



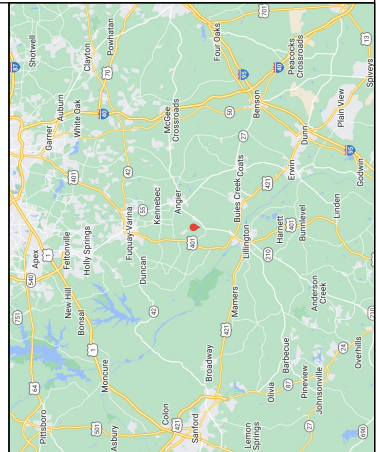
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David C. Hernandez

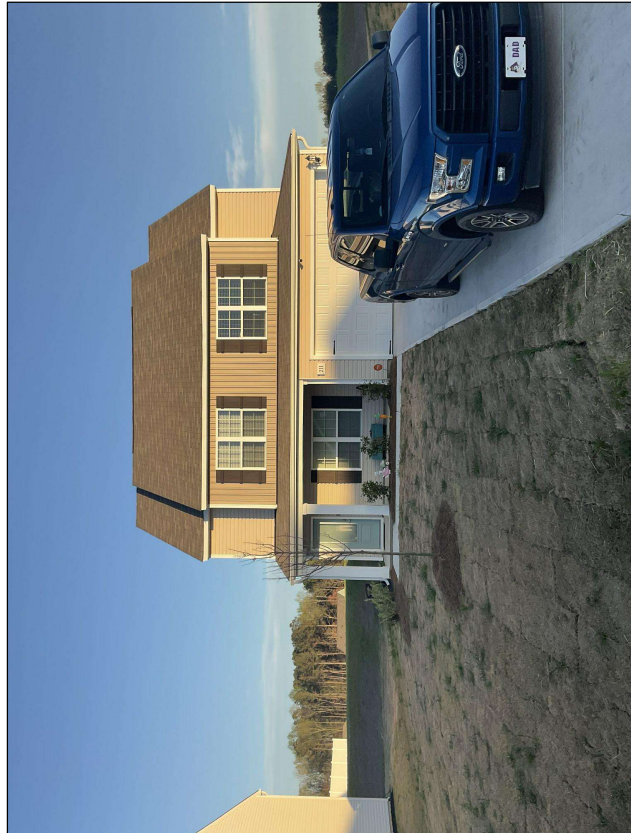
Digitally signed by David C. Hernandez
Date: 2023.03.29 15:08:19 -04:00

032323



RESIDENTIAL SOLAR PHOTOVOLTAIC SYSTEM 211 CHEDWORTH DR ANGIER, NC 27501

10.935 kW DC-STC / 7.600 kW AC
28/MAR/23



SYSTEM SPECIFICATIONS

SYSTEM SIZE: 10.935 kW
MODULE: VSUN 405-1085MH 405 W
NUMBER OF PANELS: 27
INVERTER: SE7600H-US (240V)
OPTIMIZER: S440
RACKING SYSTEM: IRONRIDGE XR-10-168M

UTILITY: DUKE ENERGY PROGRESS (DEP) (NC)
GOVERNING CODE:
2018 NORTH CAROLINA BUILDING CODE
2018 NORTH CAROLINA FIRE CODE
2018 NORTH CAROLINA RESIDENTIAL CODE FOR
ONE AND TWO-FAMILY DWELLINGS
NEC 2017



EXACTUS ENERGY
NEW AGE ENGINEERING

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TORONTO, ON

SHEET INDEX

| |
|---|
| C1 - COVER PAGE |
| N1 - GENERAL NOTES |
| G1 - SITE PLAN |
| G2 - PANEL LAYOUT |
| G3 - MOUNTING DETAIL |
| E1 - LINE DIAGRAM |
| E2 - WARNING LABELS |
| E3 - PLACARD |
| A1 - PANELS SPECIFICATIONS |
| A2 - RACKING SPECIFICATIONS |
| A3 - BONDING AND GROUNDING SPECIFICATIONS |
| A4 - MOUNTING SPECIFICATIONS |
| A5 - INVERTER SPECIFICATIONS |
| A6 - OPTIMIZERS SPECIFICATIONS |

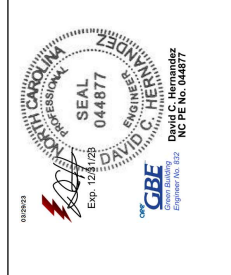
C1 - COVER PAGE

GENERAL NOTES:

- THE INSTALLATION OF PV SYSTEM SHALL BE IN ACCORDANCE WITH THE MOST RECENT NATIONAL ELECTRICAL AND BUILDING CODES AND STANDARDS, AS AMENDED BY JURISDICTION
- PV SYSTEMS SHALL BE PERMITTED TO SUPPLY A BUILDING OR OTHER STRUCTURE IN ADDITION TO ANY OTHER ELECTRICAL SUPPLY SYSTEM(S) [NEC 690.4(A)]
- THE INSTALLATION OF EQUIPMENT AND ALL ASSOCIATED WIRING AND INTERCONNECTION SHALL BE PERFORMED ONLY BY QUALIFIED PERSONS [NEC 690.4(C)]
- EXISTING PLUMBING VENTS, SKYLIGHTS, EXHAUST OUTLETS, VENTILATIONS INTAKE AIR OPENINGS SHALL NOT BE COVERED BY THE SOLAR PHOTOVOLTAIC SYSTEM
- INVERTERS, MOTOR GENERATORS, PHOTOVOLTAIC MODULES, PHOTOVOLTAIC PANELS, AC PHOTOVOLTAIC MODULES, SOURCE-CIRCUIT COMBINERS, AND CHARGE CONTROLLERS INTENDED FOR USE IN PV SYSTEMS SHALL BE LISTED OR FIELD LABELED FOR THE PV APPLICATION [NEC 690.4(B)]
- ALL OUTDOOR EQUIPMENT SHALL BE NEMA 3R RATED (OR BETTER), INCLUDING ALL ROOF MOUNTED TRANSITION BOXES AND SWITCHES.
- ALL EQUIPMENT SHALL BE PROPERLY GROUNDED AND BONDED IN ACCORDANCE WITH NEC ARTICLE 250.
- SYSTEM GROUNDING SHALL BE IN ACCORDANCE WITH NEC 690.41
- FOR PV MODULES, EQUIPMENT GROUNDING CONDUCTORS SMALLER THAN 6AWG SHALL COMPLY WITH NEC 250.12(C) [NEC 690.46]
- ALL PV SYSTEM DC CIRCUIT AND INVERTER OUTPUT CONDUCTORS AND EQUIPMENT SHALL BE PROTECTED AGAINST OVERCURRENT UNLESS STATED OTHERWISE IN NEC 690.9(A)
- OVERCURRENT DEVICES USED IN PV SYSTEM DC CIRCUITS SHALL BE LISTED FOR USE IN PV SYSTEMS [NEC 690.9(B)]
- PV SYSTEM CIRCUITS INSTALLED ON OR IN BUILDINGS SHALL INCLUDE A RAPID SHUTDOWN FUNCTION IN ACCORDANCE WITH NEC 690.12
- DISCONNECTING MEANS SHALL BE LOCATED IN A VISIBLE, READILY ACCESSIBLE LOCATION OR A MAXIMUM OF 10 FEET AWAY FROM THE SYSTEM [NEC 690.13(A)]
- ALL WIRING METHODS SHALL BE IN ACCORDANCE WITH NEC 690.31
- CONNECTORS SHALL REQUIRE A TOOL TO OPEN AND BE MARKED "DO NOT DISCONNECT UNDER LOAD" OR "NOT FOR CURRENT INTERRUPTING". [NEC 690.33(E)]
- ALL GROUNDED CONDUCTORS SHALL BE PROPERLY COLOR IDENTIFIED AS WHITE. [NEC 200.6]
- PV SYSTEM CONNECTED ON THE LOAD SIDE OF THE SERVICE DISCONNECTING MEANS OF THE OTHER SOURCE(S) AT ANY DISTRIBUTION EQUIPMENT ON THE PREMISES SHALL MEET THE FOLLOWING [NEC 705.12(B)]:

 1. EACH SOURCE CONNECTION SHALL BE MADE AT A DEDICATED CIRCUIT BREAKER OF FUSIBLE DISCONNECTING MEANS. [NEC 705.12(B)(1)]
 2. 125 PERCENT OF THE POWER SOURCE OUTPUT CIRCUIT CURRENT SHALL BE USED IN AMPACITY CALCULATIONS. [NEC 705.12(B)(2)]
 3. EQUIPMENT CONTAINING OVERCURRENT DEVICES IN CIRCUITS SUPPLYING POWER TO A BUS BAR OR CONDUCTOR SHALL BE MARKED TO INDICATE THE PRESENCE OF ALL SOURCES. [NEC 705.12(B)(3)]
 4. CIRCUIT BREAKER, IF BACK FED, SHALL BE SUITABLE FOR SUCH OPERATION [NEC 705.12(B)(4)]

