

CITY OF YAKIMA HISTORIC PRESERVATION COMMISSION

Date: June 25, 2025 Time: 5:30 p.m Place: City Hall Council Chambers Staff: Connor Kennedy, Associate Planner

| I. | Call to Order | Commission Chair |
|-------|---|------------------|
| II. | Roll Call | Staff Liaison |
| III. | Approval of Meeting Minutes from 3/13/25 | Commission Chair |
| IV. | Audience Participation | Commission Chair |
| V. | Audience Participation | Commission Chair |
| VI. | New Business i. Certificate of Appropriateness – 3103 W. Yakima Ave | Staff Liaison |
| VII. | Old Business | |
| VIII. | Other Business i. Member Terms | Commission Chair |

IX. Adjournment

Adjourn to next scheduled Historic Preservation Commission meeting July 23, 2025, at 5:30pm in the Council Chambers.



CITY OF YAKIMA HISTORIC PRESERVATION COMMISSION Council Chambers, City Hall

Date: March 13, 2025 Time: 5:15 P.M. Place: Council Chambers, City Hall, 129, N. 2nd St. Staff: Connor Kennedy, Associate Planner/ Historic Preservation Liaison

I. Call to Order

Meeting was called to order at approximately 5:20 P.M.

II. Roll Call

Commissioners Hall, Bussey, King, and Mann were present, with Commissioner Edmondson absent.

- III. Staff Announcements None.
- IV. Audience Participation

None.

V. New Business: Certificate of Appropriateness Hearing

5 S. Naches Ave

- Connor Kennedy provided details for a proposal to add solar panels to the roof of an auxiliary building on a historic property .
- Commissioner Mann noted that the church is the oldest in the City.
- Commissioner Bussey noted that he felt it was a good proposal.
- Commissioner King agreed that the proposal looked good and it was a great idea and addressed a community need.
- Chair Hall provided a summary of the approval recommendations.
- Commissioner Bussey makes a motion to approve the certificate of appropriateness, which passed unanimously.

VI. Other Business

Letter in support of Yakima Valley Trolleys

• Commissioner Bussey provided a summary of a proposed letter in support of the Yakima Valley Trolleys

Commission Members

Cynthia Hall • Clayton Bussey • Paul Edmondson • Joe Mann • Dawn King

- Commission members shared that they felt the letter was great and that they did not need any further information on its contents or purpose.
- Commissioner Bussey moves to send a letter of support as a commission to the Yakima Valley Trolleys organization based on the draft that was shared in the meeting. The motion passes unanimously.

VII. Adjournment

A motion to adjourn to April 23, 2025 was passed with a unanimous vote. The meeting was adjourned at approximately 5:55 P.M.

HPR#002.25



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Yakima Historic Preservation Commission

Application for Certificate of Appropriateness

| Date Submitted: 5/20/2025 1:06 PM PDT |
|---|
| Building/Property Name: |
| Building/Property Address: 3103 w Yakima Ave , Yakima, WA 98902 |
| Historic District (if applicable): Barge-Chestnut District |
| Applicant's Name: Freedom Forever Washington, LLC - Stephanie Hawkins |
| Applicant's Address: 6528 s 216th St, Kent, WA 98032, USA |
| Applicant's Telephone: 206-929-6328 |
| Applicant's Email: permitseattle@freedomforever.com |
| Property Owner's Name (if different from applicant): salvador Gutierrez |
| Property Owner's Address: 3103 w Yakima Ave , Yakima, wa 98902 |
| Property Owner's Signature: Salvador Guiurry (The application must be signed by the property owner to be processed. By signing this application, the owner confirms that the application has been reviewed and approves of the proposed scope of work.) |

A Certificate of Appropriateness is requested for:

(Check one type of review)

| | Type I Administrative | Review (for repairs and replacements-in-kind); or |
|--|-----------------------|---|
|--|-----------------------|---|

Type II Commission Review for the following proposed work (check all that apply):

| \square | Exterior alteration | Interior alteration | Signage |
|-----------|----------------------------------|---------------------|---------|
| | New construction (addition or ne | w building) | |

| | Preliminary | Approval (for | ⁻ large projects | that may | require phased | approvals) |
|--|-------------|---------------|-----------------------------|----------|----------------|------------|
|--|-------------|---------------|-----------------------------|----------|----------------|------------|

Demolition/Waiver of Certificate of Appropriateness

Other (please describe): Solar - Roof Mounted

Please describe the proposed scope of work in detail below or attach a description:

solar system installation

7.695kW Solar System Installation - Roof Mounted on Main Dwelling and Detached Structure -(N) 200A SolarEdge Backup Interface -(N) Solaredge Energy Bank

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Application Checklist:

Application form

Property owner consent/signature

Scaled drawings depicting proposed work

Clear photographs of existing conditions of the building, object, site or structure

Description of the proposed scope of work

Samples of replacement materials

Submit completed application and supporting materials to:

Department of Community and Economic Development 129 North Second Street Yakima, WA 98901

Please note: The Yakima Historic Preservation Commission meets on the fourth Wednesday of each month. Completed applications are due four weeks prior to the meeting date you are targeting, so please plan accordingly. Incomplete or missing information will delay consideration of your application.



Freedom Forever Planset Revision Letter 5/16/2025 REV #1

Attn. City of Yakima (WA):

The changes outlined in Revision Details have been applied to the plans corresponding to the following customer:

SALVADOR GUTIERREZ 3103 W YAKIMA AVE

Revision Details:

REV 1

One additional solar module added to the project bringing the total to 20. Optimizers changed due to string size capability. The additional module will be shown on the main structure of the home.

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All corresponding changes are notated on the plans by revision clouds.

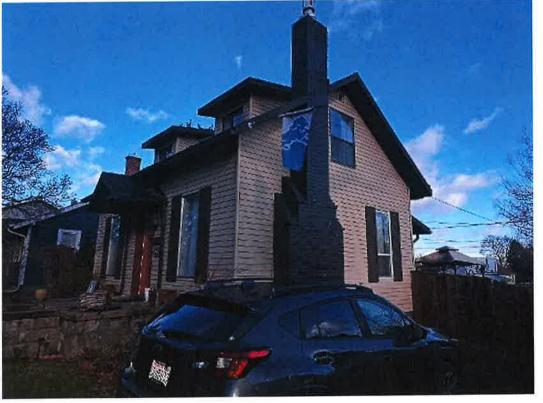
Thank you for your time in reviewing these plans. Please reach out if you have any additional questions or concerns.

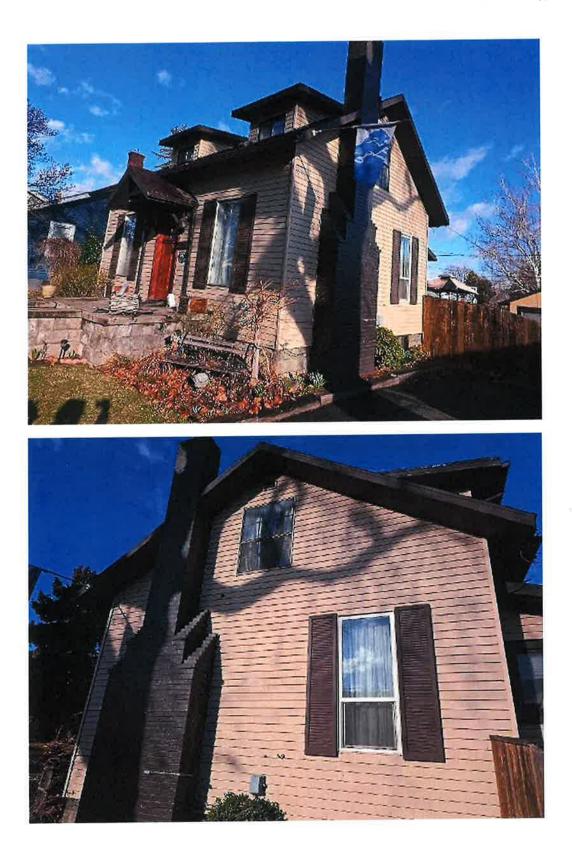
Construction Engineering Freedom Forever engineering@freedomforever.com



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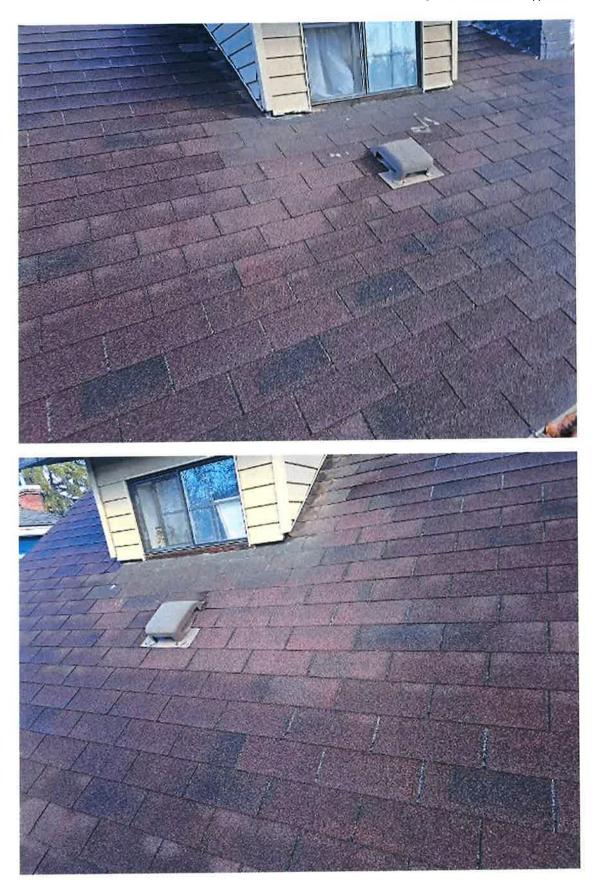




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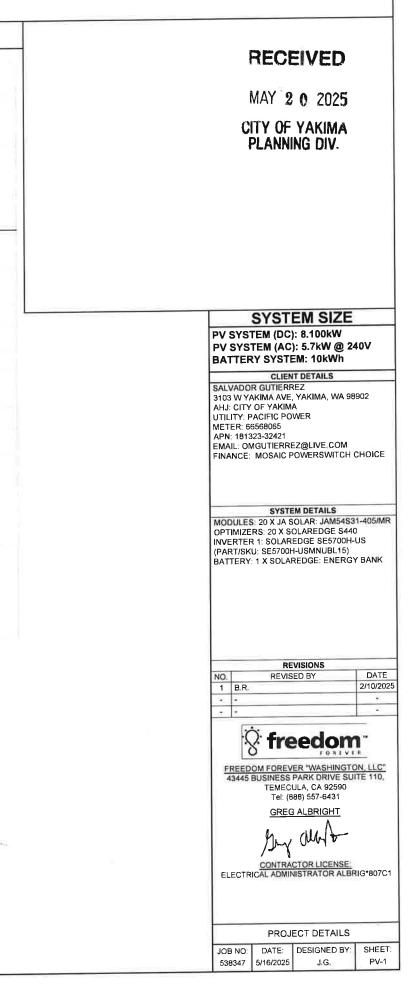
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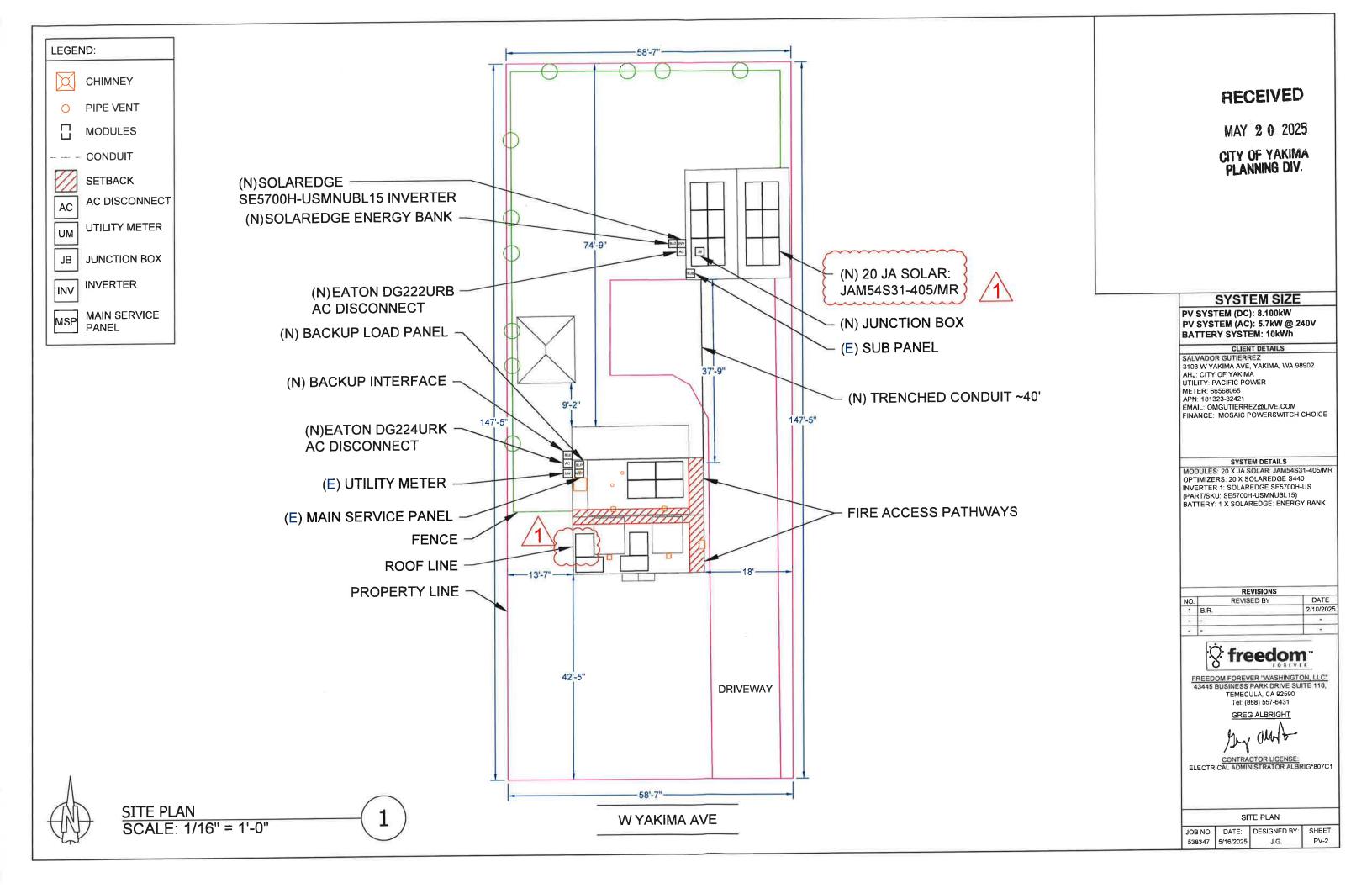
Detached Structure:

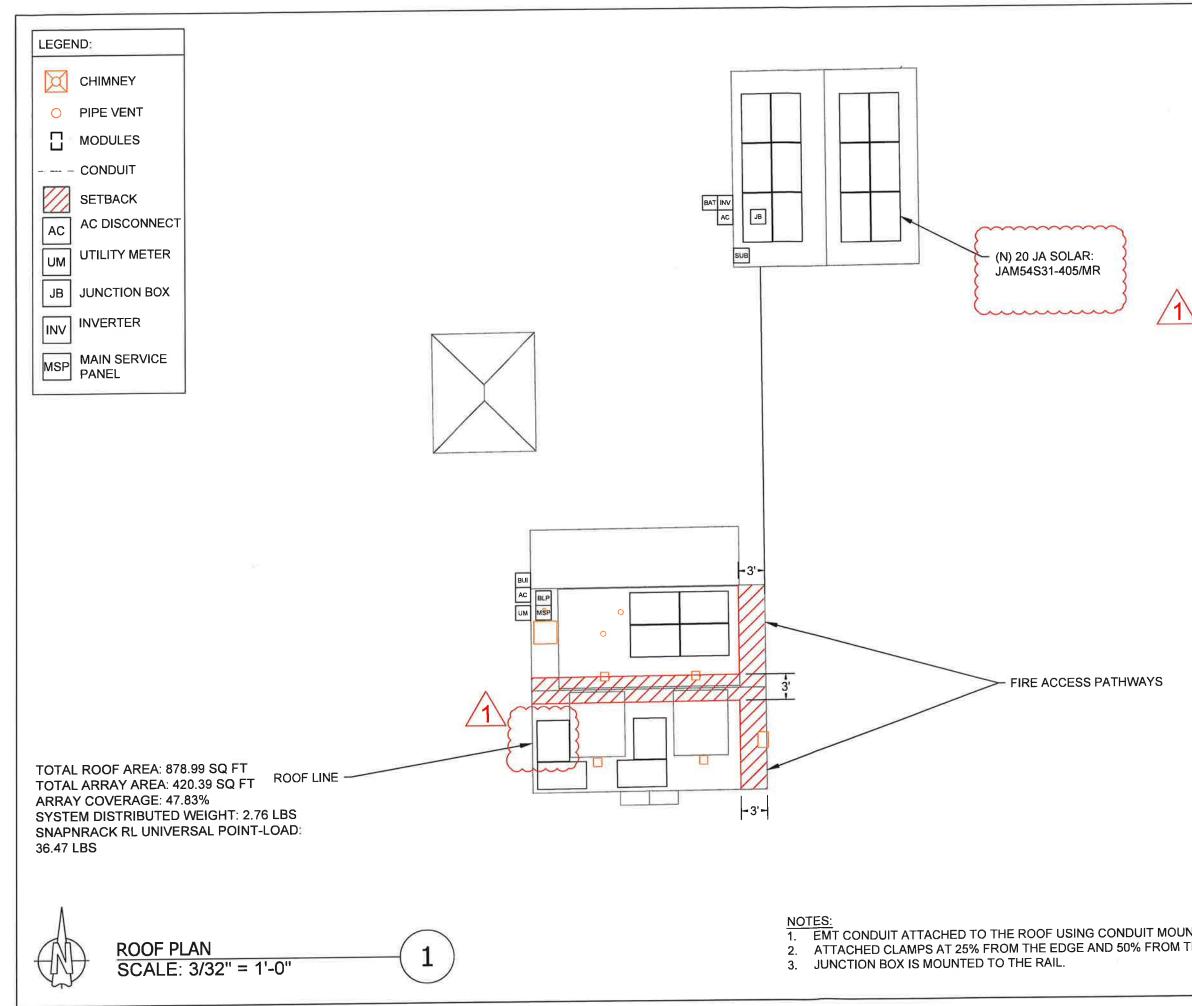


8.100kW DC ROOF MOUNT PHOTOVOLTAIC SYSTEM

| CODES: | | CONSTRUCTION NOTES: |
|------------------|---|--|
| 2021 INTERNATIO | O INSTALLATION COMPLIES WITH THE FOLLOWING: ONAL BUILDING CODE | CONDUIT AND CONDUCTOR SPECIFICATIONS ARE BASED ON MINIMUM CODE REQUIREMENTS AND ARE NOT MEANT TO LIMIT UP-SIZING AS REQUIRED BY FIELD CONDITIONS. |
| 2021 INTERNATIO | ONAL RESIDENTIAL CODE ONAL FIRE CODE ONAL ENERGY CONSERVATION CODE ONAL EXISTING BUILDING CODE | ALL SOLAR ENERGY SYSTEM EQUIPMENT SHALL BE SCREENED TO THE MAXIMUM EXTENT POSSIBLE AND SHALL BE PAINTED A COLOR SIMILAR TO THE SURFACE UPON WHICH THEY ARE MOUNTED. |
| 2021 INTERNATIO | ONAL FUEL GAS CODE ONAL MECHANICAL CODE ONAL PLUMBING CODE | MODULES SHALL BE TESTED , LISTED AND INDENTIFIED WITH FIRE CLASSIFICATION IN ACCORDANCE WITH UL 2703. SMOKE AND CARBON MONOXIDE ALARMS ARE REQUIRED PER SECTION R314 AND 315 TO BE VERIFIED AND INSPECTED BY INSPECTOR IN THE FIELD. |
| 2023 NATIONAL | ELECTRICAL CODE ′ CITY OF YAKIMA | DIG ALERT (811) TO BE CONTACTED AND COMPLIANCE WITH EXCAVATION SAFETY PRIOR TO ANY EXCAVATION TAKING PLACE |
| | | PHOTOVOLTAIC SYSTEM GROUND WILL BE TIED INTO EXISTING GROUND AT MAIN SERVICE FROM DC DISCONNECT/INVERTER AS PER 2023 NEC SEC 250.166(A). |
| | | SOLAR PHOTOVOLTAIC SYSTEM EQUIPMENT WILL BE INSTALLED IN ACCORDANCE WITH REQUIREMENTS OF ART. 690 OF THE 2023 NEC |
| VICINITY MA | P: | THE MAIN SERVICE PANEL WILL BE EQUIPPED WITH A GROUND ROD OR UFER |
| | | UTILITY COMPANY WILL BE NOTIFIED PRIOR TO ACTIVATION OF THE SOLAR PV SYSTEM |
| W. W. B. Har | | |
| - Q _ Q | Sharon Way | SOLAREDGE OPTIMIZERS ARE LISTED TO IEC 62109-1 (CLASS II SAFETY) AND UL 1741 STANDARDS |
| ayler Way | | INSTALL CREW TO VERIFY ROOF STRUCTURE PRIOR TO COMMENCING WORK. EMT CONDUIT ATTACHED TO THE ROOF USING CONDUIT MOUNT. |
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| Avenue | Wosi Chestnut Avenue West Chestnut Avenue | |
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| TABLE OF C | ONTENTS: | |
| PV-1 | PROJECT DETAILS | |
| PV-2 | SITE PLAN | |
| PV-2A | ROOF PLAN WITH MODULES LAYOUT | |
| PV-2B | ARRAY DETAILS | |
| PV-3 | MOUNTING DETAILS | |
| PV-4 | THREE LINE DIAGRAM | |
| PV-5 | CONDUCTOR CALCULATIONS | - |
| PV-6 | EQUIPMENT & SERVICE LIST | |
| PV-7 | LABELS | |
| PV-7A | SITE PLACARD | |
| PV-8 | OPTIMIZER CHART | |
| PV-9 | SAFETY PLAN | THIS SYSTEM DESIGNED WITH: |
| PV-10 | SAFETY PLAN | |
| APPENDIX | MANUFACTURER SPECIFICATION SHEETS | WIND EXPOSURE: C SNOW LOAD: 30 |
| | | |
| | | |







| | RECEIVED MAY 2 0 2025 CITY OF YAKIMA PLANNING DIV |
|---------------------------|---|
| | SYSTEM SIZE PV SYSTEM (DC): 8.100kW PV SYSTEM (AC): 5.7kW @ 240V BATTERY SYSTEM: 10kWh |
| | CLIENT DETAILS SALVADOR GUTIERREZ 3103 W YAKIMA AVE, YAKIMA, WA 96902 AHJ: CITY OF YAKIMA UTILITY: PACIFIC POWER METER: 66568065 APN: 181323-32421 EMAIL: OMGUTIERREZ@LIVE.COM FINANCE: MOSAIC POWERSWITCH CHOICE |
| | SYSTEM DETAILS MODULES: 20 X JA SOLAR: JAM54S31-405/MR OPTIMIZERS: 20 X SOLAREDGE S440 INVERTER 1: SOLAREDGE SE5700H-US (PART/SKU: SE5700H-USMNUBL15) BATTERY: 1 X SOLAREDGE: ENERGY BANK |
| | REVISIONS NO. REVISED BY DATE 1 B.R. 2/10/2025 - - - - - |
| | FREEDOM FOREVER "WASHINGTON, LLC" 43445 BUSINESS PARK DRIVE SUITE 110, TEMECULA, CA 92590 Tel: (868) 557-6431 GREG ALBRIGHT |
| NTS | CONTRACTOR LICENSE: ELECTRICAL ADMINISTRATOR ALBRIG*807C1 |
| THE CENTER OF THE MODULES | ROOF PLAN WITH MODULES LAYOUT JOB NO: DATE: DESIGNED BY: SHEET: 538347 5/16/2025 J.G. PV-2A |

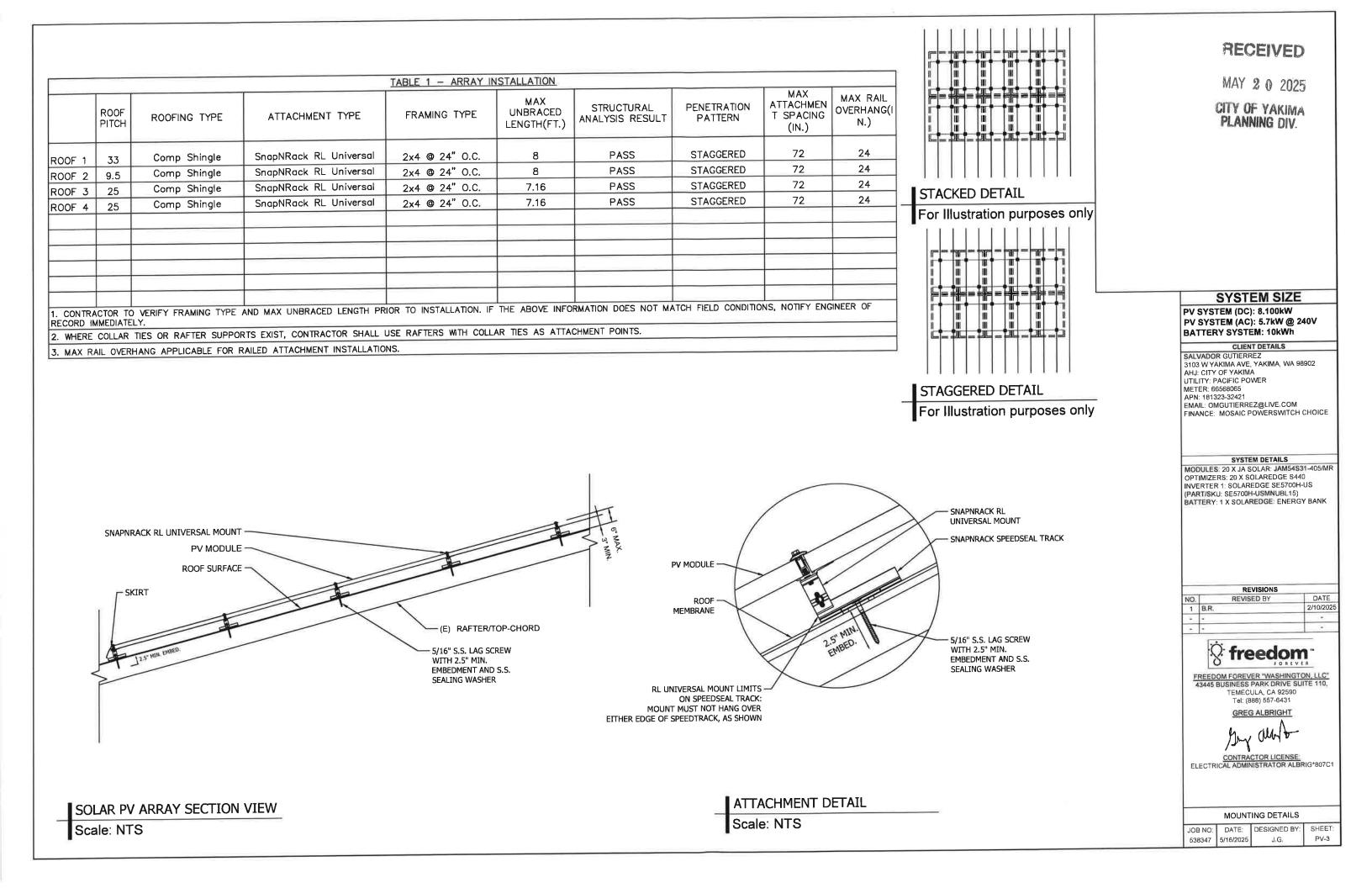
ROOF DETAILS:

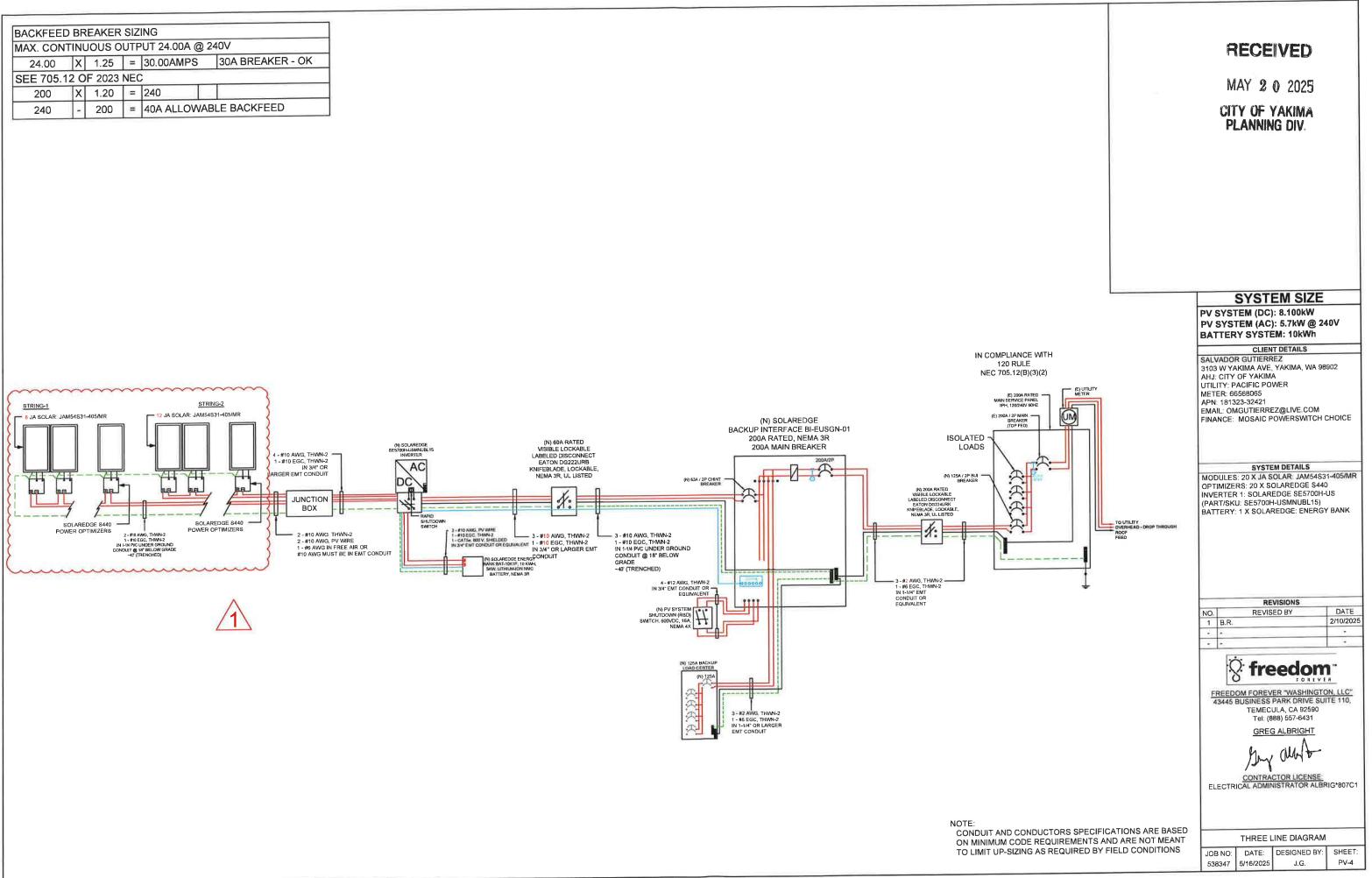
TOTAL ROOF AREA: 878.99 SQ FT TOTAL ARRAY AREA: 420.39 SQFT ARRAY COVERAGE: 47.83% SYSTEM DISTRIBUTED WEIGHT: 2.76 LBS SNAPNRACK RL UNIVERSAL POINT-LOAD: 36.47 LBS



| | | ROOF AREA | STATEMENT | | |
|--------|------------|---|---|---|---|
| | ROOF PITCH | ARRAY PITCH | AZIMUTH | ROOF AREA | ARRAY AREA |
| 4 | | 33 | 179.4 | 266.31 SQ FT | 84.08 SQ FT |
| former | | 9.5 | 359.4 | 243.32 SQ FT | 84.08 SQ FT |
| 6 | | | 89.4 | 266.09 SQ FT | 126.12 SQ F1 |
| | | | 269.4 | 266.09 SQ FT | 126.12 SQ FT |
| | | | | SQ FT | SQ FT |
| | | | | SQ FT | SQ FT |
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| SYSTEM (AC): 5.7KW @ 240V BATEERY SYSTEM: 10KWh CLIENT DETAILS SALVADOR GUTLERREZ 3103 WYAKIMA AVE, YAKIMA, WA 98902 AHL: CITY OF YAKIMA UTO FY VAKIMA UTO FY VAKIMA VA 98902 ATE UTO FY VAKIMA VA 98902 UTO FY VAKIMA VA 98902 UTO FY VAKIMA VA 98902 UTO FY VAKIMA VA 98902 <td colspan<="" th=""><th>RECEIVED MAY 2 0 2025 City of Yakima Planning Div.</th></td> | <th>RECEIVED MAY 2 0 2025 City of Yakima Planning Div.</th> | RECEIVED MAY 2 0 2025 City of Yakima Planning Div. |
|--|--|---|
| FINANCE: MOSAIC POWERSWITCH CHOICE | PV SYSTEM (DC): 8.100kW PV SYSTEM (AC): 5.7kW @ 240V BATTERY SYSTEM: 10kWh CLIENT DETAILS SALVADOR GUTIERREZ 3103 W YAKIMA AVE, YAKIMA, WA 98902 AHJ: CITY OF YAKIMA UTILITY: PACIFIC POWER METER: 66568065 APN: 181323-32421 | |
| NO. REVISED BY DATE 1 B.R. 2/10/2025 - - - - - | SYSTEM DETAILS MODULES: 20 X JA SOLAR: JAM54S31-405/MR OPTIMIZERS: 20 X SOLAREDGE S440 INVERTER 1: SOLAREDGE SE5700H-US (PART/SKU: SE5700H-USMNUBL15) | |
| | NO. REVISED BY DATE 1 B.R. 2/10/2025 - - - - - | |



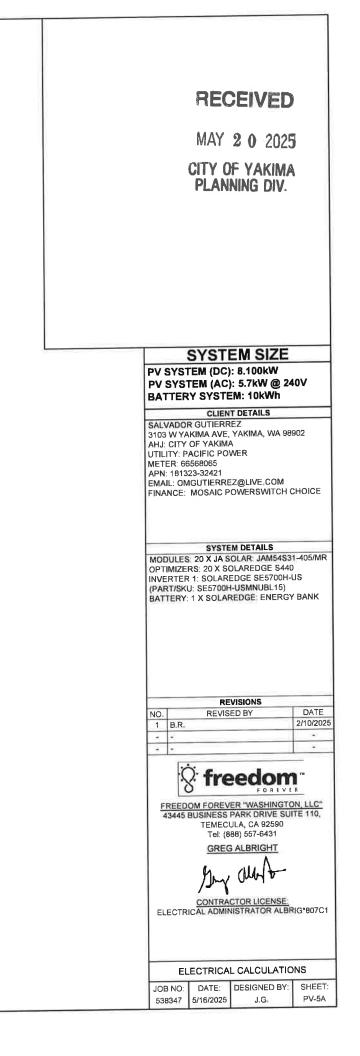


| [| | | | | WIRE | SCHEDL | JLE | | | | |
|--------------|----|------------------|---------|-----------------------|-------------------|---------------------|---|---|--|--|---|
| RACEWAY # | | EQU | JIPMENT | | CONDUCTOR QTY. | AWG WIRE SIZE | STARTING ALLOWABLE AMPACITY @ 90°C 310.15(B)(16) | STARTING CURRENT APPLIED TO CONDUCTORS IN RACEWAY | TEMPERATURE CORRECTION FACTOR 310.15(B)(2)(a) | ADJUSTMENT FACTOR FOR MORE THAN 3 CONDUCTORS 310.15(B)(3)(a) | ADJUSTE CONDUCT AMPACIT @ 90°C |
| 1 | DC | MODULE | ТО | OPTIMIZER | 2 | 10 | 40 | 13.88 | 0.91 | 1 | 36.40 |
| 2 | DC | OPTIMIZER | то | JUNCTION BOX | 2 | 10 | 40 | 15.00 | 0.91 | 1 | 36.40 |
| 3 | DC | JUNCTION BOX | то | INVERTER | 4 | 10 | 40 | 15.00 | 0.91 | 0.8 | 29.12 |
| 4 | DC | ENERGY BANK | ТО | INVERTER | 2 | 10 | 40 | 16.00 | 0.91 | 1 | 36.40 |
| 5 | AC | INVERTER | ТО | AC DISCONNECT | 3 | 10 | 40 | 24.00 | 0.91 | 1 | 36.40 |
| 6 | AC | BACKUP INTERFACE | то | BACKED UP LOADS PANEL | 3 | 2 | 130 | 92.20 | 0.91 | 1 | 118.30 |
| 7 | AC | AC DISCONNECT | то | BACKUP INTERFACE | 3 | 10 | 40 | 24.00 | 0.91 | 1 | 36.40 |
| 8 | AC | BACKUP INTERFACE | то | AC DISCONNECT | 3 | 2 | 130 | 92.20 | 0.91 | 1 | 118.30 |
| 9 | AC | AC DISCONNECT | ТО | POI | 3 | 2 | 130 | 92.20 | 0.91 | 1 | 118.30 |
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CONDUCTOR AMPACITY CALCULATIONS IN ACCORDANCE WITH NEC 690.8.

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| | | CITY OF YAKIMA PLANNING DIV. |
| | | |
| | | SYSTEM SIZE |
| | | PV SYSTEM (DC): 8.100kW PV SYSTEM (AC): 5.7kW @ 240V BATTERY SYSTEM: 10kWh |
| | MAXIMUM | CLIENT DETAILS SALVADOR GUTIERREZ |
| TOR | CURRENT | 3103 W YAKIMA AVE, YAKIMA, WA 98902 AHJ: CITY OF YAKIMA |
| ITY | APPLIED TO CONDUCTORS | UTILITY: PACIFIC POWER |
| с | IN RACEWAY | APN: 181323-32421 EMAIL: OMGUTIERREZ@LIVE.COM |
|) | 17.34 | FINANCE: MOSAIC POWERSWITCH CHOICE |
|) | 18.75 | |
| 2 | 18.75 | |
|) | 20.00 | SYSTEM DETAILS MODULES: 20 X JA SOLAR: JAM54S31-405/MR |
|) | 30.00 | OPTIMIZERS: 20 X SOLAREDGE S440 INVERTER 1: SOLAREDGE SE5700H-US |
| 0 | 115.25 | (PART/SKU: SE5700H-USMNUBL15) BATTERY: 1 X SOLAREDGE: ENERGY BANK |
|) | 30.00 | - |
| 0 | 115.25 115.25 | - |
| 0 | 110.20 | - |
| | | REVISIONS |
| | | 1 B.R. 2/10/2025 |
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| | | |
| | | FREEDOM FOREVER, "WASHINGTON, LLC" 43445 BUSINESS PARK DRIVE SUITE 110, TEMECULA, CA 92590 |
| | | Tel: (888) 557-6431 |
| | | |
| | | Buy auto |
| | | ELECTRICAL ADMINISTRATOR ALBRIG*807C1 |
| | | 1 |
| | | CONDUCTOR CALCULATIONS |
| | | JOB NO: DATE: DESIGNED BY: SHEET: |
| | | 538347 5/16/2025 J.G. PV-5 |
| | | |

Missing or invalid reference File: ..\Deliverables\538347_Salvador Gutierrez_Panel_Schedule.pdf Sheet: 1



OCPD SIZES:

SERVICE LIST:

| 63A BREAKER | |
|--------------|--|
| 125A BREAKER | |
| 125A BREAKER | |
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TRENCHING

MATERIAL LIST:

| PART_NUMBER | | PART_DESCRIPTION | |
|----------------|--|---|---|
| PAC 222 203 DC | 242-10063-USA | MFG: Snap N Rack, AlphaTrack (USA), MFG SKU: 242-10063-USA | 26 |
| | THE REAL PROPERTY AND A DESCRIPTION | MEG: Snap N Rack, Universal Double Portrait Skirt 83IN Black, MEG SKU: 232-02493-USA | 10 |
| | | MEG: Snap N Rack, RI, Universal Skirt Spacer 30MM, MEG SKU: 232-02532-USA | 20 |
| | | | 26 |
| | | | 40 |
| | | | 20 |
| | | MEG: Solaredge, 5.7 kW, Single Phase Energy Hub, HD Wave RGM w/ Consumption Monitoring, MFG SKU: SE5700H-USMNUBL15 | 1 |
| | | MEG: Solaredge, Cell Modern W/5 Yrs, MEG SKU: SE-CELL-B-R05-US-S-S2 | 1 |
| | | | 2 |
| | | | 1 |
| | | MEG: SolarEdge, Energy Herring III, III e energy Herring IIII, III e energy Herring III, III e energy Herring IIII e energy Herring III e energy | 1 |
| | | MEG: Wage 2 Conductor Compact Splice 10 Awa MEG SKU: 221-612 | 4 |
| | | | 20 |
| | | | 2 |
| | | MEG: Ecton Disconnect General Duty 2P. 240V 60A Non Fusible Nema 3R, MEG SKU: DG222URB | 1 |
| | | MEG. Eaton, Disconnect, General Duty, 2P, 240V, 200A, Non Eusible, Nema 3R, MEG SKU: DG224URK | 1 |
| EE-321-202 | | | 1 |
| BAT-143-000 | BAT-10K1PS0B-02 | | 200 |
| RAC-260-550 | ACC-FPV180 | | 200 |
| EA-350-585 | SGB-4 | | 3 |
| RAC-265-018 | 4011012 | | 20 |
| RAC-263-506 | 242-02168 | MFG: Snap N Rack, Sealing Washer Lag 4-1/2IN SS, MFG SKU: 242-02168 | 26 |
| | RAC-260-550 EA-350-585 RAC-265-018 | RAC-263-051-DC 232-02493-USA RAC-263-052-DC 232-02532-USA RAC-245-114-DC 242-02155-USA RAC-245-115-DC 242-02156-USA PV-110-405 JAM54S31-405/MR INV-120-575 SE5700H-USMNUBL15 ME-180-502 SE-CELL-B-R05-S-S2 EA-163-508 SECT-SPL-225A-T-20 EA-163-304 ENET-HBNP-01 EA-163-302 IAC-RBAT-USYCBL-01 EA-350-114 221-612 OPT-130-440-2 S440 RAC-260-061 JB-3 EE-321-060 DG222URB EE-321-202 DG224URK BAT-143-000 BAT-10K1PS0B-02 RAC-260-550 ACC-FPV180 EA-350-585 SGB-4 RAC-265-018 4011012 | No.220 002100232-02493-USAMFG: Snap N Rack, Universal Double Portrait Skirt 83IN Black, MFG SKU: 232-02493-USARAC-263-051-DC232-02532-USAMFG: Snap N Rack, RL Universal Skirt Spacer 30MM, MFG SKU: 232-02532-USARAC-245-114-DC242-02155-USAMFG: Snap N Rack, RL Universal Skirt Spacer 30MM, MFG SKU: 242-02156-USARAC-245-115-DC242-02156-USAMFG: Snap N Rack, RL Universal Link, MFG SKU: 242-02156-USARAC-245-115-DC242-02156-USAMFG: Solar Ads, RL Universal Link, MFG SKU: 242-02156-USANV-10405JAM54S31-405/MRMFG: Solaredge, 5.7 KW, Single Phase Energy Hub, HD Wave RGM w/ Consumption Monitoring, MFG SKU: SE5700H-USMNUBL15INV-120-575SE5700H-USMNUBL15MFG: Solaredge, 225A CT, WFG SKU: SEC-ELL-B-R05-US-S-S2EA-163-508SECT-SPL-225A-T-20MFG: Solaredge, 225A CT, MFG SKU: SECT-SPL-225A-T-20EA-163-304ENET-HBNP-01MFG: Solaredge, Earergy Net Plug-In, MFG SKU: SECT-SPL-225A-T-20EA-163-302IAC-RBAT-USYCBL-01MFG: Solaredge, Branch Connector set (include + & -), MFG SKU: IAC-RBAT-USYCBL-01EA-163-302IAC-RBAT-USYCBL-01MFG: Solaredge, H0W 60V Optimizer, MFG SKU: SEC1-612EA-350-114221-612MFG: Solaredge, 440W 60V Optimizer, MFG SKU: S440COPT-130-440-2S440MFG: Eaton, Disconnect, General Duty, 2P, 240V, 200A, Non Fusible, Nema 3R, MFG SKU: DG222URBEE-321-020DG222URBMFG: Eaton, Disconnect, General Duty, 2P, 240V, 200A, Non Fusible, Nema 3R, MFG SKU: DG222URBEF-321-020DG222URBMFG: Eaton, Disconnect, General Duty, 2P, 240V, 200A, Non Fusible, Nema 3R, MFG SKU: DG222UREBAT-104X1PS0B-02MFG: Eaton, D |

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City of Yakima Planning Div.

