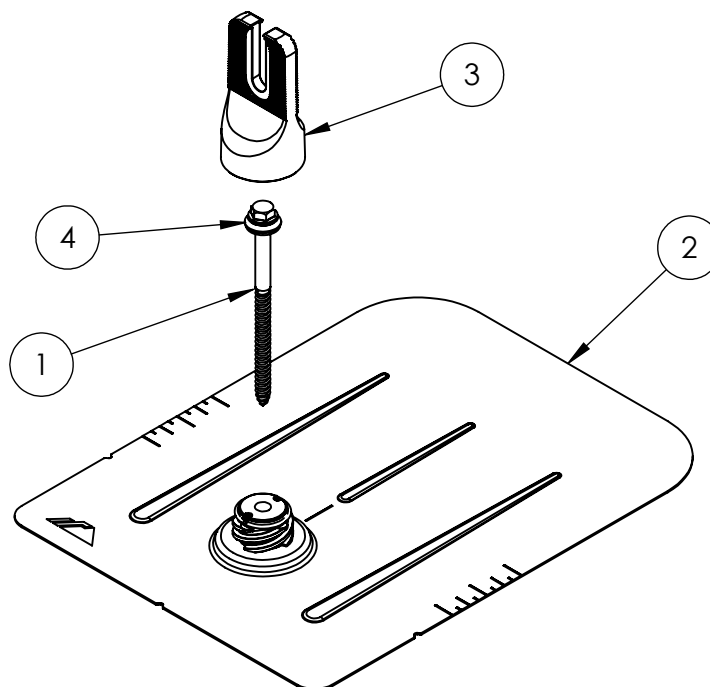
SHEET NUMBER

PV-06

| | A | B | C | D | E | F |
|----|---|---|---|---|---|---|
| 1 | | | | | | |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |



| | | |
|--|-------------|------|
| CONTRACTOR | | |
| DAY ONE SOLAR | | |
| 387 CORAL ST, SANTA CRUZ, CA 95060 | | |
| LIC. NO. - 987896 | | |
| <div>County of Santa Cruz Community Development & Infrastructure Reviewed for Code Compliance By: RAI Date: 11/15/2023 Permit: B-237270 CCD/DEF:</div> | | |
| PROJECT NAME & ADDRESS | | |
| ROBERT AND TAMMY ESTES | | |
| 560 HESTER CREEK RD, LOS GATOS, CA 95033 APN #: 09723135 | | |
| AHJ: COUNTY OF SANTA CRUZ UTILITY: PG&E | | |
| SYSTEM DETAILS | | |
| DC SIZE: 16.000 KW DC-(STC) CEC AC SIZE: 1441.420 KW AC (40) Q CELLS Q.PEAK DUO BLK ML-G10 400W (40) ENPHASE IQ8A-72-2-US [240V] [S11-SB] | | |
| REVISIONS | | |
| REV | DESCRIPTION | DATE |
| | | |
| | | |
| | | |
| | | |
| SHEET TITLE | | |
| INSTALLATION | | |
| RESOURCE | | |
| DRAWN DATE | 10/27/2023 | |
| DRAWN BY | PCAD | |
| SHEET NUMBER | | |
| PV-07 | | |

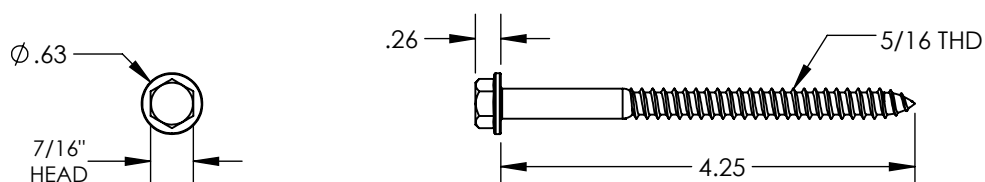


| ITEM NO. | DESCRIPTION | QTY IN KIT |
|----------|-----------------------|------------|
| 1 | BOLT LAG 5/16 X 4.25" | 1 |
| 2 | ASSY, FLASHING | 1 |
| 3 | ASSY, CAP | 1 |
| 4 | WASHER, EPDM BACKED | 1 |