- WHEN A BACKFED BREAKER IS THE METHOD OF UTILITY INTERCONNECTION, THE BREAKER SHALL BE INSTALLED AT THE OPPOSITE END OF THE BUS BAR OF THE MAIN BREAKER.
- TO REDUCE FIRE HAZARDS, DC PV SYSTEMS WILL BE EQUIPPED WITH A GROUND FAULT PROTECTION SYSTEM IN ACCORDANCE WITH NEC 690.41(B)
- WHERE GROUND-FAULT PROTECTION IS USED, THE OUTPUT OF AN INTERACTIVE SYSTEM SHALL BE CONNECTED TO THE SUPPLY SIDE OF THE GROUND FAULT PROTECTION [NEC 705.32]
- ALL PLAQUES AND SIGNAGE REQUIRED BY THE LATEST EDITION OF NATIONAL ELECTRICAL CODE. LABEL SHALL BE METALLIC OR PLASTIC, ENGRAVED OR MACHINE PRINTED IN A CONTRASTING COLOR TO THE PLAQUE. PLAQUE SHALL BE UV RESISTANT IF EXPOSED TO SUNLIGHT
- ALL THE NEC REQUIRED WARNING SIGNS, MARKINGS, AND LABELS SHALL BE POSTED ON EQUIPMENT AND DISCONNECTS PRIOR TO ANY INSPECTIONS TO BE PERFORMED BY THE BUILDING DEPARTMENT.
- CONNECTORS SHALL BE OF LATCHING OR LOCKING TYPE. CONNECTORS THAT ARE READILY ACCESSIBLE AND OPERATING AT OVER 30 VOLTS SHALL REQUIRE TOOL TO OPEN AND MARKED "DO NOT DISCONNECT UNDER LOAD" OR "NOT FOR CURRENT INTERRUPTING". [NEC 690.33(C) & (E)(2)]
- FLEXIBLE, FINE-STRANDED CABLES SHALL BE TERMINATED ONLY WITH TERMINALS, LUGS, DEVICES, OR CONNECTORS IN ACCORDANCE WITH NEC 110.14
- WORK CLEARANCES AROUND ELECTRICAL EQUIPMENT WILL BE MAINTAINED PER NEC 110.26(A)(1), 110.26(A)(2) AND 110.26(A)(3)
- ALL EXTERIOR CONDUITS, FITTINGS AND BOXES SHALL BE RAIN-TIGHT AND APPROVED FOR USE IN WET LOCATIONS PER NEC 314.15.
- ROOFTOP MOUNTED PHOTOVOLTAIC PANELS AND MODULES SHALL BE TESTED, LISTED & IDENTIFIED IN ACCORDANCE WITH UL 1703
- EACH MODULE TO BE GROUNDED USING THE SUPPLIED CONNECTION POINT PER MANUFACTURER'S REQUIREMENTS. ALL SOLAR MODULES, EQUIPMENT, AND METALLIC COMPONENTS ARE TO BE BONDED. IF THE EXISTING GROUNDING ELECTRODE SYSTEM CAN NOT BE VERIFIED OR IS ONLY METALLIC WATER PIPING, IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSTALL A SUPPLEMENTAL GROUNDING ELECTRODE.
- DC CONDUCTORS SHALL BE RUN IN EMT AND SHALL BE LABELED "CAUTION DC CIRCUIT" OR EQUIV. EVERY 5 FT
- CONFIRM LINE SIDE VOLTAGE AT ELECTRIC UTILITY SERVICE PRIOR TO CONNECTING INVERTER. VERIFY SERVICE VOLTAGE IS WITHIN INVERTER VOLTAGE OPERATIONAL RANGE.
- SERVING UTILITY TO BE NOTIFIED BEFORE ACTIVATION OF PV SYSTEM.
- ELECTRICAL CONTRACTOR TO PROVIDE CONDUIT EXPANSION JOINTS AND ANCHOR CONDUIT RUNS AS REQUIRED PER NEC.
- THE HOMEOWNER IS RESPONSIBLE FOR ENSURING ALL EQUIPMENT OUTSIDE THE SCOPE OF WORK IS NEC COMPLIANT.



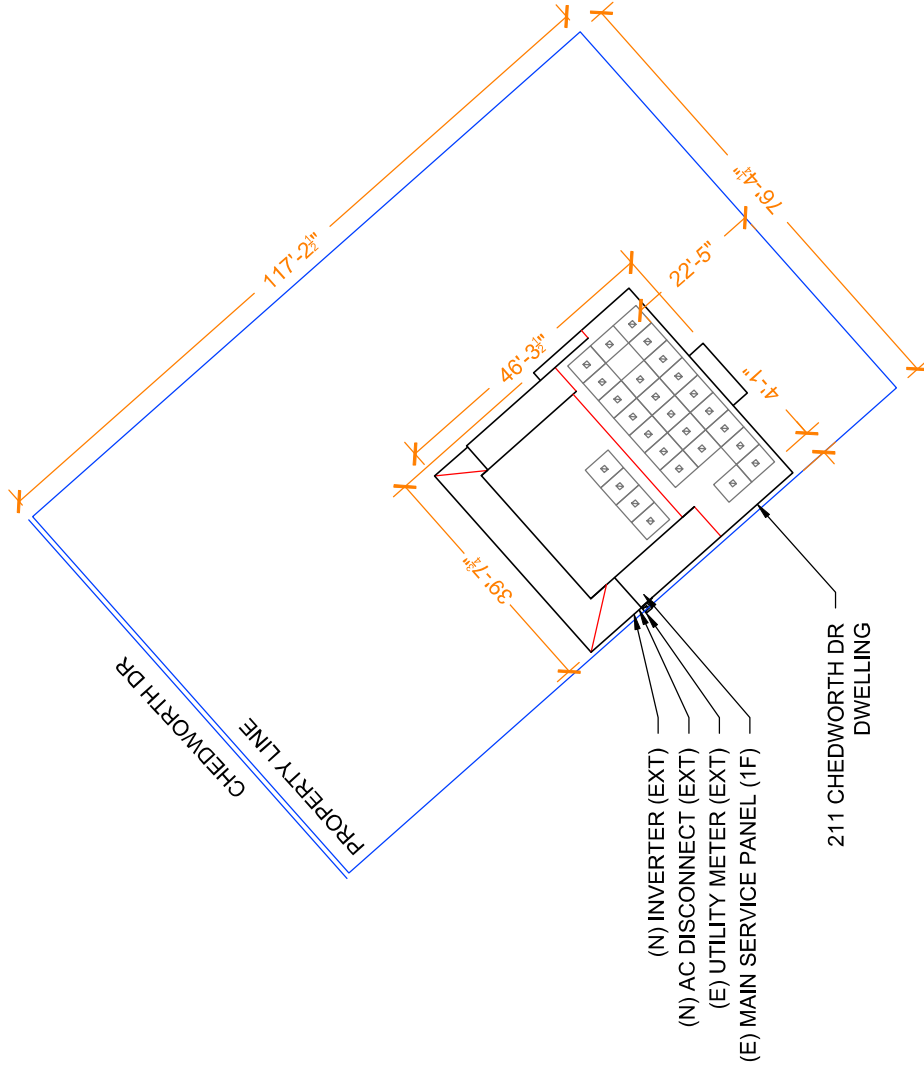
N1 - GENERAL NOTES
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AUTHOR: ----
DATE: 28/MAR/23
REV.: -