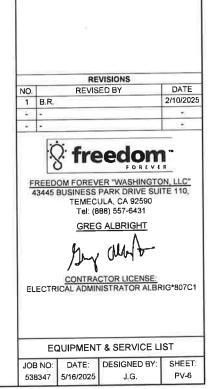
SYSTEM SIZE

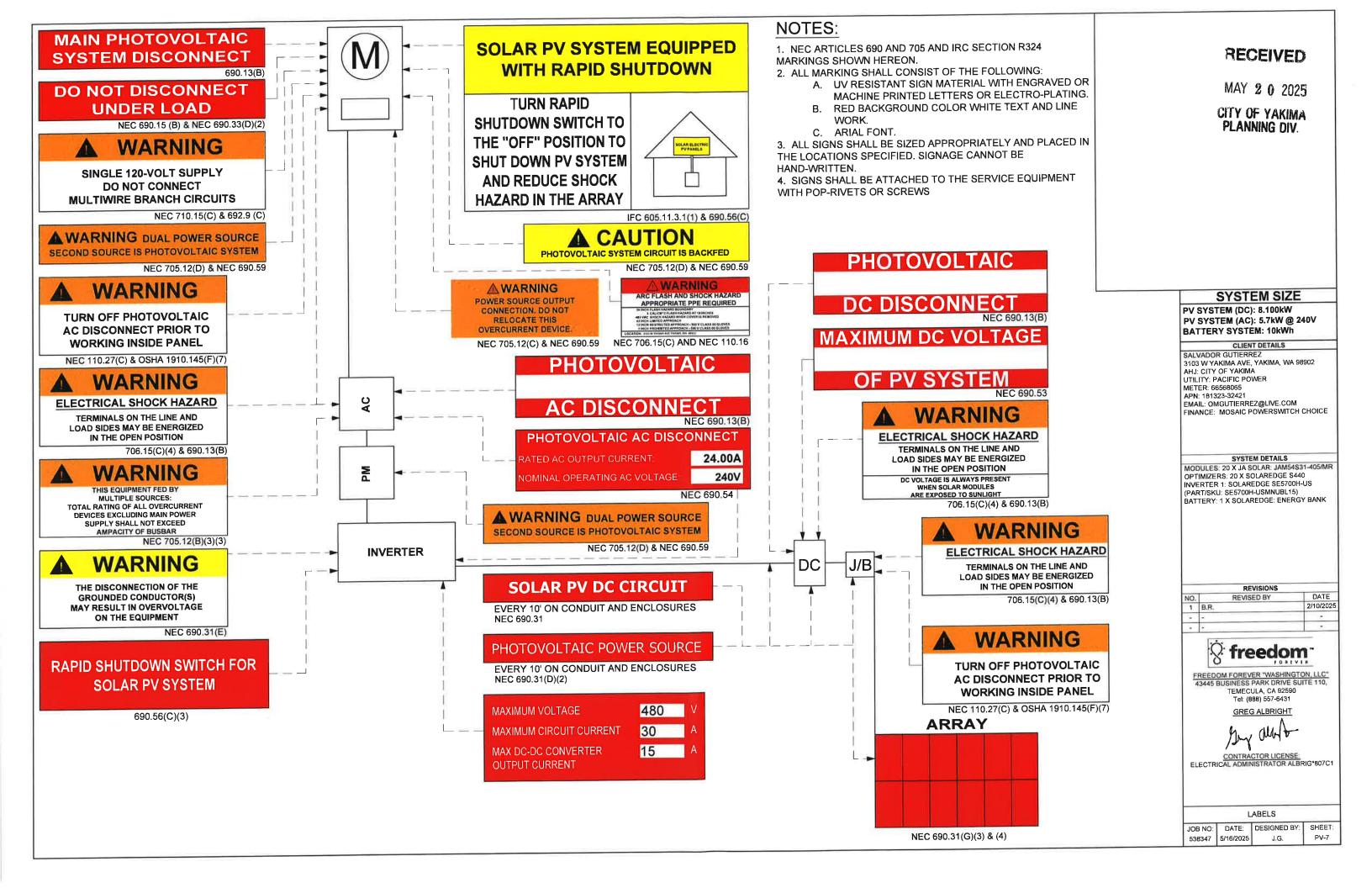
PV SYSTEM (DC): 8.100kW PV SYSTEM (AC): 5.7kW @ 240V BATTERY SYSTEM: 10kWh

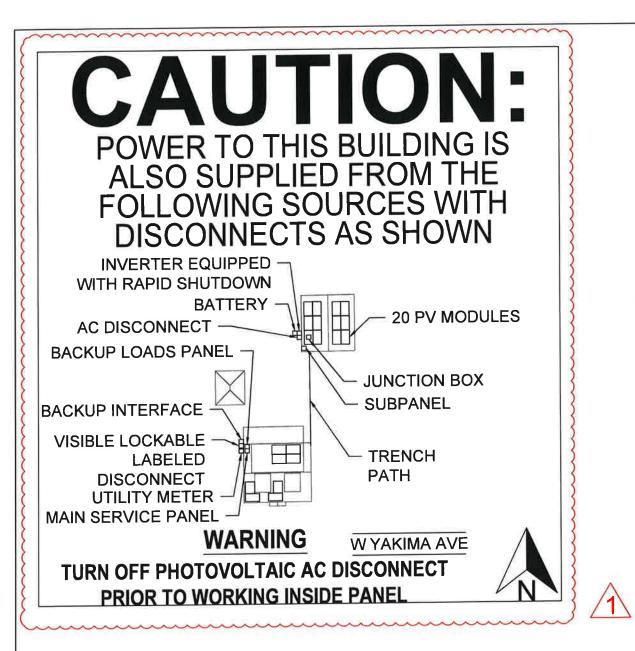
CLIENT DETAILS CLIENT DETAILS SALVADOR GUTIERREZ 3103 W YAKIMA AVE, YAKIMA, WA 98902 AHJ: CITY OF YAKIMA UTILITY: PACIFIC POWER METER: 66568005 APN: 181323-32421 EMAIL: OMGUTIERREZ@LIVE.COM FINANCE: MOSAIC POWERSWITCH CHOICE

SYSTEM DETAILS MODULES: 20 X JA SOLAR: JAM54S31-405/MR

MODULES: 20 X JA SULAR: JAM94S31400/MI OPTIMIZERS: 20 X SOLAREDGE S440 INVERTER 1: SOLAREDGE SE5700H-US (PART/SKU: SE5700H-USMNUBL15) BATTERY: 1 X SOLAREDGE: ENERGY BANK



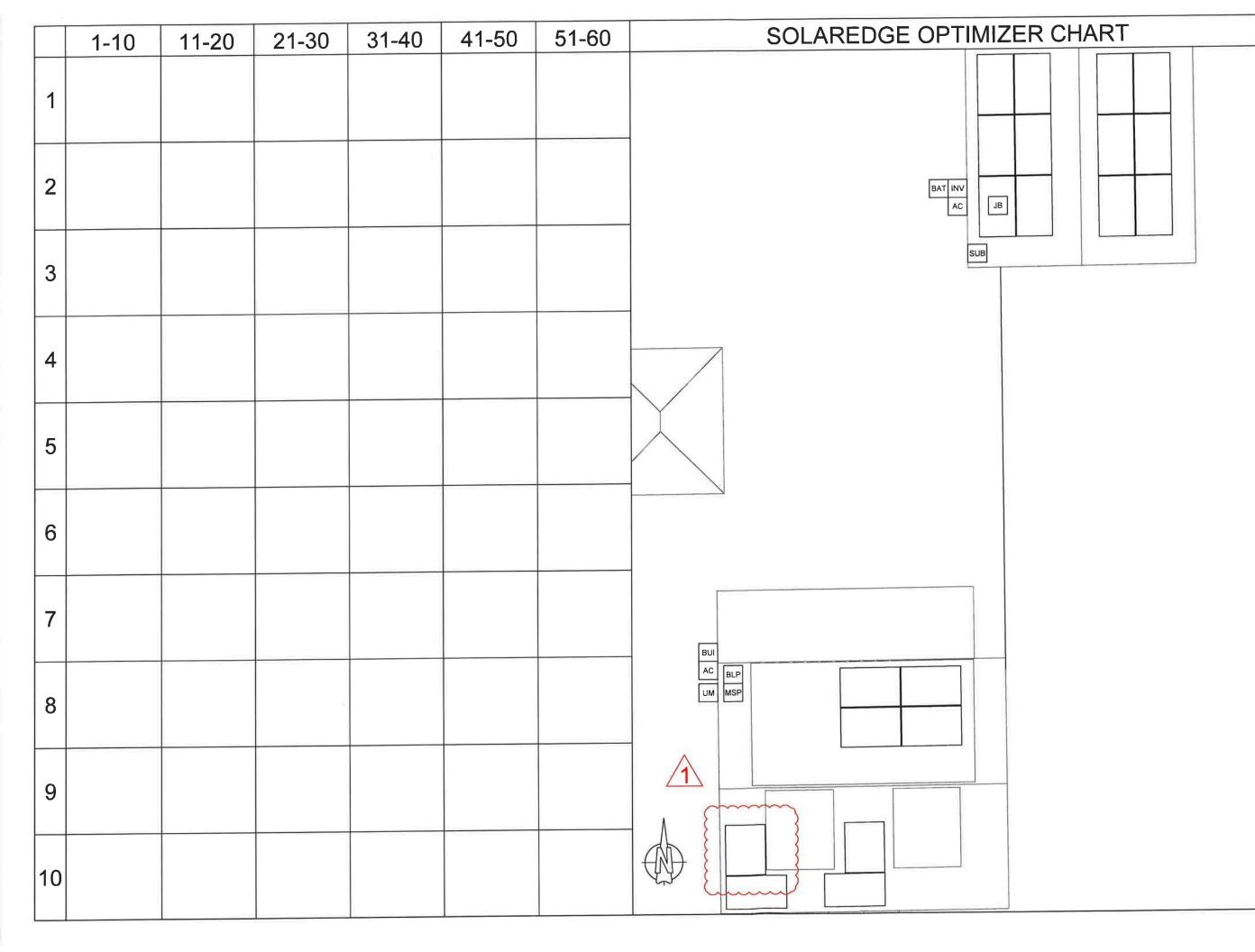




NOTES:

- 1. NEC ARTICLES 690 AND 705 AND IRC SECTION R324 MARKINGS SHOWN HEREON.
- 2. ALL MARKING SHALL CONSIST OF THE FOLLOWING:
 - A. UV RESISTANT SIGN MATERIAL WITH ENGRAVED OR MACHINE PRINTED LETTERS OR ELECTRO-PLATING.
 - B. RED BACKGROUND COLOR WHITE TEXT AND LINE WORK.
 - C. AERIAL FONT.
- 3. ALL SIGNS SHALL BE SIZED APPROPRIATELY AND PLACED IN THE LOCATIONS SPECIFIED. SIGNAGE CANNOT BE HAND-WRITTEN.
- 4. SIGNS SHALL BE ATTACHED TO THE SERVICE EQUIPMENT WITH POP-RIVETS OR SCREWS.

| RECEIVED MAY 2 0 2025 CITY OF YAKIMA PLANNING DIV |
|---|
| |
| SYSTEM SIZE |
| PV SYSTEM (DC): 8.100kW PV SYSTEM (AC): 5.7kW @ 240V BATTERY SYSTEM: 10kWh |
| CLIENT DETAILS |
| SALVADOR GUTIERREZ 3103 W YAKIMA AVE, YAKIMA, WA 98902 AHJ: CITY OF YAKIMA UTILITY: PACIFIC POWER METER: 66568065 APN: 181323-32421 EMAIL: OMGUTIERREZ@LIVE.COM FINANCE: MOSAIC POWERSWITCH CHOICE |
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| REVISIONS NO. REVISED BY DATE 1 B.R. 2/10/2025 |
| |
| FREEDOM FOREVER "WASHINGTON, LLC" 43445 BUSINESS PARK DRIVE SUITE 110, TEMECULA, CA 92590 Tel: (888) 557-6431 GREG ALBRIGHT MAN CONTRACTOR LICENSE: ELECTRICAL ADMINISTRATOR ALBRIG'807C1 |
| SITE PLACARD JOB NO: DATE: DESIGNED BY: SHEET: 538347 5/16/2025 J.G. PV-7A |