FLASHFOOT 2

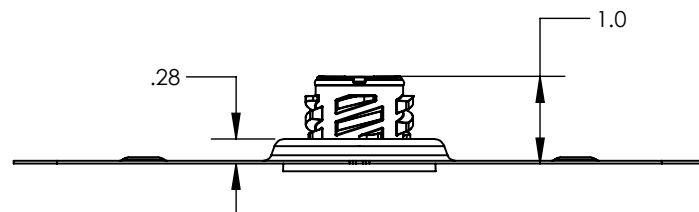
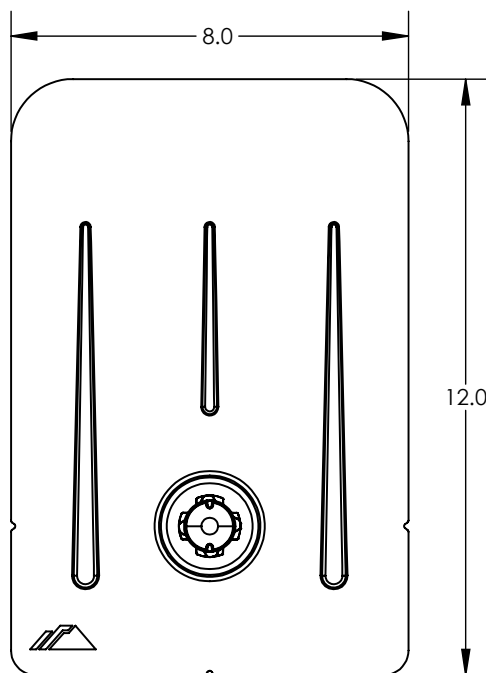
| PART NUMBER | DESCRIPTION |
|-------------|---------------------|
| FF2-02-M2 | FLASHFOOT2® (MILL) |
| FF2-02-B2 | FLASHFOOT2® (BLACK) |

1) BOLT, LAG 5/16 x 4.25



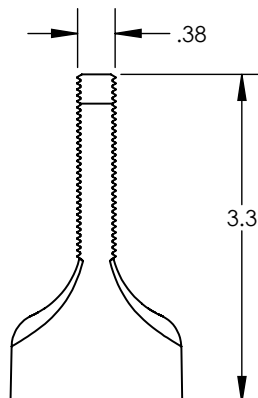
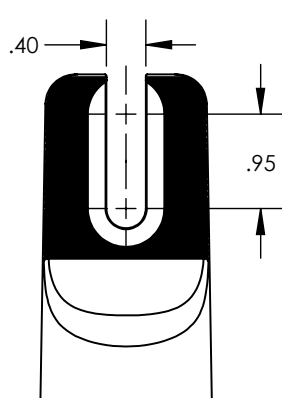
| PROPERTY | VALUE |
|----------|----------------------------|
| MATERIAL | 300 SERIES STAINLESS STEEL |
| FINISH | CLEAR |

2) ASSY, FLASHING



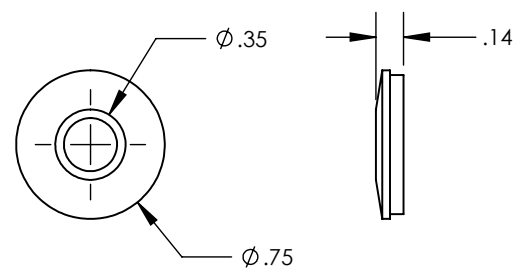
| PROPERTY | VALUE |
|----------|------------|
| MATERIAL | ALUMINUM |
| FINISH | MILL/BLACK |

3) ASSY, CAP

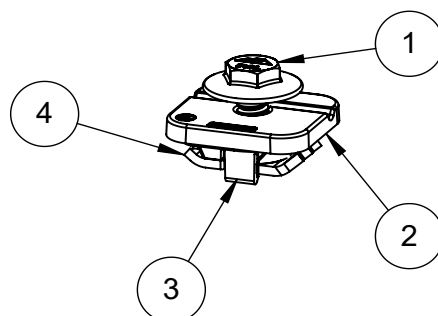


| PROPERTY | VALUE |
|----------|------------|
| MATERIAL | ALUMINUM |
| FINISH | MILL/BLACK |

4) WASHER, EPDM BACKED

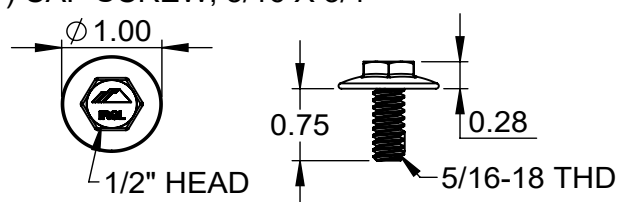


| PROPERTY | VALUE |
|----------|----------------------------|
| MATERIAL | 300 SERIES STAINLESS STEEL |
| FINISH | CLEAR |

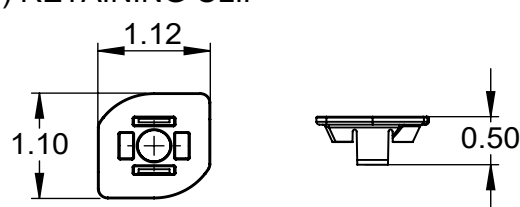


| ITEM NO. | DESCRIPTION | QTY IN KIT |
|----------|---------------------------------|------------|
| 1 | CAP SCREW, 5/16 X 3/4, HEX HEAD | 1 |
| 2 | TOP PLATE GROUNDING LUG | 1 |
| 3 | RETAINING CLIP, GROUNDING LUG | 1 |
| 4 | T-NUT, SHEET METAL | 1 |