PROJECT: 211 CHEDWORTH DR
MUNICIPALITY: ANGIER, NC
ZIP CODE: 27501
CLIENT: MS. ERICK N DAVILA
 10.935 KW DC-STC / 7.600 KW AC

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PHONE: +1 843-720-1844
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SCALE: 1"=20'

- NOTES:
- SCALE AS SHOWN
 - ALL DIMENSIONS IN FEET UNLESS OTHERWISE STATED

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- SAFETY PLAN:
- INSTALLERS SHALL DRAW IN DESIGNATED SAFETY AREA AROUND HOME
 - INSTALLERS SHALL UPDATE NAME, ADDRESS, AND PHONE NUMBER OF NEAREST URGENT CARE FACILITY RELATIVE TO THE SITE BEFORE STARTING WORK

NEAREST URGENT CARE FACILITY
 NAME:
 ADDRESS:
 PHONE NUMBER:

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 PHONE: +1 843-720-1844
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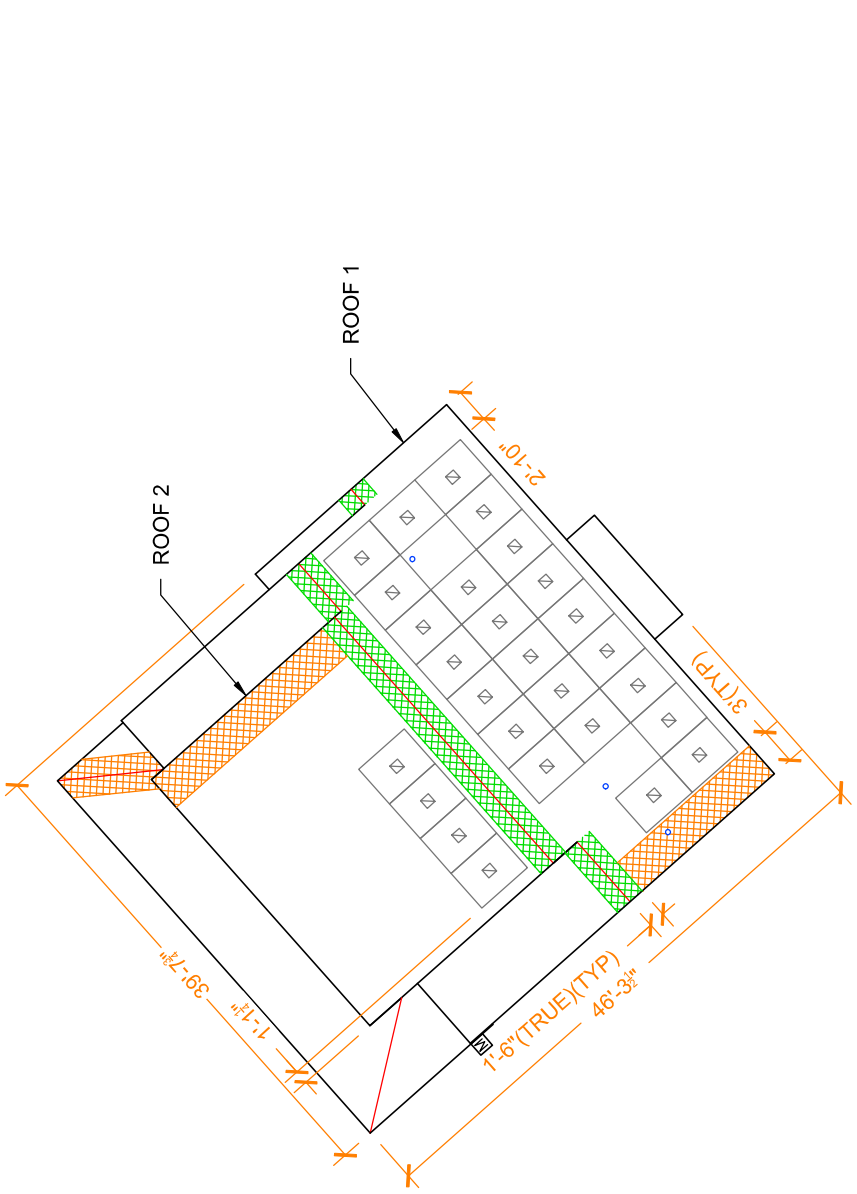
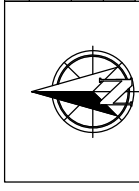
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G1 - SITE PLAN
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SITE INFORMATION