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| MAY 2 0 2025 | | | | | | | | |
| | CITY OF YAKIMA | | | | | | | |
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| _ | | SYST | EMS | IZE | | | | |
| PV : | SYS' | TEM (DC) |): 8.100k | W | | | | |
| PV : | SYS | TEM (AC |): 5.7kW | @ 24 | 10V | | | |
| | 16.00- | | T DETAIL | S | | | | |
| 3103 | WYA | | YAKIMA, | WA 98 | 902 | | | |
| UTIL | ITY: P | OF YAKIM | A WER | | | | | |
| APN | : 1813 | 5568065 23-32421 | | 2014 | | | | |
| ema Fina | IL: ON NCE: | IGUTIERRI MOSAIC P | EZ@LIVE OWERSW | COM /ITCH (| CHOICE | | | |
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| <u>NO.</u> | B.R. | RE REVIS | VISIONS ED BY | | DATE 2/10/2025 | | | |
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| FREEDOM FOREVER "WASHINGTON, LLC" 43445 BUSINESS PARK DRIVE SUITE 110, TEMECULA, CA 92590 Tel: (888) 557-6431 | | | | | | | | |
| | | | 3 ALBRIG | | | | | |
| May MAD | | | | | | | | |
| EL | ECTR | ICAL ADMIN | NISTRATO | RALBR | IIG*807C1 | | | |
| | | OPTIM | IZER CH/ | ART | | | | |
| | 3 NO: 3347 | DATE: 5/16/2025 | DESIGNE J.G. | | SHEET: PV-8 | | | |

SAFETY PLAN

INSTRUCTIONS:

- 1. USE SYMBOLS IN KEY TO MARK UP THIS SHEET.
- 2. SAFETY PLAN MUST BE MARKED BEFORE JOB STARTS PRE-PLAN
- 3. DOCUMENT ALL ADDITIONAL HAZARDS ON THIS PAGE & THE JHA SHEET

INCIDENT REPORTING:

INJURIES - CALL INJURY HOTLINE

(855) 400-7233

*If injury is life threatening, call 911 first THEN the Injury Hotlin

NON-INJURIES - USE MOBILE INCIDENT REPORTING (Auto, Property Damage, Near Miss)



| NEAREST | OCCUPATIONAL | _/INDUSTRIAL | CLINIC: |
|---------|--------------|--------------|---------|
| | | | |

NAME: _____

ADDRESS: _____

NEAREST HOSPITAL:

NAME: _____

ADDRESS: _____

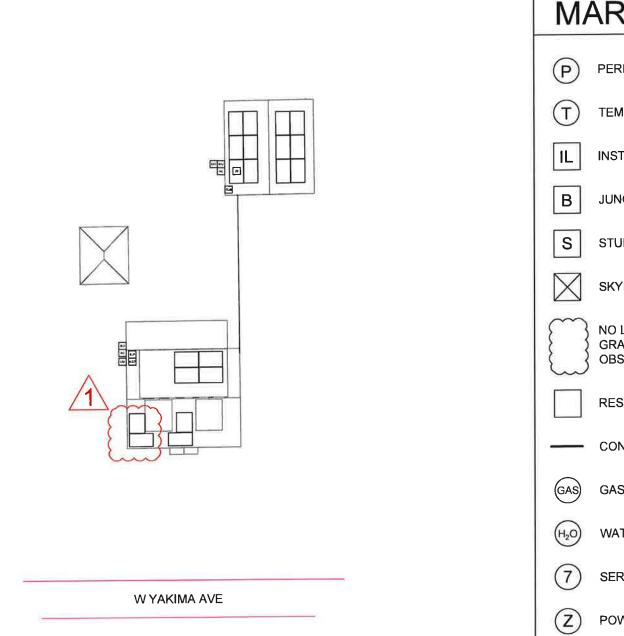
SAFETY COACH CONTACT INFORMATION:

NAME: _____

PHONE NUMBER: ______

ALL EMPLOYEES ON SITE SHALL BE MADE AWARE OF THE SAF SIGN INDICATING THAT THEY ARE AWARE OF THE HAZARDS ON PLAN FOR WORKING SAFELY.

| <u>NAME</u> | SIGNATURE |
|-------------|-----------|
| | |
| | |
| | |
| | |
| | |
| DATE: | TIME: |



| SAFETY PLAN | | | | | | | MA | RKL | JP KE | ΞY | POLICIES |
|--|---|---------|----------|------------|-----------|---------|------------|-------------------------|--------------------------------|---|---|
| BOLS IN KEY TO MARK UP THIS SHEET. LAN MUST BE MARKED BEFORE JOB STARTS AS PART OF THE IT ALL ADDITIONAL HAZARDS ON THIS PAGE & MAKE NOTES ON SHEET | | | | | | | PERMANENT | | | INSTRUCTIONS: 1. SCAN QR LINK BELOW TO ACCESS ALL FREEDOM FOREVER SAFETY POLICIES AND PROGRAMS. | |
| INJURY HOTLINE | | | | | | | | NSTALLER L | ADDER | вох | |
| eatening, call 911 first THEN the Injury Hotline S - USE MOBILE INCIDENT REPORTING Damage, Near Miss) | | | | | | | s : | STUB-OUT SKYLIGHT | | | |
| | | | | | | | 18 30 | | ACCESS (S GROUND LE ONS) | VEL | SYSTEM SIZE PV SYSTEM (DC): 8.100kW PV SYSTEM (AC): 5.7kW @ 240V BATTERY SYSTEM: 10kWh |
| CUPATIONAL/INDUSTRIAL CLINIC: | | | | | | | | RESTRICTED | D ACCESS | | CLIENT DETAILS SALVADOR GUTIERREZ 3103 W YAKIMA AVE, YAKIMA, WA 98902 AHJ: CITY OF YAKIMA UTILITY: PACIFIC POWER METER: 66568065 APN: 181323-32421 EMAIL: OMGUTIERREZ@LIVE.COM FINANCE: MOSAIC POWERSWITCH CHOICE |
| SPITAL: | | | | | | | | GAS SHUT C WATER SHU | | | SYSTEM DETAILS MODULES: 20 X JA SOLAR: JAM54S31-405/MR OPTIMIZERS: 20 X SOLAREDGE S440 |
| | | 1A AVE | | | | | 7 | SERVICE DR | | | INVERTER 1: SOLAREDGE SE5700H-US (PART/SKU: SES700H-USMNUBL15) BATTERY: 1 X SOLAREDGE: ENERGY BANK RECEIVED |
| CH CONTACT INFORMATION: | | | | | | | (Z) 1 | POWER LINE | ES | | MAY 2 0 2025 CITY OF YAKIWA |
| ER: ON SITE SHALL BE MADE AWARE OF THE SAFETY PLAN AND THAT THEY ARE AWARE OF THE HAZARDS ON-SITE AND THE ING SAFELY. | THIS LOG IS TO BE FILLED OUT ANY TIME THE TEMP E COMPLETED AND UPLOADED AT THE END OF EVERYD | EAK A | DEGREES. | THE CREW L | EAD AND R | | ARE RESPON | NSIBLE FOR | ENSURING | | PLANNING DIV NO. REVISED BY DATE 1 B.R. 2/10/2025 - - - - - - |
| <u>SIGNATURE</u> | NAME | 0800HRS | 0900HRS | 1000HRS | 1100HRS | 1200HRS | 1300HRS | 1400HRS | 1500HRS | 1600HRS | FREEDOM FOREVER "WASHINGTON, LLC" 43445 BUSINESS PARK DRIVE SUITE 110, |
| | | | | | | | | | | | TEMECULA, CA 92590 Tel: (888) 557-6431 <u>GREG ALBRIGHT</u> JAW WAAA CONTRACTOR LICENSE |
| | | | | | | | | | | | CONTRACTOR LICENSE: ELECTRICAL ADMINISTRATOR ALBRIG*807C1 |
| TIME: | | | | | | | | | | | SAFETY PLAN JOB NO: DATE: DESIGNED BY: SHEET: 538347 5/16/2025 J.G. PV-9 |

JOB HAZARD ANALYSIS

Crew leader to fill out all sections below, hold a pre-job safety meeting with all personnel, and upload this completed document and the Safety Plan to Sit

- Ladder Access
- Ladders must be inspected before each use.
- Extension ladders must be set up on a firm and level surface at a 4-to-1 rise to run angle (or 75 degrees) and the top must be secured to the structure. Extension style ladders placed on uneven, loose or slippery surfaces must additionally have the base firmly anchored or lashed so the base will not slip out.
- Extension ladders must be used with walk-through devices or the ladder must extend 36" above the stepping off point.
- A-frame ladders must only be climbed with the ladder spreader bars locked in the open position; A-frame ladders shall not be climbed while in the closed position (ex, closed and used while leaned against a structure).
- Additional notes:

Mobile Equipment

- Only Qualified operators will operate equipment; operators must maintain a certification on their person for the equipment being operated.
- Type(s) of mobile equipment (Type/Make/Model):
- Qualified operator(s):

Material Handling and Storage

 Materials will be staged/stored in a way that does not present a hazard to client, personnel or public. Materials stored on the roof will be physically protect from failing or sliding off.

Fall Protection

- A site-specific plan for fall prevention and protection is required prior to starting work and must remain onsite at all times until work is complete; a fall rescue plan must be outlined and discussed among the crew prior to work start.
- First-person-Up (FPU) must install their anchor and connect before any other task, including installing other anchors. The Last-Person-Down (LPD) must be the only person on a roof uninstalling fall protection.
- FPCP (name and title):

FPU and LPD (name and title):

Electrical Safety

- The Electrical Qualified Person (EQP) is required onsite to perform electrical work.
- All electrical work will be performed with equipment in an electrically safe condition (de-energized) unless approval has been granted prior to work.
- Service drops and overhead electrical hazards will be indentified and protected from contact, as neccessary.
- EQP (name and tile):

Public Protection

- The safety of the Client and Public must be maintained at all times.
- The Client and the Public shall be prevented from entering the work zone through the use of barriers and/or signage, as required.
- Company, Client and Public property shall be protected from falling objects.
- Pets (including dogs) shall be secured by their owners prior to work start.
- The Client should not leave pets, family members, or others in charge or care of Employees, Contractors, or Temporary Workers.

- Crew leader responsible for communication with the client:
- Client and public is excluded from work area by barricades (N/A, Yes, No):

Training and Pre-Job Safety Briefing

- All employees onsite shall be made aware of the specific hazards of this project and review this HJA during a pre-job briefing, and their signature indicates awareness of site conditions and the plan to eliminate any hazards identified prior to and during the project.
- Crew leader (name/title):
- Crew member (name/title):

Airborne Contaminants:

- Asbestos-containing (Transite) piping (ACP) Do not disturb (move, drill, cut fracture, etc.)
- Asbestos-containing thermal insulation (ACI) and Asbestos-containing duct wrapping (ACW) - do not disturb, no attic or crawlspace access is allowed if work to be performed could cause exposure to personnel, client or public.
- If yes, list specific tasks and protection in place:

Weather and Environment

- The site supervisor shall forecast the weather conditions at the job site, prior to crew arrival, in order to mitigate any hazards associated with inclement weather (heat, cold, wind, rain, etc.)
- The site supervisor will utilized a portable wind meter (anemometer) to verify actual onsite wind conditions, by checking at the ground and on any elevated work surface (ex, rooftop) prior to work start, at midday and prior to solar panel staging on a roof.
- Elevated work involving the moving or maneuvering of solar panels shall cease at 25mph (sustained wind) until wind subsides.
- Forecasted weather maximum temp (degrees f):

Heat Related Illness Prevention

- Employees shall have access to potable drinking water that is fresh, pure, and suitably cool. The water shall be located as close as practicable to the areas where employees are working. Water shall be supplied in sufficient quantity at the beginning of the work shift to provide at least one quart per employee per hour for drinking for the entire shift. Employees may begin the shift with smaller quantities of water if they identify the location and have effective means for replenishment during the shift to allow employees to drink on quart or more per hour. The frequent drinking of water shall be encouraged.
- Shade shall be present when temperature exceeds 80 degrees Fahrenheit. When the outdoor temperature in the work exceeds 80 degrees Fahrenheit, employees shall have and maintain one or more areas with shade at all times.
- New employees must be acclimatized. New employees will be monitored by their Crew Leader (site supervisor) for the first two (2) weeks of employment or longer when necessary.
- Employees will be allowed and encouraged to implement scheduled breaks during each shift. Employees must take cool-down breaks in the shade any time they feel the need to do so to protect them from overheating. Supervisors are REQUIRED to allow employees any break period they need during high heat conditions.
- Cool Vests are encouraged for all employees at all times during periods of high heat.
- Identify the location of the closet Occupational/Industrial Clinic or Hospital in case a crew member becomes ill.

What is the specific plan to provide and replenish sufficient water for all employees on site?