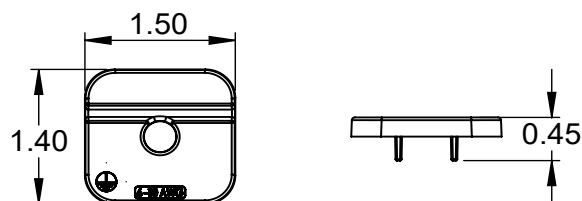
| PART NUMBER | DESCRIPTION | WIRE SIZE RANGE (AWG) |
|--------------|-------------|-----------------------|
| AE-LUG-01-M1 | AIRE LUG | 6-10 |

1) CAP SCREW, 5/16 X 3/4

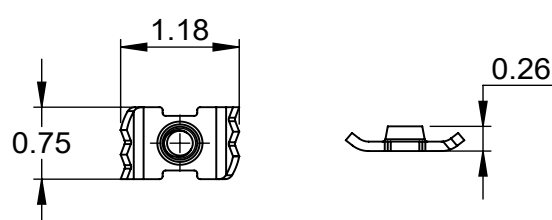
| Property | Value |
|----------|----------------------------|
| Material | 300 Series Stainless Steel |
| Finish | Clear |

3) RETAINING CLIP

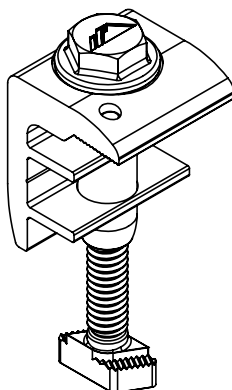
| Property | Value |
|----------|---------------|
| Material | Polypropylene |
| Finish | Black |

2) TOP PLATE

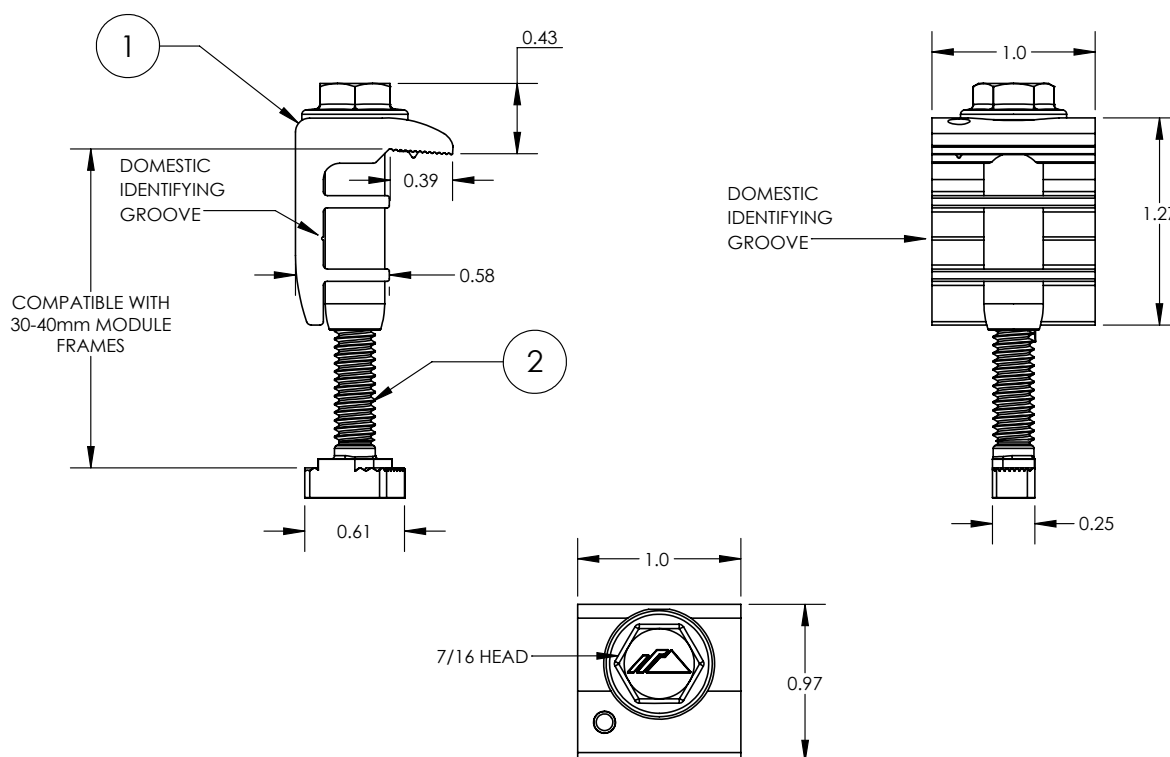
| Property | Value |
|----------|---------------------|
| Material | Tin Plated Aluminum |
| Finish | Clear Matte |

4) T-NUT, SHEET METAL

| Property | Value |
|----------|----------------------------|
| Material | 300 Series Stainless Steel |
| Finish | Clear |