| ARRAY | AZIMUTH | PITCH | NO. OF PANELS | ARRAY AREA (SQ. FT.) | ROOF TYPE | ATTACHMENT | FRAME SIZE & FRAME TYPE | FRAME SPACING | MAX ATTACHMENT SPAN | OVERHANG |
|--------|---------|-------|---------------|----------------------|-------------------|---------------------|--------------------------------|---------------|---------------------|----------|
| ROOF 1 | 138° | 30° | 23 | 483.52 | COMPOSITE SHINGLE | QUICK MOUNT L-MOUNT | 2" X 4" PRE FABRICATED TRUSSES | 2'-0" | 4'-0" | 1'-4" |
| ROOF 2 | 318° | 30° | 4 | 84.09 | COMPOSITE SHINGLE | QUICK MOUNT L-MOUNT | 2" X 4" PRE FABRICATED TRUSSES | 2'-0" | 4'-0" | 1'-4" |



| LEGEND | |
|--------|----------------------|
| | METER |
| | 36" FIRE ACCESS PATH |
| | 18" FIRE VENTILATION |
| | PVC VENT |
| | METAL VENT |
| | VENT BOX |
| | STRUCTURAL DELIMITER |
| | SERVICE MAST |
| | SATELLITE |
| | ANTENNA |
| | SNOW GUARD |
| | DOWNPOUT |
| | MOUNT |
| | RAIL |
| | TOP CHORD |
| | CHIMNEY |

SCALE: 1"=10'

TOTAL ROOF AREA: 1924.62 FT²
 TOTAL ARRAY AREA: 567.61 FT²
 TOTAL ARRAY PERCENT COVERAGE: 29.49%

MODULE WATTAGE: 405 W
 NUMBER OF PANELS: 27
 SYSTEM SIZE: 10,935 kW

PROJECT: 211 CHEDWORTH DR
 MUNICIPALITY: ANGIER, NC
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 CLIENT: MS. ERICK N DAVILA
 10,935 KW DC-STC / 7,600 KW AC

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NOTES:
 - SOLAR PANEL LAYOUT SUBJECT TO CHANGE ACCORDING TO EXISTING CONDITIONS
 - SCALE AS SHOWN
 - ALL DIMENSIONS IN FEET UNLESS OTHERWISE STATED

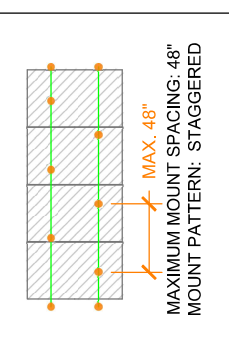
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G2 - PANEL LAYOUT
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PANELS DATA

| | |
|--|--------------------------|
| PANEL TYPE | VSUN 405-108BMH 405 W |
| NO. OF PANELS | 27 |
| PANEL SIZE | 67.80" X 44.65" |
| PANEL WEIGHT (LBS) | 47.18 |
| PANEL AREA (FT ²) | 21.02 |
| UNIT WEIGHT OF AREA (LBS/FT ²) | 2.24 |

MOUNTING PATTERN SAMPLE



MAXIMUM MOUNT SPACING: 48"
 MOUNT PATTERN: STAGGERED

ALL HARDWARE, INCLUDING MOUNTING AND RACKING, TO BE INSTALLED PER MANUFACTURER SPECIFICATIONS.

044877

DAVID C. HEINTZ

Exp. 12/31/23

Professional Engineer No. 1032

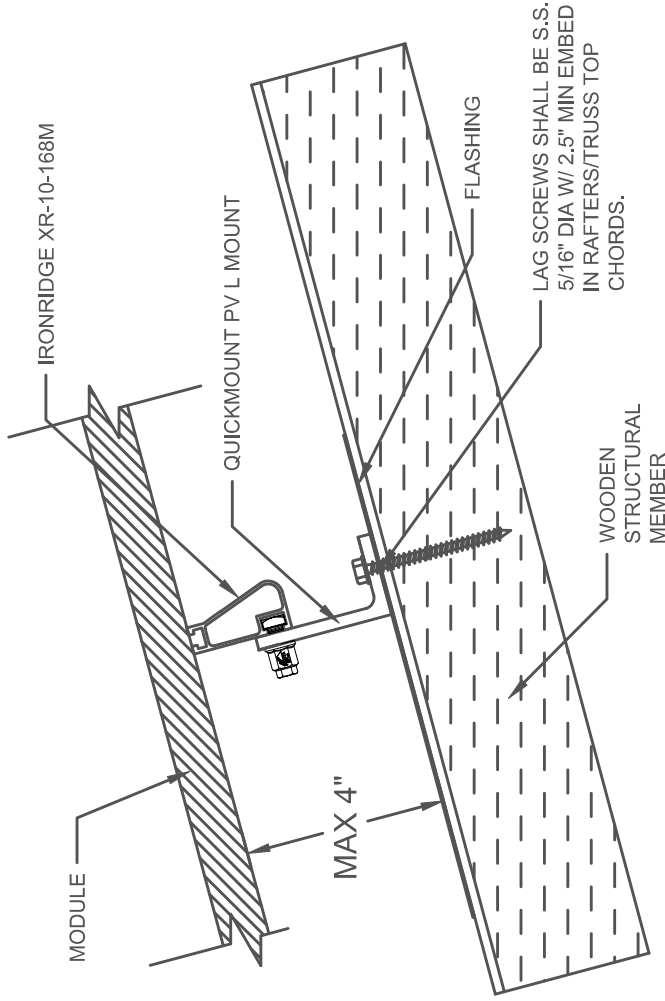
NC PE No. 044877

GBE Group, Inc.