- If offsite replenish is necessary, where will you go to replenish water (location/address);
- Who will replenish the drinking water (name):

Restroom facilities

- Employees shall have access to restroom facilities with hand-washing stations. Use of onsite restroom is at the client's discretion (location is annotated below). If client does not give permission, location of suitable restroom facilities with hand-washing stations offsite will be provided. The onsite supervisor will identify location and make arrangements to ensure all employees have access at any point.
- Restroom facilities will be (circle one): Onsite Offsite
- If Offsite, add location name and address:

Incident Reporting Procedure

| • | Contact your Site Supervisor | | | | | |
|---|------------------------------|--|--|--|--|--|
| | Name: | | | | | |
| | Phone: | | | | | |

| | your Manager | |
|---------|----------------------|--|
| Name: | | |
| Phone | | |
| Contact | your Site Supervisor | |

| | Contact your alle oupervi | 301 |
|---|---------------------------|-----|
| | Name: | |
| | | |
| _ | Phone: | |

With: Your full name, phone number, office location, brief description of what happen and when.

| Define the Hazard: | Method/steps to prevent incident |
|--------------------|----------------------------------|
| Define the Hazard: | Method/steps to prevent incident |
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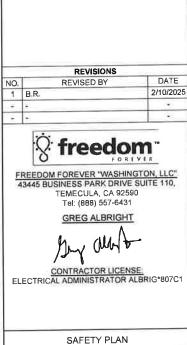
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CLIENT DETAILS SALVADOR GUTIERREZ 3103 W YAKIMA AVE, YAKIMA, WA 98902 AHJ: CITY OF YAKIMA UTILITY: PACIFIC POWER METER: 66568065 APN: 181323-32421 EMAIL: OMGUTIERREZ@LIVE.COM FINANCE: MOSAIC POWERSWITCH CHOICE

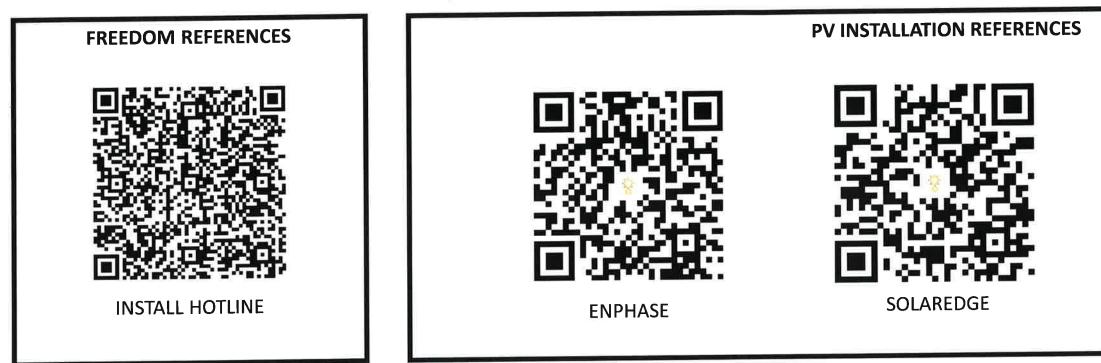
SYSTEM DETAILS

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| SAFETY PLAN | | | | | | | |
|-----------------------------|-----------|--------------|--------|--|--|--|--|
| JOB NO: | DATE: | DESIGNED BY: | SHEET: | | | | |
| 538347 | 5/16/2025 | J.G. | PV-10 | | | | |
| 538347 5/16/2025 J.G. PV-10 | | | | | | | |

FOR INSTALLATION REFERENCE ONLY SCAN QR CODE TO ACCESS REFERENCE LINK



BATTERY INSTALLATION REFERENCES



Enphase Storage Systems



SOLAREDGE Storage Systems



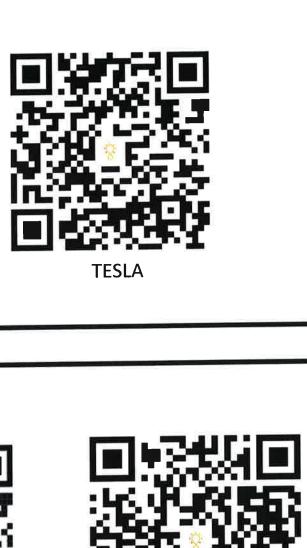


NON-BACKUP Battery Systems

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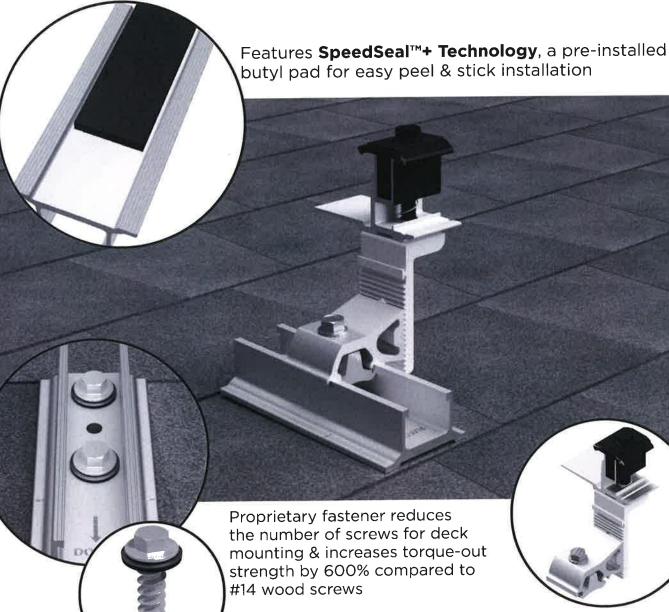


SnapNrack



AlphaTrack[™] & DeltaTrack[™]

The Ultimate Attachment for TopSpeed® Universal



Fully compatible with existing TopSpeed Universal Mount & SnapNrack railless products & accessories

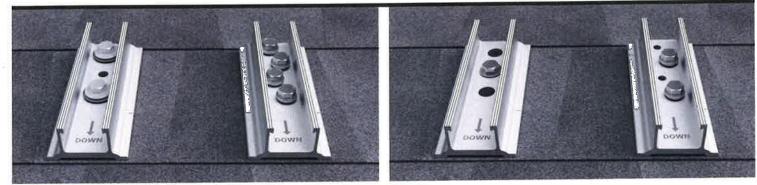
Start Installing AlphaTracks or DeltaTracks Today

Flexible Rafter & Deck Mounting Options

- AlphaTrack & DeltaTrack available to accomodate rafter & deck mounting based on DeckAnchor[™] or wood screw install preferences
- Fully compatible with existing TopSpeed® Universal Mount that features a rock-in channel
- Available in domestic content options, refer to "-USA" SKUs



AlphaTrack[™] 242-10063-USA



Deck Mounting Fastening Configurations

• AlphaTrack (left) easily installs with (2) DeckAnchors, 242-10035, & DeckTrack (right) requires (4) Sealing Wood Screws, 242-10010

Patented SpeedSeal+ Technology

- time
- across shingle tabs TAS 100A Wind Driven Rain Testing

Proprietary DeckAnchor[™] Fasteners

- Wide threads securely grip the wood deck & significantly reduces the potential for over-tightening
- Reduces the required screw count in half for deck mounting & increases the torque-out strength by 600% compared to a standard #14 wood screw
- ASTM D1761 Screw Capacities
- 1/2" hex head to maintain the SnapNrack tradition of a single tool install

contact@snapnrack.com www.snapnrack.com 877-732-2860

SnapNrack[®]

nut design for easy attachment & slotted riser provides leveling for easy height adjustment **ECEIVED**

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DeltaTrack[™] 242-10064 & 242-10064-USA

Rafter Mounting Fastening Configurations

• AlphaTrack (left) requires (1) Sealing Washer Lag, 242-02168 & DeckTrack (right) requires (2) Sealing Wood Screws, 242-10010

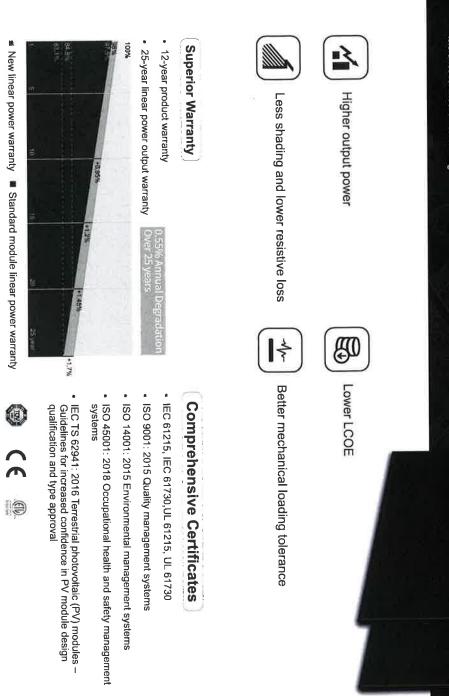
• 0.25" thick industry-leading pre-applied butyl Innovative bottom design features recessed edges with butyl for firm contact with roof & prevents butyl from squeezing out over

• Creates a watertight seal over all the roof surfaces, including



Introduction

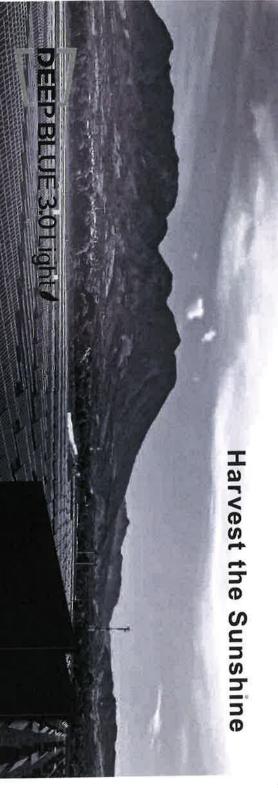
Assembled with 11BB PERC cells, the half-cell configuration of the modules offers the advantages of higher power output, better temperature-dependent performance, reduced shading effect on the energy generation, lower risk of hot spot, as well as enhanced tolerance for mechanical loading.



ASOLAR

New linear power warranty 🔎 Standard module linear power warranty

WWW.jaS0lar.com Specifications subject to technical changes and tests. JA Solar reserves the right of final interpretation.



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| UL Type 1 | Fire Performance | | d 1m/s, AM1 | C,wind spee | nperature 20° | ambient ten | Irradiance 800W/m², ambient temperature 20°C,wind speed 1m/s, AM1.5G | Irradian | NOCT |
|--|---|--|---------------------|---------------------|---------------------|---------------------|--|---------------------|---|
| Class I | Safety Class | Safe | 10.38 | 10.32 | 10.25 | 10.18 | 10.11 | 10.03 | Max Power Current(Imp) [A] |
| 45±2 °C | Ħ | NOCT | 11.10 | 11.03 | 10.96 | 10.89 | 10,82 | 10.75 | Short Circuit Current(Isc) [A] |
| 5400Pa(112lb/ft*) 2400Pa(50lb/ft*) | Maximum Static Load, Front Maximum Static Load, Back | Maxi | 29.47 | 29.26 | 29.08 | 28.87 | 28.68 | 28.51 | Max Power Voltage(Vmp) [V] |
| 25A | Maximum Series Fuse Rating | Maxi | 35,12 | 34.88 | 34.75 | 34,62 | 34,49 | 34.36 | Open Circuit Voltage(Voc) [V] |
| -40°C~+85°C | Operating Temperature | Oper | 306 | 302 | 298 | 294 | 290 | 286 | Rated Max Power(Pmax) [W] |
| 1000V/1500V DC | Maximum System Voltage | - | JAM54S31 -405/MR | JAM54S31 -400/MR | JAM54S31 -395/MR | JAM54S31 -390/MR | JAM54S31 -385/MR | JAM54S31 -380/MR | TYPE |
| FIONS | OPERATING CONDIT | OP | | | | - | AT NOC | NETERS | ELECTRICAL PARAMETERS AT NOCT |
| | g different module types. | mparison among | y serve for cor | e offer.They only | e not part of the | ile and they an | o a single modu | g do not refer t | Remark: Electrical data in this catalog do not refer to a single module and they are not part of the offer. They only serve for comparison among different module types |
| | 11.5G | Irradiance 1000W/m², cell temperature 25°C, AM1.5G | cell temperat | 1000W/m², c | Irradiance | | | | STC |
| | | | -0.350%/°C | -0 | | | | ix(γ_Pmp) | Temperature Coefficient of Pmax(y_Pmp) |
| | | | -0.275%/°C | -0 | | | | β_Voc) | Temperature Coefficient of Voc(B_Voc) |
| | | | +0.045%°C | +0 | | | | t_lsc) | Temperature Coefficient of lsc(q_lsc) |
| | | | 0~+5W | | | | | | Power Tolerance |
| 20.7 | 2 20.5 | 20.2 | 20,0 | | 19.7 | 19.5 | 10 | | Module Efficiency [%] |
| 12.98 | 31 12.90 | 12.81 | 12.73 | | 12.64 | 12.55 | 12 | 2 | Maximum Power Current(Imp) [A] |
| 13.87 | 70 13.79 | 13.70 | 13.61 | | 13.52 | 13.44 | 13 | | Short Circuit Current(Isc) [A] |
| 31.21 | 31.01 | 30.84 | 30.64 | | 30.46 | 30.28 | 30 | 3 | Maximum Power Voltage(Vmp) [V] |
| 37.23 | 18 37.07 | 36.98 | 36.85 | | 36.71 | 36.58 | 36 | | Open Circuit Voltage(Voc) [V] |
| 405 | 5 400 | 395 | 390 | | 385 | 380 | 38 | Į | Rated Maximum Power(Pmax) [W] |
| JAM54S31 -405/MR | JAM54S31 AR -400/MR | JAM54S31-395/MR | JAM54S31 -390/MR | لا 3-3 | JAM54S31 -385/MR | 4S31 /MR | JAM54S31 -380/MR | | TYPE |
| | | | 1.1 | | E LEN | - There is | AT STC | IETERS | ELECTRICAL PARAMETERS AT STC |
| 36pcs/Pallet, 864pcs/40ft Container | Packaging Configuration 36pcs/Palle | Packaging C | | | | quesi | vallaole upon re | cable length av | Remark: custom/ad frame color and cable length available upon request |
| Portralt: 300mm(+)/400mm(-); Landscape: 1200mm(+)/1200mm(-) | Portralt: 300 Landscape: | Cable Length (Including Connector) | 3 | | 1 | 150±7 | JES / | 8 Places | |
| - manufacture - 1 | | | | | 1 | | Jac 1 | Mounting He | |

CHARACTERISTICS

Current-Voltage Curve JAM54S31-405/MR

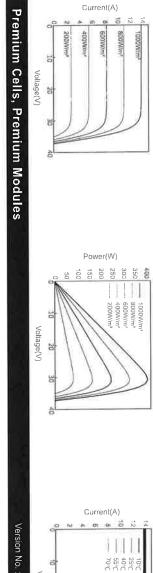
Power-Voltage Curve

JAM54S31-405/MR

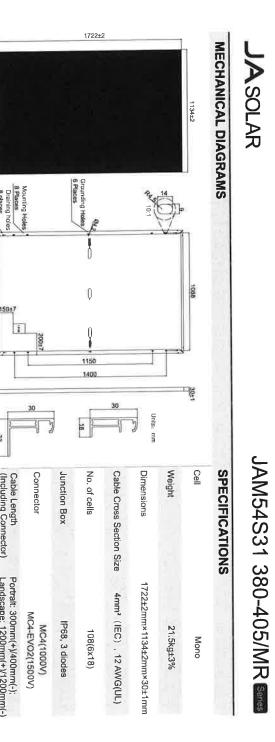
Current-Voltage Curve

JAM54S31-405/MR

Current(A)



Global EN 20210507A



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SolarEdge Home Hub Inverter **USA Domestic Content Eligible*** Single Phase, for North America

SE3800H-US / SE5700H-US / SE7600H-US / SE10000H-US / SE11400H-US



ТО ŇE BA

SolarEdge's USA-manufactured residential single phase inverter offering for storage and backup applications

- Eligible for domestic content: SolarEdge USA-1 manufactured inverters*, when paired with certain SolarEdge power optimizers, are intended to be eligible for the enhanced federal income tax credit for domestic conten
- The ultimate home energy manager in charge of PV 1 production, battery storage, backup operation during a power outage**, EV Charging, and smart energy devices
- Record-breaking 99% weighted efficiency with up 1 to 200% DC oversizing
- Able to start high LRA HVAC systems during backup 1 operation
- Integrates seamlessly with the complete SolarEdge Home Smart Energy Ecosystem, through SolarEdge Home Network
- Module-level monitoring and visibility of battery status, 1 PV production, and self-consumption data