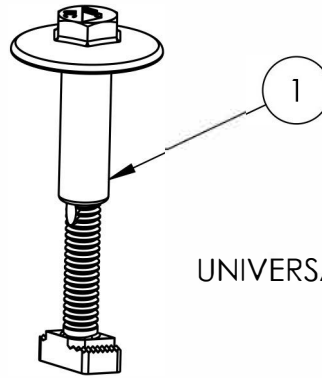


| PART NUMBER | DESCRIPTION |
|------------------|--|
| UFO-END-01-A1-US | END FASTENING OBJECT (END CLAMP, 30-40mm), MILL, US |
| UFO-END-01-B1-US | END FASTENING OBJECT (END CLAMP, 30-40mm), BLACK, US |



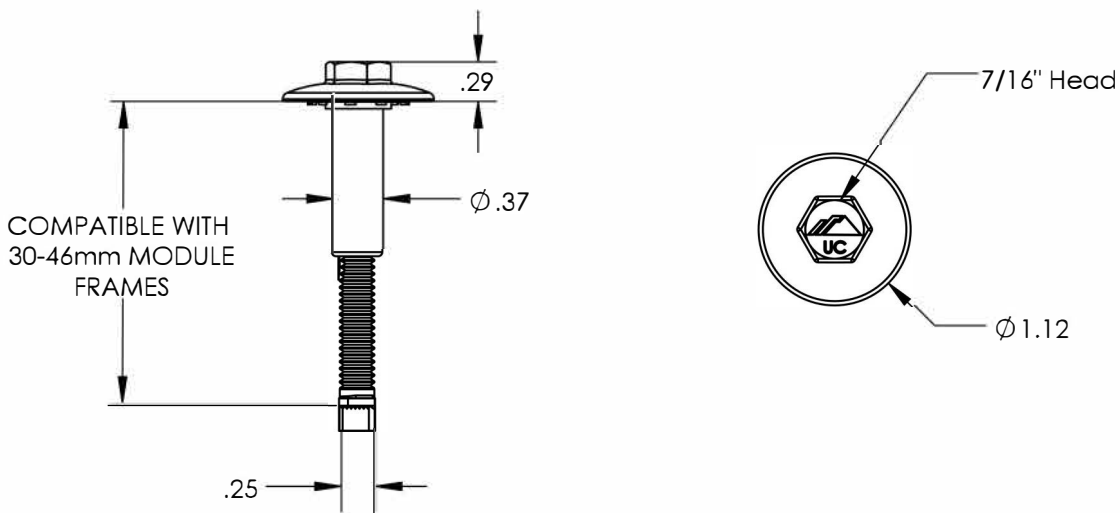
| ITEM NO | MATERIAL | FINISH |
|---------|----------------------------|-----------------|
| 1 | 6000 SERIES ALUMINUM | MILL AND BLACK |
| 2 | 300 SERIES STAINLESS STEEL | CLEAR AND BLACK |

Only for installation and use with IronRidge products in
accord with written instructions see IronRidge.com/UFO

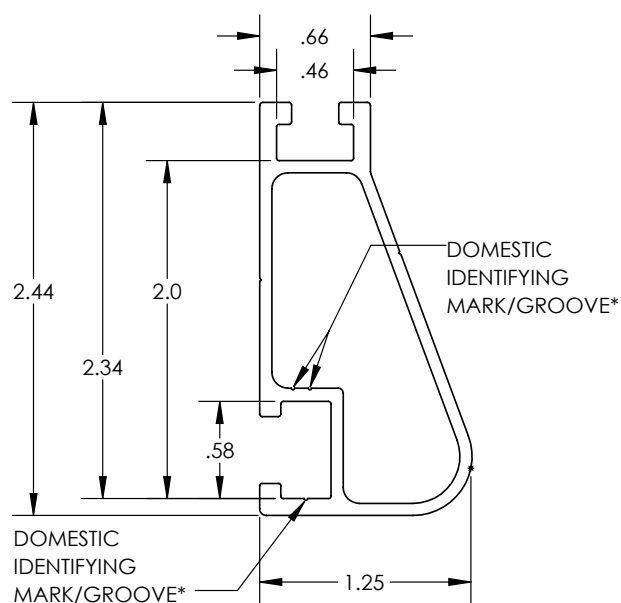
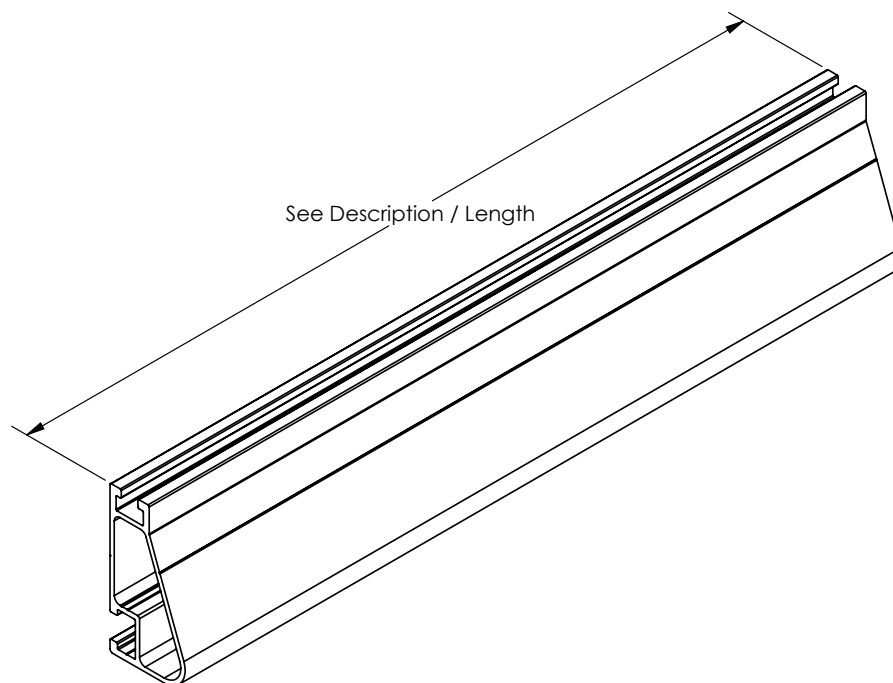