Exp. 12/31/23

Professional Engineer No. 1032

NC PE No. 044877



SCALE: NTS

PANEL TYPE: VSUN 405-108BMH 405 W
 PANEL SIZE: 67.80" X 44.65"
 RACKING TYPE: IRONRIDGE XR-10-168M
 MOUNT TYPE: QUICK MOUNT L-MOUNT
 SOLAR SYSTEM DEAD LOAD: 3.0 PSF



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NOTES:

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 REV: -

G3 - MOUNTING DETAIL
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WARNING

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

CODE REF: [NEC 690.13(B)]
LOCATION: PLACE ON ALL DISCONNECTING MEANS WHERE ENERGIZED IN AN OPEN POSITION

WARNING

TURN OFF PHOTOVOLTAIC AC DISCONNECT PRIOR TO WORKING INSIDE PANEL

CODE REF: [NEC 110.27(C) & OSHA 1910.14(07)]
LOCATION: PLACE ON ALL COMBINER DISCONNECT, BREAKER PANEL & PULL BOXES

WARNING

THIS EQUIPMENT FED BY MULTIPLE SOURCES

TOTAL RATING OF ALL OVERCURRENT DEVICES EXCLUDING MAIN POWER SUPPLY SHALL NOT EXCEED CAPACITY OF BUSBAR

CODE REF: [NEC 705.12(B)(2)(b)]
LOCATION: PLACE THIS LABEL AT P.O.C. TO SERVICE DISTRIBUTION EQUIPMENT (I.E., MAIN PANEL OR SUB-PANEL) IF APPLICABLE

WARNING

THE DISCONNECTION OF THE GROUNDED CONDUCTOR(S) MAY RESULT IN OVERVOLTAGE ON THE EQUIPMENT

CODE REF: [NEC 690.31(f)]
LOCATION: PLACE ON ALL DISCONNECTING MEANS WHERE ENERGIZED IN AN OPEN POSITION

WARNING

DUAL POWER SOURCE
SECOND SOURCE IS PHOTOVOLTAIC SYSTEM

CODE REF: [NEC 705.12(B)(3) & 690.39]
LOCATION: PLACE LABEL ON ALL EQUIPMENT CONTAINING OVERCURRENT DEVICES IN CIRCUITS SUPPLYING POWER TO LOADS FROM MULTIPLE SOURCES

WARNING

POWER SOURCE OUTPUT CONNECTION
DO NOT RELOCATE THIS OVERCURRENT DEVICE

CODE REF: [NEC 705.12(B)(2)(b)]
LOCATION: PLACE LABEL ON ALL EQUIPMENT CONTAINING OVERCURRENT DEVICES IN CIRCUITS SUPPLYING POWER TO A BUSBAR OR CONDUCTORS SUPPLIED FROM MULTIPLE SOURCES

CAUTION

PHOTOVOLTAIC SYSTEM CIRCUIT IS BACKFEED

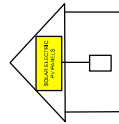
CODE REF: [NEC 705.12(B)(4) & 690.39]
LOCATION: PLACE LABEL ON ALL EQUIPMENT CONTAINING OVERCURRENT DEVICES IN CIRCUITS SUPPLYING POWER TO A BUSBAR OR CONDUCTORS SUPPLIED FROM MULTIPLE SOURCES

RAPID SHUTDOWN SWITCH FOR SOLAR PV SYSTEM

CODE REF: [NEC 690.56(C)(3)]
LOCATION: PLACE NO MORE THAN 1m (3FT) FROM SWITCH

SOLAR PV SYSTEM EQUIPPED WITH RAPID SHUTDOWN

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



CODE REF: [NEC 690.56(C)]
LOCATION: PLACE AT MAIN SERVICE PANEL

WARNING: PHOTOVOLTAIC POWER SOURCE

CODE REF: [NEC 690.31 (G)(3) & 690.31 (G)(4)]
LOCATION: PLACE ON ALL JUNCTION BOXES, EXPOSED RACEWAYS EVERY 10'

| | |
|---|-------|
| MAXIMUM VOLTAGE | 480 V |
| MAXIMUM CIRCUIT CURRENT | 30 A |
| MAX RATED OUTPUT CURRENT OF DC-TO-DC CONVERTER (IF INSTALLED) | 15 A |