/ Fast and easy installation - small and lightweight, with reduced commissioning time

Made

- A scalable solution that supports future homeowner needs through easy connection to a growing ecosystem of products
- Advanced safety features with integrated arc fault protection and rapid shutdown for 690,11 and 690.12
- Advanced reliability with automotive-grade components
- Embedded revenue grade production data, ANSI C12.20 1 Class 0.5
- NEMA 4X-rated, for indoor and outdoor installations
- Embedded Power Control System (PCS) install larger systems while avoiding main panel upgrade

MAY 2 0 2025 / SolarEdge Home Hub Inverter CITY OF YAKIMA PLANNING DIV. **USA Domestic Content Eligible** Single Phase, for North America SE3800H-US / SE5700H-US / SE7600H-US / SE10000H-US / SE11400H-US

| Applicable to inverters with part number | | SExxxxxH-USM | /INxBLx5 / USEx | xxxxH-USMNBL7 | 5 | |
|---|----------------------------|--------------------------------|--------------------------------|---------------|--------------------------------|----|
| Model Number ⁽¹⁾ | SE3800H-US | SE5700H-US | SE7600H-US | SE10000H-US | SE11400H-US | |
| OUTPUT - AC ON GRID | | | | | | |
| Maximum AC Power Output | 3800 @ 240V 3300 @ 208V | 5760 @ 240V 5000 @ 208V | 7600 @ 240V | 10,000 @ 240V | 11,400 @ 240V 10,000 @ 208V | W |
| AC Output Voltage (Nominal) | 5500 @ 2001 | | 208 / 240 | | | Va |
| AC Output Voltage (Range) | | | 183 - 264 | | | Va |
| AC Frequency Range (min - nom - max) | | | 59 3 - 60 - 60 5 ⁽³ |) | | Hz |
| Maximum Continuous Output Current | 16 @ 240V 16 @ 208V | 24 @240V 24 @ 208V | 32 @ 240V | 42 @ 240V | 47 5 @ 240V 48 @208V | A |
| GFDI Threshold | | | 1 | | | A |
| Total Harmonic Distortion (THD) | | | < 3 | | | % |
| Power Factor | | | 1, adjustable -0.85 to | 0.85 | | |
| Utility Monitoring, Islanding Protection, | | | Yes | | | |
| Country Configurable Thresholds | | | | | | - |
| Charge Battery from AC (if allowed) | | | Yes | | | - |
| Typical Nighttime Power Consumption | | | < 2.5 | | | W |
| OUTPUT - AC STANDALONE (BACKUP)(3) | | | | | | |
| Rated AC Power in Standalone Operation ¹⁴ | | | 11,400 | | | V |
| Maximum Continuous Output Current in Standalone Operation | | | 48 | | | 1 |
| Locked Rotor Amperage (LRA) ⁽⁵⁾ | | | Up to 106 | | | F |
| AC L-L Output Voltage Range in Standalone Operation | | | 211 – 264 | | | Va |
| AC L-N Output Voltage Range in Standalone Operation | | 105 - 132 | | | | |
| AC Frequency Range in Standalone Operation | 55 - 60 - 65 | | | | | В |
| (min - nom - max) | | | | | | |
| GFDI | | | 11 | | | 1 |
| THD | | | < 5 | | | 9 |
| INPUT - DC (PV AND BATTERY) | | | | | | |
| Transformer-less, Ungrounded | | | Yes | | | - |
| Maximum Input Voltage | | | 480 | | | Vo |
| Nominal DC Input Voltage | | | 380 | | | V |
| Reverse-Polarity Protection | | | Yes | | | - |
| Ground-Fault Isolation Detection | | | 600kΩ Sensitivity | / | | |
| Maximum Input Short Circuit Current | | | 45 | | | A |
| Maximum Inverter Efficiency | | | 99.2 | | | 9 |
| CEC Weighted Efficiency | 9 | 8.5 | | 99 | 99 @ 240V 98 5 @ 208V | 9 |
| 2-Pole Disconnection | | | Yes | | | 1 |
| DC CONNECTION - PV | | | | | | |
| Maximum Input Power | 7600 @ 240V 6600 @ 208V | 11,520 @ 240V 10,000 @ 208V | 15,200 @ 240V | 20,000 @ 240V | 22,800 @ 240V 20.000 @ 208V | V |
| Maximum Input Current | 20 @ 240V 17 @ 208V | 30 @ 240V 26 @ 208V | 40 @ 240V | 53 @ 240V | 60 @ 240V 53 @ 208V | A |
| Number of Ports | | | 3 | | | |
| Maximum Current per Port | | | 40 | | | A |

(1) These specifications apply to inverters with part number SExxxxxH-USMNxBLxS and USExxxxxH-USMNBL7S and connection unit model number DCD-1PH-US-PxH-F-x (2) For other regional settings please refer to the <u>SplarEdge Inverters</u>. Power <u>Control Options</u> application note. (3) Not designed for non-grid connected applications and requires AC for commissioning. Standalone (backup) functionality is only supported for the 240V grid. (4) For models SE7600H-US and below, the Rated AC Power in Standalone Operation is configurable between 7,600W with a Maximum Continuous Output Current of 32A or 11,400W with a Maximum Continuous Output Current of 48A, from firmware version 4.20.xx

(5) For more information about LRA (Locked Rotor Amperage) values, see the SolarEdge Home Hub Inverter LRA application note

* Manufactured by SolarEdge with the intent to be eligible for inclusion under the electric safe harbor in calculating the Domestic Cost Percentage under the 'Rooftop (JALPE)' category (under tIRS Notice 2024-40). For inserters with part number USExoxxH-USENTBUTS, the PCBA. Electrical Parts, and Enclosure are domestically produced and manufactured to meet the requirements of eligibility to be considered for the ITC domestic content bonus adder. For inverters with part number USExoxxH-USENTBUTS, the PCBA and Enclosure are domestically manufactured to meet the requirements of eligibility to be considered for the ITC domestic content bonus adder. SolarEdge does not provide tax and/or legal advice. You should consult with your own legal and/or tax adviso(t) regarding the eligibility of your project for the ITC or PTC, including the IK% domestic content bonus, to determine how the applicable nule apply to your project. The forward-looking statements in this datasheet are accurate as of the date herein and are subject to change. For more information, please contact your local SolarEdge sales representative Requires additional hardware and firmware version upgrade



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/ SolarEdge Home Hub Inverter

USA Domestic Content Eligible

Single Phase, for North America

SE3800H-US / SE5700H-US / SE7600H-US / SE10000H-US / SE11400H-US

| Applicable to inverters with part number | | SExxxxxH-USM | NxBLx5 / USExxx | xxH-USMNBL75 | | |
|--|------------------|---------------------------------------|--|---|-----------------|------------|
| Model Number ⁽¹⁾ | SE3800H-US | SE5700H-US | SE7600H-US | SE10000H-US | SE11400H-US | |
| DC CONNECTION - BATTERY | | | | | | |
| Supported Battery Types | | Sola | arEdge Home Battery | 400V | | |
| Number of Batteries per Inverter | | | Up to 3 | | | |
| Maximum Continuous Power (Charge and Discharge) | | | 11,400 | | | w |
| Number of Ports | | | 2 | | | |
| Maximum Current per Port | | | 40 | | | Adc |
| 2-pole Disconnection | | Up to the | inverter's rated standa | lone power | | |
| SMART ENERGY CAPABILITIES | | | | | | |
| Consumption Metering | | | Built-in ⁽²⁾ | | | |
| Standalone & Battery Storage | With Bac | | | vice up to 200A; up to | 3 inverters | |
| EV Charging | | Direct connection | on to the SolarEdge Ho | ome EV Charger ⁽⁸⁾ | | |
| ADDITIONAL FEATURES | | | | | | |
| Supported Communication Interfaces | R\$485, E | thernet, Cellular ^(e) , Wi | -Fi ⁽¹⁰⁾ (optional), SolarE | dge Home Network ^(ia) | (optional) | |
| Revenue Grade Metering, ANSI C12 20 | | | Built-in ⁽ⁱ⁾ | | | |
| Integrated AC, DC, and Communication Connection Unit | | | Yes | | | |
| Inverter Commissioning | With the S | etApp mobile applicat | ion using built-in Wi-F | i Access Point for loca | connection | |
| DC. Voltage Rapid Shutdown (PV and Battery) | | | Yes, NEC 690 12 | | | 1 |
| STANDARD COMPLIANCE | | | | | | |
| Safety | UL 1741, UL 1741 | ISA, UL 1741SB, UL 169 | 9B, CSA 22 2#107 1, C | 22,2#330, C22_3#9, AM | ISI/CAN/UL 9540 | |
| Grid Connection Standards | | IEEE1547-20 | 18 and IEEE-1547 1 Ru | le 21, Rule 14H | | |
| Emissions | | | FCC Part 15 Class B | | | |
| Power Control System (PCS) | | | UL 1741 PCS(%) | | | <u> </u> |
| INSTALLATION SPECIFICATIONS | | | | | | |
| AC Terminals | | | blocks, PE busbar for <s, busbar="" c<="" ev="" for="" pe="" td=""><td>inverter connection harger AC connection</td><td></td><td></td></s,> | inverter connection harger AC connection | | |
| DC Terminals | 3 x t | erminal block pairs fo | r PV input, 2 x termina | I block pair for battery | input | _ |
| AC Output and EV AC Output Conduit Size / AWG Range | | 1 | " maximum / 14 – 4 A\ | WG | | |
| DC Input (PV and Battery) Conduit Size / AWG Range | | 1 | " maximum / 14 – 6 A\ | WG | | |
| Dimensions with Connection Unit (H x W x D) | | 21.06 | x 14.6 x 8.2 / 535 x 37 | 0 x 208 | | in / mm |
| Weight with Connection Unit | | | 44.9 / 20.3 | | | lb/k |
| Noise | | | < 50 | | | dBA |
| Cooling | | | Natural Convection | | | |
| Operating Temperature Range | | | 40 to +140 / -40 to +6 | 0(12) | | *F/*(|
| Protection Rating | | | NEMA 4X | | | 1 |

(6) Discharge power is limited up to the inverter's rated AC power for on-grid and standalone applications, as well as up to the installed batteries' rating

 (7) For consumption metering current transformers should be ordered separately. SEC1-SPL-226A-1-20 or SEACTESC-400NA-20. Revenue grade metering is only for production metering.
 (8) For more information about the SolarEdge Home EV Charger, refer to the <u>SolarEdge Home EV Charger</u> datatheet.
 (9) Information concerning the data plan terms & conditions is available in <u>SolarEdge Communication Plan Terms and Conditions</u>. (10) SolarEdge Home Network Plugin ENET-HBNP-01 and Wi-Fi Antenna SE-ANT-ZBW/FI-KIT purchased separately. For more information refer to the SolarEdge Home Network Plugin datasheet and the Solarcoge Home Network Progin ENEL-Hold WH-O and WH-P Adverse and State State State State State State State State Communications datasheet.
 Only part numbers SEcondH-USMNxx7x and USExxxxXH-USMNxx7x support the PCS meter.

(12) Full power up to at least 122*F / 50*C; for power derating information refer to the Temperature Derating for North America technical note

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SolarEdge is a global leader in smart energy technology. By leveraging world-class engineering capabilities and with a relentless focus on innovation, SolarEdge creates smart energy solutions that power our lives and drive future progress.

SolarEdge developed an intelligent inverter solution that changed the way power is harvested and managed in photovoltaic (PV) systems. The SolarEdge DC optimized inverter maximizes power generation while lowering the cost of energy produced by the PV system.

Continuing to advance smart energy, SolarEdge addresses a broad range of energy market segments through its PV, storage, EV charging, UPS, and grid services solutions.

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Cautionary Note Regarding Market Data and Industry Forecasts: This brochure may contain market data and inclustry forecasts from certain third party sources. This information is based on industry surveys and the preparer's expertise in the industry and there can be no assurance that any such Although we have not independently verified the accuracy of such market data and industry forecasts, we believe that the market data is reliable and that the industry forecasts are reasonable.

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Power Optimizer

For North America

S440, S500



POWER **OPTIMIZER**

PV power optimization at the module level

- I Specifically designed to work with SolarEdge residential inverters
- Detects abnormal PV connector behavior, preventing potential safety issues*
- Module-level voltage shutdown for installer and firefighter safety
- Superior efficiency (99.5%)
- I Mitigates all types of module mismatch loss, from manufacturing tolerance to partial shading

* Expected availability in 2022

Faster installations with simplified cable management and easy assembly using a single bolt

- I Flexible system design for maximum space utilization
- Compatible with bifacial PV modules
- Meets NEC requirements for arc fault protection (AFCI) and Photovoltaic Rapid Shutdown System (PVRSS)

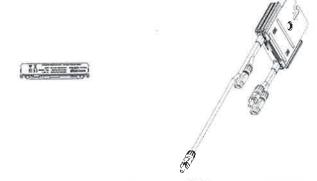
/ Power Optimizer For North America S440, S500

| | S440 | \$500 | Unit |
|--|----------------------------|---------------------------------------|---------|
| | | | |
| Rated Input DC Power® | 440 | 500 | W |
| Absolute Maximum Input Voltage (Voc) | 60 | | Vdc |
| MPPT Operating Range | 8 - 6 | 0 | Vdc |
| Maximum Short Circuit Current (Isc) of Connected PV Module | 14.5 | 15 | Adc |
| Maximum Efficiency | 99.9 | · · · · · · · · · · · · · · · · · · · | % |
| Weighted Efficiency | 98.6 | | % |
| Overvoltage Category | 11 | | |
| OUTPUT DURING OPERATION | | | |
| Maximum Output Current | 15 | | Adc |
| Maximum Output Voltage | 60 | | Vdc |
| OUTPUT DURING STANDBY (POWER OPTIMIZER DISC | ONNECTED FROM INVERTER OR | INVERTER OFF) | |
| Safety Output Voltage per Power Optimizer | 1+/- | 0.1 | Vdc |
| STANDARD COMPLIANCE | | | |
| Photovoltaic Rapid Shutdown System | NEC 2014, 201 | 17 & 2020 | |
| EMC | FCC Part 15 Class B, IEC61 | 000-6-2, IEC61000-6-3 | |
| Safety | IEC62109-1 (class II | safety), UL1741 | |
| Material | UL94 V-0, U\ | / Resistant | |
| RoHS | Yes | | |
| Fire Safety | VDE-AR-E 2100 | -712:2013-05 | |
| INSTALLATION SPECIFICATIONS | | | |
| Maximum Allowed System Voltage | 100 | 0 | Vdc |
| Dimensions (W x L x H) | 129 x 153 x 30 / 5 | 07 x 6 02 x 1 18 | mm/i |
| Weight (including cables) | 655 / | 1,5 | gr / lt |
| Input Connector | MC4 | 20 | |
| Input Wire Length | 0.1/0 | 32 | m/ft |
| Output Connector | MC | 4 | |
| Output Wire Length | (+) 2.3, (-) 0.10 / (|) 7.54, (-) 0.32 | m/fi |
| Operating Temperature Range ^(b) | -40 to | +85 | *C |
| Protection Rating | IP68 / Ту | ребВ | |
| Relative Humidity | 0 - 1 | 00 | % |