UNIVERSAL FASTENING OBJECT®

| ITEM NO. | DESCRIPTION |
|--------------|-------------------------------|
| UFO-CL-01-A1 | UNIVERSAL MODULE CLAMP, CLEAR |
| UFO-CL-01-B1 | UNIVERSAL MODULE CLAMP, BLACK |



| Property | Value |
|----------|----------------------------|
| Material | 300 Series Stainless Steel |
| Finish | Clear and Black |

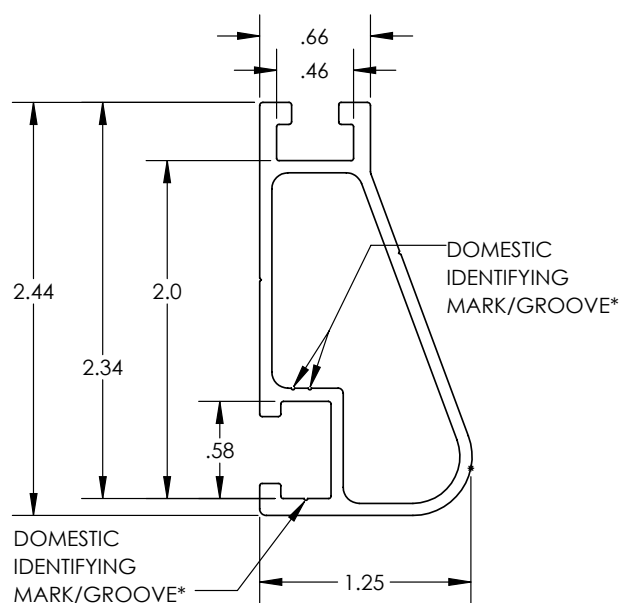
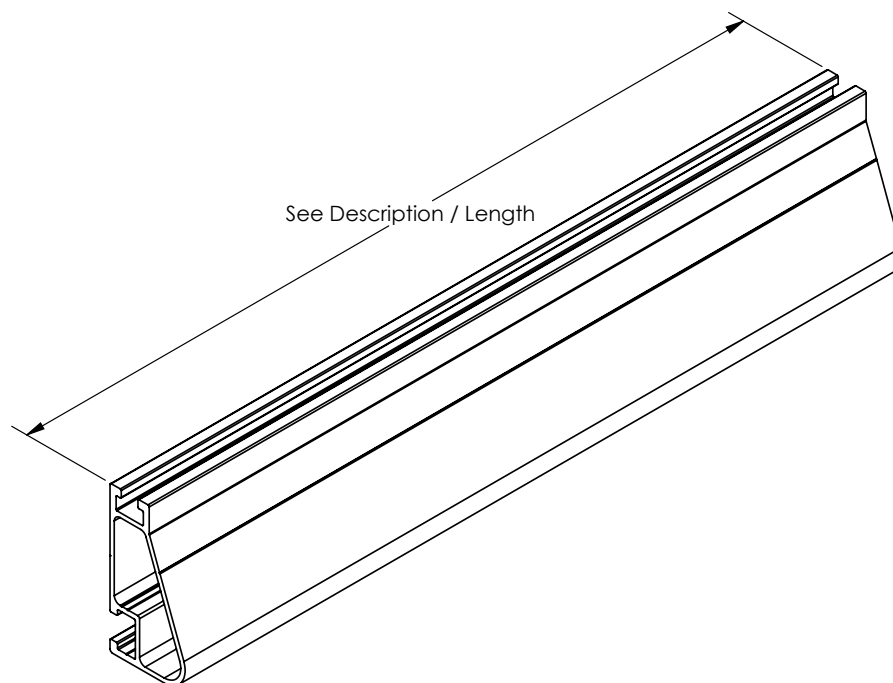


| RAIL SECTION PROPERTIES | |
|----------------------------|-----------------------|
| PROPERTY | VALUE |
| TOTAL CROSS-SECTIONAL AREA | 0.582 in ² |
| SECTION MODULUS (X-AXIS) | 0.297 in ³ |
| MOMENT OF INTERIA (X-AXIS) | 0.390 in ⁴ |
| MOMENT OF INTERIA (Y-AXIS) | 0.085 in ⁴ |
| TORSIONAL CONSTANT | 0.214 in ³ |
| POLAR MOMENT OF INERTIA | 0.126 in ⁴ |