CODE REF: [NEC 690.53]
LOCATION: PLACE AT INVERTER 1

DO NOT DISCONNECT UNDER LOAD

CODE REF: [NEC 690.15(C) & 690.31(E)(2)]
LOCATION: PLACE ON ALL DISCONNECTING MEANS WHERE ENERGIZED IN AN OPEN POSITION

PHOTOVOLTAIC AC DISCONNECT

RATED AC OUTPUT CURRENT: 32A
NOMINAL OPERATING AC VOLTAGE: 240V

CODE REF: [NEC 690.54]
LOCATION: PLACE AT P.O.C. TO SERVICE DISTRIBUTION EQUIPMENT / AC DISCONNECT / PULL BOXES

PHOTOVOLTAIC

AC DISCONNECT

CODE REF: [NEC 690.13(B)]
LOCATION: PLACE AT P.O.C. TO SERVICE DISTRIBUTION EQUIPMENT / AC DISCONNECT / PULL BOXES

PHOTOVOLTAIC

DC DISCONNECT

CODE REF: [NEC 690.13(B)]
LOCATION: PLACE ON DC DISCONNECT

NOTES:

- ALL LABELING USED OUTDOORS MUST BE ENGRAVED METAL, UV STABILIZED ENGRAVED PLASTIC OR OF A MATERIAL SUFFICIENTLY DURABLE TO WITHSTAND THE ENVIRONMENT INVOLVED. VALUES HAND WRITTEN OR IN WRITTEN IN MARKER ARE NOT ACCEPTABLE PER NEC 2017.
- LABELS USED INDOORS MAY BE MADE OF DURABLE VINYL OR PAPER
- DO NOT COVER ANY EXISTING MANUFACTURER APPLIED LABELS WITH INSTALLATION SPECIFIC LABELS
- LABEL COLORS CHOSEN PER NFPA 70 2017 DIRECTION THAT ANSI Z535-2011 BE USED
- REQUIREMENTS COMPLY WITH NEC 2017
- ADDITIONALLY, IT IS HIGHLY RECOMMENDED THAT THE INSTALLER ATTACH A LABEL WITH THE COMPANY NAME AND CONTACT INFORMATION AT THE INVERTER
- ALL WARNING SIGNS OR LABELS SHALL COMPLY WITH NEC 110.21(B)

FORMAT

- WHITE LETTERING ON A RED BACKGROUND
- MINIMUM 3/8 INCHES LETTER HEIGHT
- ALL LETTERS SHALL BE CAPITALIZED
- ARIAL OR SIMILAR FONT (NON-BOLD)

MATERIAL

REFLECTIVE, WEATHER RESISTANT MATERIAL SUITABLE FOR THE ENVIRONMENT (USE UL-969 AS STANDARD FOR WEATHER RATING), DURABLE ADHESIVE MATERIALS

E2 - WARNING LABELS

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WWW.PALMETTO.COM



David C. Hernandez
Professional Engineer
No. 044877
Exp. 12/31/2024
Palmetto
Engineer No. 132
N.C. P.E. No. 044877

CAUTION:
MULTIPLE SOURCES OF POWER
 POWER TO THIS SERVICE IS ALSO SUPPLIED FROM THE
 FOLLOWING SOURCES WITH DISCONNECTS LOCATED AS SHOWN

RAPID SHUTDOWN DEVICE
 AC DISCONNECT
 UTILITY METER
 MAIN SERVICE PANEL

IN EC 706.10 & NEC 706.11] CUSTOMER SERVICE PANEL, P/VAC DISCONNECT AND
 RAPID SHUTDOWN DEVICE



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E3 - PLACARD
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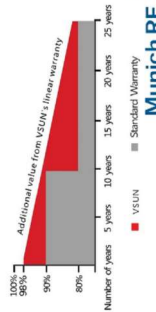
VSUN405-108BMH

405W Highest power output

20.74% Module efficiency

25years Material & Workmanship warranty

30years Linear power output warranty



- Micro Gap
- Up to 30% extra power generation yield from the back side
- Certified for salt/ammonia corrosion resistance
- Load certificates: wind to 2400Pa and snow to 5400Pa
- Lower LCOE

VSUN, a BNEF Tier-1 PV module manufacturer invested by Fuji Solar, has been committed to providing greener, cleaner and more intelligent renewable energy solutions. VSUN is dedicated to bringing reliable, customized and high-efficient products into various markets and customers worldwide



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A1 - PANELS SPECIFICATIONS
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最も信頼出来る再エネパートナー

Electrical Characteristics at Standard Test Conditions (STC)

| Module Type | VSUN405-108BMH | VSUN400-108BMH | VSUN395-108BMH | VSUN390-108BMH |
|---------------------------------|----------------|----------------|----------------|----------------|
| Maximum Power - Pmax (W) | 405 | 400 | 395 | 390 |
| Open Circuit Voltage - Voc (V) | 37.36 | 37.2 | 37.03 | 36.84 |
| Short Circuit Current - Isc (A) | 13.68 | 13.68 | 13.59 | 13.5 |
| Maximum Power Voltage - Vmp (V) | 31.16 | 31.17 | 31.12 | 31.05 |
| Maximum Power Current - Imp (A) | 12.82 | 12.84 | 12.75 | 12.66 |
| Module Efficiency | 20.74% | 20.68% | 20.23% | 19.97% |

Standard Test Conditions (STC): irradiance 1,000 W/m²; AM 1.5; module temperature 25°C. Pmax Sorting: 0-5W. Measuring Tolerance: ±3%.
Remark: Electrical data do not refer to a single module and they are not part of the offer. They only serve for comparison among different module types.