For ambient temperature above +70°C / +158°F power de-rating is applied. Refer to Power Optimizers 1

| PV System Design Us Inverter | ing a SolarEdge | Single Phase HD-Wave | Three Phase for 208V grid | Three Phase for 277/480V grid | |
|---|------------------------------|--------------------------------------|------------------------------|----------------------------------|---|
| Minimum String Length (Power Optimizers) | S440, S500 | 8 | 14 | 18 | |
| Maximum String Length (Power Optimizers) | | 25 | | 5019 | |
| Maximum Nominal Power per | | 5700 (6000 with SE7600-US-SE11400-U) | 6000 | 12750 | W |
| Maximum Allowed Connected | Power per String to | | One String 7200W | 15.000W | |
| (Permitted only when the difference strings is 1,000W or less) | e in connected power between | Refer to Footnote 5 | Two strings or more 7800W | 13,000 | |
| Parallel Strings of Different Ler | oths or Orientations | | Υ | | |

(4) A string with more than 30 optimizers does not meet NEC rapid shutdown requirements; safety voltage will be above the 30V requirement (5) If the inverters rated AC power ≤ maximum nominal power per string, then the maximum power per string will be able to reach up to the inverters maximum input DC power. Refer to: https://www.solaredge.com/ sites/default/fles/se-power-optimizer-single-string-design-application-note.pdf (6) It is not allowed to mix S-series and P-series Power Optimizers in new installations



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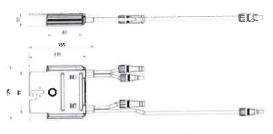
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| lemperature De-Rating | 1 | echnical Note for more details | |
|-----------------------|---|--------------------------------|--|
| | | | |





EZ#SOLAR making solar simple.

A. System Specifications and Ratings

- Maximum Voltage: 1,000 Volts
- Maximum Current: 80 Amps
- Allowable Wire: 14 AWG 6 AWG
- Maximum Number of Input Circuits: 4
- Spacing: Please maintain a spacing of at least ½" between uninsulated live parts and fittings for conduit, armored cable, and uninsulated live parts of opposite polarity.
- Enclosure Rating: Type 3R
- Roof Slope Range: 2.5 12:12
- Max Side Wall Fitting Size: 1"
- Max Floor Pass-Through Fitting Size: 1"
- Ambient Operating Conditions: (-35°C) (+75°C)
- Compliance:
 - JB-3: UL1741, CSA C22.2 No. 290
 - Approved wire connectors: must conform to UL1741
- System Marking: Intertek Symbol and File #5025824
- Periodic Re-inspections: If re-inspections yield loose components, loose fasteners, or any corrosion between components, components that are found to be affected are to be replaced immediately.

| | | 0. Ocarduator | 14955 | TO LA TO | Torque | | |
|---------------------------------|-------------|---------------|---------|-------------|-------------|---------|---------|
| | 1 Conductor | 2 Conductor | Туре | NM | inch Lbs | Voltage | Current |
| ABB ZS6 terminal block | 10-24 awg | 16-24 awg | Sol/Str | 0.5-0.7 | 6.2-8.85 | 600V | 30 amp |
| ABB ZS10 terminal block | 6-24 awg | 12-20 awg | Sol/Str | 1.0-1.6 | 8.85-14.16 | 600V | 40 amp |
| ABB ZS16 terminal block | 4-24 awg | 10-20 awg | Sol/Str | 1.6-2.4 | 14.6-21.24 | 600V | 60 amp |
| ABB M6/8 terminal block | 8-22 awg | | Sol/Str | .08-1 | 8.85 | 600V | 50 amp |
| Ideal 452 Red | 8-18 awg | | Sol/Str | Self-Torque | Self-Torque | 600V | |
| Ideal 451 Yellow Watchington | 10-18 awg | | Sol/Str | Self-Torque | Self-Torque | 600V | |
| Ideal, In-Sure Pathia Cornector | 10-14 awg | | Sol/Str | Self-Torque | Self-Torque | 600V | |
| WAGO, 2204-1201 | 10-20 awg | 16-24 awg | Sol/Str | Self-Torque | Self-Torque | 600V | 30 amp |
| WAGO, 221-612 | 10-20 awg | 10-24 awg | Sol/Str | Self-Torque | Self-Torque | 600V | 30 amp |
| Dottie DRC75 | 6-12 awg | | Sol/Str | Snap-In | Snap-In | | |
| | 4-6 awg | | Sol/Str | | 45 | | 00V |
| ESP NG-53 | 10-14 awg | | Sol/Str | | 35 | 200 | V0V |
| | 4-6 awg | | Sol/Str | | 45 | | 2014 |
| ESP NG-717 | 10-14 awg | | Sol/Str | | 35 | 200 | V00 |
| | 4-6 awg | | Sol/Str | | 45 | | 2014 |
| Brumall 4-5,3 | 10-14 awg | | Sol/Str | | 35 | 200 | V00 |

Table 1: Typical Wire Size, Torque Loads and Ratings

Table 2: Minimum wire-bending space for conductors through a wall opposite terminals in mm (inches)

| | A State of the second | Wires per tern | ninal (pole) | |
|----------------------------------|-----------------------|----------------|----------------|-----------------------|
| Wire size, AWG or kcmil (mm2) | 1 mm (inch) | 2 mm (inch) | 3 mm (inch) | 4 or More mm (inch |
| 14-10 (2.1-5.3) | Not Specified | | | 162 |
| 8 (8.4) | 38.1 (1-1/2) | 2 | | 5 M |
| 6 (13.3) | 50.8 (2) | 2 | ÷ | - |



Product specifications

Eaton DG222URB

Catalog Number: DG222URB

Eaton General duty non-fusible safety switch, single-throw, 60 A, NEMA 3R, Rainproof, Painted galvanized steel, Two-pole, Two-wire, 240 V

General specifications

| Product Name | Catalog Number |
|--|---------------------|
| Eaton general duty non-fusible safety | DG222URB |
| switch | UPC 782113144238 |
| Product Length/Depth | Product Height |
| 7.38 in | 14.38 in |
| Product Width | Product Weight |
| 8.69 in | 9 Ib |
| Warranty Eaton Selling Policy 25-000, one (1) yea from the date of installation of the Product or eighteen (18) months from th date of shipment of the Product, whichever occurs first. | Catalog Notes |

Product specifications

Product Category General duty safety switch Enclosure material

Painted galvanized steel

Туре Non-fusible, single-throw

Fuse configuration

Non-fusible

Number of wires

2

Enclosure NEMA 3R

Voltage rating 240V

Amperage Rating 60A

Number Of Poles

Two-pole





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Resources

Multimedia

Catalogs Eaton's Volume 2—Commercial Distribution

Double Up on Safety Switching Devices Flex Center

Specifications and datasheets Eaton Specification Sheet - DG222URB

Warranty guides Selling Policy 25-000 - Distribution and Control Products and Services

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Product specifications

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Powering Business Worldwide

Eaton DG224URK

Catalog Number: DG224URK

Eaton General duty non-fusible safety switch, single-throw, 200 A, NEMA 3R, Rainproof, Painted galvanized steel, Two-pole, Two-wire, 240 V

General specifications

| Product Name | Catalog Number |
|---|--|
| Eaton general duty non-fusible sa | afety DG224URK |
| switch | UPC 786685234816 |
| Product Length/Depth | Product Height |
| 11,25 in | 25.5 in |
| Product Width | Product Weight |
| 16 in | 55 lb |
| Warranty | Certifications |
| Eaton Selling Policy 25-000, one | |
| from the date of installation of the | Catalog Notes |
| Product or eighteen (18) months date of shipment of the Product, | WARNING! Switch is not approved for |
| whichever occurs first. | service entrance unless a neutral kit is installed. |

Product specifications

Product Category General duty safety switch Enclosure material Painted galvanized steel

Туре Non-fusible, single-throw

Fuse configuration Non-fusible

Number of wires

2

Enclosure NEMA 3R

Voltage rating

240V

Amperage Rating 200A

Number Of Poles

FAT • N

Two-pole

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Resources

Catalogs Eaton's Volume 2—Commercial Distribution

Multimedia Switching Devices Flex Center

Double Up on Safety

Specifications and datasheets Eaton Specification Sheet - DG224URK

Warranty guides Selling Policy 25-000 - Distribution and Control Products and Services

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SolarEdge Energy Bank **10kWh Battery**

For North America

| (| | 10 YEAR WARRANTY |
|---|--------------------|------------------------|
| | solar <u>30</u> 96 | |
| | | |
| | | |
| | | |

Optimized for SolarEdge Energy Hub Inverters⁽¹⁾

- Maximized system performance, gaining more energy to store and use for on-grid and backup power applications
- Integrates with the complete SolarEdge residential offering, providing a single point of contact for warranty, support, training, and simplified logistics & operations
- I DC coupled battery featuring superior overall system efficiency, from PV to battery to grid
- / Scalable solution for increased power and capacity with multiple SolarEdge inverters and batteries

Backup application are subject to local regulation and may require additional components and firmware upgrade

- Solar, storage, EV charging, and smart devices all monitored and managed by a single app to optimize solar production, consumption and backup* power
- Wireless communication to the inverter, reducing wiring, labor and installation faults
- Simple plug and play installation, with automatic SetApp-based configuration
- Includes multiple safety features for battery protection

/ SolarEdge Energy Bank **10kWh Battery**

For North America

| | BAT-10K1P ⁽²⁾ | |
|--|---|---------|
| BATTERY SPECIFICATION | | |
| Usable Energy (100% depth of discharge) | 9700 | Wh |
| Continuous Output Power | 5000 | W |
| Peak Output Power (for 10 seconds) | 7500 | W |
| Peak Roundtrip Efficiency | >94,5 | % |
| Warranty ⁷¹ | 10 | Years |
| Voltage Range | 350-450 | Vdc |
| Communication Interfaces | Wireless* | |
| Batteries per Inverter | Up to 3 ⁽²⁾ | |
| STANDARD COMPLIANCE | | |
| Safety | UL1642, UL1973, UL9540, UN38 3 | |
| Emissions | FCC Part 15 Class B | |
| MECHANICAL SPECIFICATIONS | | |
| Dimensions (W x H x D) | 31.1 x 46.4 x 9.84 / 790 x 1179 x 250 | in / mr |
| Weight | 267 / 121 | lo / kg |
| Mounting ⁽⁵⁾ | Floor or wall mount ⁶⁹ | |
| Operating Temperature ^(/) | +14 to +122 / -10 to +50 | °F / °C |
| Storage Temperature (more than 3 months) | +14 to +86 / -10 to +30 | °F/°C |
| Storage Temperature (less than 3 months) | -22 to + 140 / -30 to +60 | °F / °C |
| Altitude | 6562 / 2000 | ft / m |
| Enclosure Protection | IP55 / NEMA 3R - indoor and outdoor (water and dust protection) | |
| Cooling | Natural convection | |
| Noise (at 1m distance) | <25 | dBA |

Using RS485 could reduce the usable energy to 9500Wh (i) Please refer to the SolarEdge Energy Bank battery connections and configuration application note for compatible inverters

(2) These specifications apply to part number BAT-10K1PS0B-01

 (6) Installation and mounting requires handles that should be purchased separately. Please refer to the Accessories' PN table below.
 (6) The floor stand is purchased separately. One floor stand is required per SolarEdge Energy Bank battery. Please refer to the Accessories' PN table below. (i) The non-neuron of the control of the solar day one more solar to require the solar day bank backets rease refer to the neuronal receiver and the solar day bank backets rease refer to the neuronal receivers in the control of the solar day bank is warranty coverage. Please see the Energy Bank is mitted Product Warranty for additional details.

| Accessory | PN |
|--|--------------------|
| Floor stand | IAC-RBAT-FLRSTD-01 |
| Branch connectors set (includes a pair of DC + and DC - connectors) Required for installations with multiple SolarEdge Energy Bank batteries with a single inverter | IAC-RBAT-USYCBL-01 |
| Handles | IAC-RBAT-HANDLE-01 |
| SolarEdge Energy Net Plug-in | ENET-HBNP-01 |
| Battery inverter extension cable 2m long (MC4 to terminal block) | IAC-RBAT-10M420-01 |



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CITY OF YAKIMA LANNING DIV.





April 30, 2024

SnapNrack 775 Fiero Lane, Ste. 200 San Luis Obispo, CA 93401 TEL: (877) 732-2860

Attn.: SnapNrack - Engineering Department

Re: SnapNrack pre-engineered PV racking systems:

- RL Universal System (Report # 2019-02916A.01 and B.01)
- S200 Ground Mount System (Report # 2017-00240-D.02)
- UR40 Railed System (Report # 2017-03227.11)
- UR60 Railed System (Report # 2018-11940.03)
- TopSpeed Deck Mount System (Report # 2022-02141)

Subject: Engineering certification for the State of Washington.

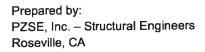
PZSE, Inc. - Structural Engineers has provided engineering and span tables as presented in the above referenced reports. All information, data, and analysis therein are based on, and comply with, the following building codes and typical specifications:

Building Codes:

- 1. ASCE/SEI 7-16, Minimum Design Loads for Buildings and Other Structures, by American Society of Civil Engineers
- 2. 2018 & 2021 International Building Code, by International Code Council, Inc.
- 3. 2018 & 2021 International Residential Code, by International Code Council, Inc.
- 4. AC428 Acceptance Criteria for Modular Framing Systems Used to Support Photovoltaic (PV) Panels, November 1, 2012, by ICC-ES
- 5. Aluminum Design manual 2015, by The Aluminum Association, Inc.
- 6. ANSI/AWC NDS-2018, National Design Specification for Wood Construction, by the American Wood Council

This letter certifies that the design criteria and design methodology for the SnapNrack product span tables are in compliance with the above codes. Please refer to the system specific Engineering Certification Reports (listed above) for system specific design criteria and limitations.

If you have any questions on the above, do not hesitate to call.





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