APPROVED MATERIALS:
 6005-T6, 6005A-T61, 6105-T5, 6N01-T6
 (34,000 PSI YIELD STRENGTH MINIMUM)

*DOMESTIC IDENTIFIER PRESENT IN EITHER LOCATION OF RAIL

| PART NUMBER | FINISH | DESCRIPTION / LENGTH | MATERIAL | WEIGHT |
|----------------|--------|---------------------------------|------------------------|-----------|
| XR-100-168M-US | MILL | XR100, Rail 168" (14 Feet) - US | 6000 - SERIES ALUMINUM | 9.55 lbs. |
| XR-100-168B-US | BLACK | XR100, Rail 168" (14 Feet) - US | | 9.55 lbs. |

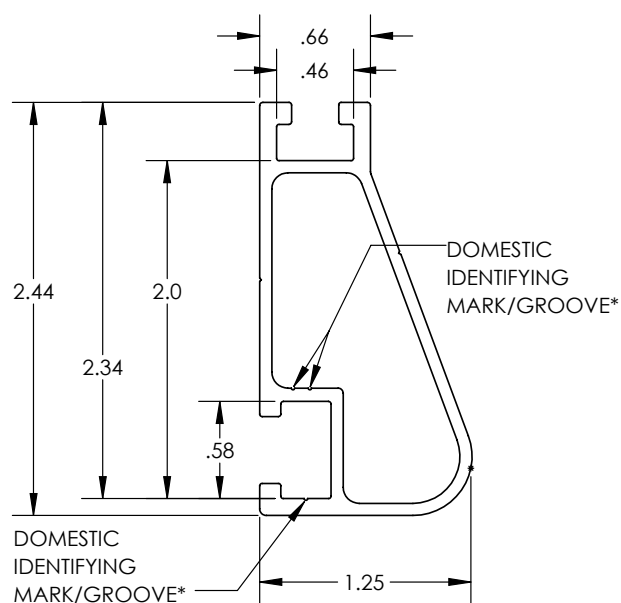
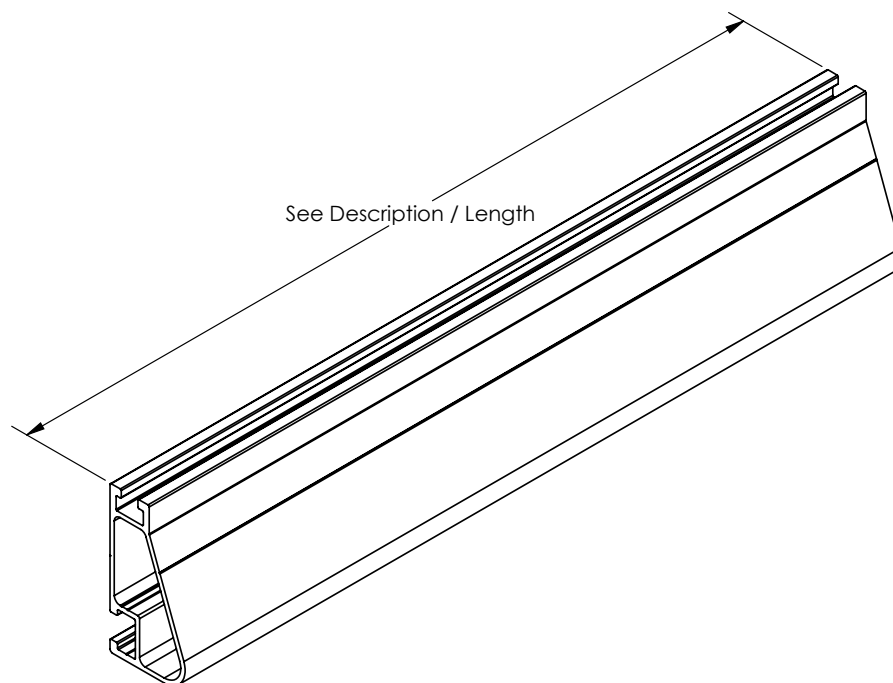


| RAIL SECTION PROPERTIES | |
|----------------------------|-----------------------|
| PROPERTY | VALUE |
| TOTAL CROSS-SECTIONAL AREA | 0.582 in ² |
| SECTION MODULUS (X-AXIS) | 0.297 in ³ |
| MOMENT OF INTERIA (X-AXIS) | 0.390 in ⁴ |
| MOMENT OF INTERIA (Y-AXIS) | 0.085 in ⁴ |
| TORSIONAL CONSTANT | 0.214 in ³ |
| POLAR MOMENT OF INERTIA | 0.126 in ⁴ |

APPROVED MATERIALS:
 6005-T6, 6005A-T61, 6105-T5, 6N01-T6
 (34,000 PSI YIELD STRENGTH MINIMUM)

*DOMESTIC IDENTIFIER PRESENT IN EITHER LOCATION OF RAIL

| PART NUMBER | FINISH | DESCRIPTION / LENGTH | MATERIAL | WEIGHT |
|----------------|--------|---------------------------------|------------------------|-----------|
| XR-100-168M-US | MILL | XR100, Rail 168" (14 Feet) - US | 6000 - SERIES ALUMINUM | 9.55 lbs. |
| XR-100-168B-US | BLACK | XR100, Rail 168" (14 Feet) - US | | 9.55 lbs. |

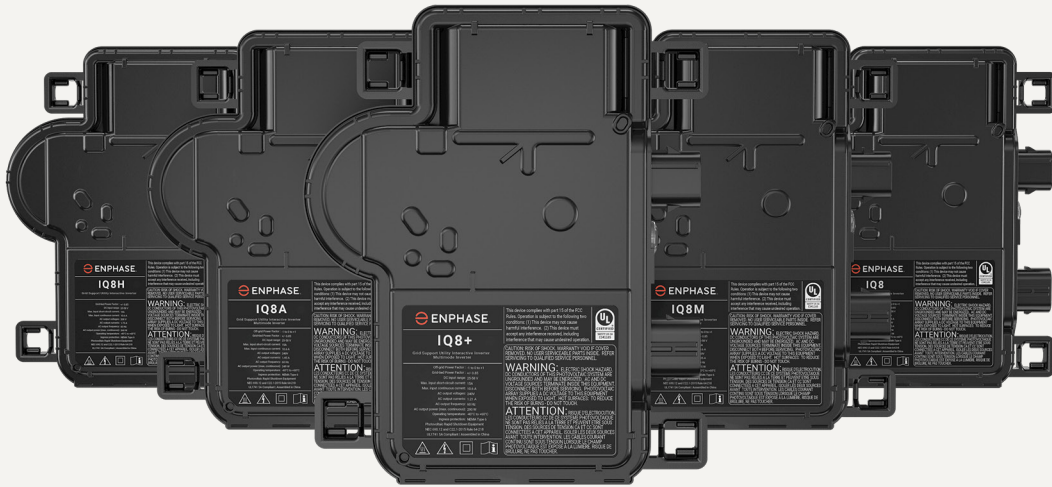


| RAIL SECTION PROPERTIES | |
|----------------------------|-----------------------|
| PROPERTY | VALUE |
| TOTAL CROSS-SECTIONAL AREA | 0.582 in ² |
| SECTION MODULUS (X-AXIS) | 0.297 in ³ |
| MOMENT OF INTERIA (X-AXIS) | 0.390 in ⁴ |
| MOMENT OF INTERIA (Y-AXIS) | 0.085 in ⁴ |
| TORSIONAL CONSTANT | 0.214 in ³ |
| POLAR MOMENT OF INERTIA | 0.126 in ⁴ |

APPROVED MATERIALS:
 6005-T6, 6005A-T61, 6105-T5, 6N01-T6
 (34,000 PSI YIELD STRENGTH MINIMUM)

*DOMESTIC IDENTIFIER PRESENT IN EITHER LOCATION OF RAIL

| PART NUMBER | FINISH | DESCRIPTION / LENGTH | MATERIAL | WEIGHT |
|----------------|--------|---------------------------------|------------------------|-----------|
| XR-100-168M-US | MILL | XR100, Rail 168" (14 Feet) - US | 6000 - SERIES ALUMINUM | 9.55 lbs. |
| XR-100-168B-US | BLACK | XR100, Rail 168" (14 Feet) - US | | 9.55 lbs. |



IQ8 Series Microinverters

Our newest IQ8 Microinverters are the industry's first microgrid-forming, software-defined microinverters with split-phase power conversion capability to convert DC power to AC power efficiently. The brain of the semiconductor-based microinverter is our proprietary application-specific integrated circuit (ASIC) which enables the microinverter to operate in grid-tied or off-grid modes. This chip is built in advanced 55nm technology with high speed digital logic and has super-fast response times to changing loads and grid events, alleviating constraints on battery sizing for home energy systems.



Part of the Enphase Energy System, IQ8 Series Microinverters integrate with the Enphase IQ Battery, Enphase IQ Gateway, and the Enphase App monitoring and analysis software.



IQ8 Series Microinverters redefine reliability standards with more than one million cumulative hours of power-on testing, enabling an industry-leading limited warranty of up to 25 years.



Connect PV modules quickly and easily to IQ8 Series Microinverters using the included Q-DCC-2 adapter cable with plug-n-play MC4 connectors.



IQ8 Series Microinverters are UL Listed as PV Rapid Shut Down Equipment and conform with various regulations, when installed according to manufacturer's instructions.

Easy to install

- Lightweight and compact with plug-n-play connectors
- Power Line Communication (PLC) between components
- Faster installation with simple two-wire cabling

High productivity and reliability

- Produce power even when the grid is down*
- More than one million cumulative hours of testing
- Class II double-insulated enclosure
- Optimized for the latest high-powered PV modules

Microgrid-forming

- Complies with the latest advanced grid support**
- Remote automatic updates for the latest grid requirements
- Configurable to support a wide range of grid profiles
- Meets CA Rule 21 (UL 1741-SA) requirements

IQ8 Series Microinverters

| INPUT DATA (DC) | | IQ8-60-2-US | IQ8PLUS-72-2-US | IQ8M-72-2-US | IQ8A-72-2-US | IQ8H-240-72-2-US | IQ8H-208-72-2-US ¹ |
|--|------|---|--|--------------|--------------|------------------|-------------------------------|
| Commonly used module pairings ² | W | 235 – 350 | 235 – 440 | 260 – 460 | 295 – 500 | 320 – 540+ | 295 – 500+ |
| Module compatibility | | 60-cell/120 half-cell | 60-cell/120 half-cell, 66-cell/132 half-cell and 72-cell/144 half-cell | | | | |
| MPPT voltage range | V | 27 – 37 | 29 – 45 | 33 – 45 | 36 – 45 | 38 – 45 | 38 – 45 |
| Operating range | V | 25 – 48 | 25 – 58 | | | | |
| Min/max start voltage | V | 30 / 48 | 30 / 58 | | | | |
| Max input DC voltage | V | 50 | 60 | | | | |
| Max DC current ³ [module Isc] | A | 15 | | | | | |
| Overvoltage class DC port | | II | | | | | |
| DC port backfeed current | mA | 0 | | | | | |
| PV array configuration | | 1x1 Ungrounded array; No additional DC side protection required; AC side protection requires max 20A per branch circuit | | | | | |
| OUTPUT DATA (AC) | | IQ8-60-2-US | IQ8PLUS-72-2-US | IQ8M-72-2-US | IQ8A-72-2-US | IQ8H-240-72-2-US | IQ8H-208-72-2-US ¹ |
| Peak output power | VA | 245 | 300 | 330 | 366 | 384 | 366 |
| Max continuous output power | VA | 240 | 290 | 325 | 349 | 380 | 360 |
| Nominal (L-L) voltage/range ⁴ | V | 240 / 211 – 264 | | | | | 208 / 183 – 250 |
| Max continuous output current | A | 1.0 | 1.21 | 1.35 | 1.45 | 1.58 | 1.73 |
| Nominal frequency | Hz | 60 | | | | | |
| Extended frequency range | Hz | 50 – 68 | | | | | |
| AC short circuit fault current over 3 cycles | Arms | 2 | | | | | 4.4 |
| Max units per 20 A (L-L) branch circuit ⁵ | | 16 | 13 | 11 | 11 | 10 | 9 |
| Total harmonic distortion | | <5% | | | | | |
| Overvoltage class AC port | | III | | | | | |
| AC port backfeed current | mA | 30 | | | | | |
| Power factor setting | | 1.0 | | | | | |
| Grid-tied power factor (adjustable) | | 0.85 leading – 0.85 lagging | | | | | |
| Peak efficiency | % | 97.5 | 97.6 | 97.6 | 97.6 | 97.6 | 97.4 |
| CEC weighted efficiency | % | 97 | 97 | 97 | 97.5 | 97 | 97 |
| Night-time power consumption | mW | 60 | | | | | |
| MECHANICAL DATA | | | | | | | |
| Ambient temperature range | | –40°C to +60°C (-40°F to +140°F) | | | | | |
| Relative humidity range | | 4% to 100% (condensing) | | | | | |
| DC Connector type | | MC4 | | | | | |
| Dimensions (HxWxD) | | 212 mm (8.3”) x 175 mm (6.9”) x 30.2 mm (1.2”) | | | | | |
| Weight | | 1.08 kg (2.38 lbs) | | | | | |
| Cooling | | Natural convection – no fans | | | | | |
| Approved for wet locations | | Yes | | | | | |
| Pollution degree | | PD3 | | | | | |
| Enclosure | | Class II double-insulated, corrosion resistant polymeric enclosure | | | | | |
| Environ. category / UV exposure rating | | NEMA Type 6 / outdoor | | | | | |
| COMPLIANCE | | | | | | | |
| Certifications | | CA Rule 21 (UL 1741-SA), UL 62109-1, UL1741/IEEE1547, FCC Part 15 Class B, ICES–0003 Class B, CAN/CSA-C22.2 NO. 107.1-01 This product is UL Listed as PV Rapid Shut Down Equipment and conforms with NEC 2014, NEC 2017, and NEC 2020 section 690.12 and C22.1-2018 Rule 64-218 Rapid Shutdown of PV Systems, for AC and DC conductors, when installed according to manufacturer’s instructions. | | | | | |

(1) The IQ8H-208 variant will be operating in grid-tied mode only at 208V AC. (2) No enforced DC/AC ratio. See the compatibility calculator at <https://link.enphase.com/module-compatibility> (3) Maximum continuous input DC current is 10.6A (4) Nominal voltage range can be extended beyond nominal if required by the utility. (5) Limits may vary. Refer to local requirements to define the number of microinverters per branch in your area.