Electrical Characteristics with different rear side power gain(reference to 400 front)

| Pmax (W) | Voc (V) | Isc (A) | Vmp (V) | Imp (A) | Pmax gain |
|----------|---------|---------|---------|---------|-----------|
| 420 | 37.1 | 14.36 | 31.17 | 13.48 | 5% |
| 440 | 37.1 | 15.05 | 31.17 | 14.12 | 10% |
| 479 | 37.2 | 16.42 | 31.12 | 15.41 | 20% |
| 499 | 37.2 | 17.10 | 31.12 | 16.05 | 25% |

Temperature Characteristics

| NOCT | 45°C(L2+Q) | Maximum System Voltage [V] |
|---|----------------------------|----------------------------|
| 21.4kg <td>-0.27%/°C <td>1500</td> </td> | -0.27%/°C <td>1500</td> | 1500 |
| White toughened safety glass, 3.2 mm <td>-0.048%/°C <td>30</td> </td> | -0.048%/°C <td>30</td> | 30 |
| Cell encapsulation <td>-0.32%/°C <td>70%±10%</td> </td> | -0.32%/°C <td>70%±10%</td> | 70%±10% |
| Back Sheet <td></td> <td></td> | | |
| Cells | | |
| Junction Box | | |
| Cable&Connector | | |

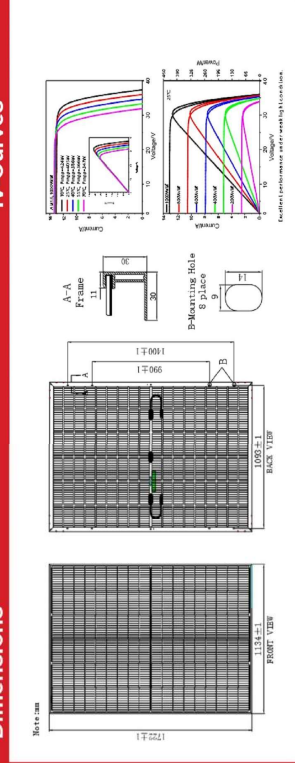
Material Characteristics

Dimensions 1722x1134x30mm (LxWxH)
Weight 21.4kg
Frame Black anodized aluminum profile
Glass White toughened safety glass, 3.2 mm
Cell Encapsulation EVA (Ethylene Vinyl Acetate) or POE
Back Sheet TPO (Thermally Stable Polymer) or PET
Cells 12-9 junction monocrystalline solar cells series strings
Junction Box IP68, 3 diodes
Cable&Connector Pozziat: 500 mm (cable length can be customized, 1-4 mm², compatible with MC4)

Packaging

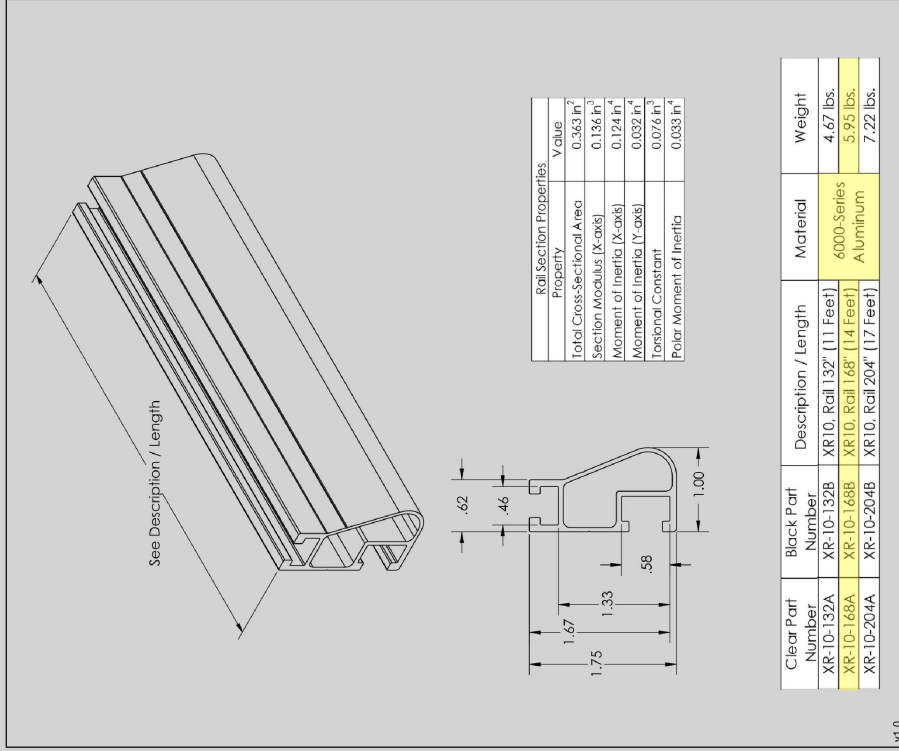
| Dimensions(LxWxH) | Temperature Range |
|-------------------|---|
| 1760x1125x1253mm | -40 °C to + 85 °C |
| Container 20 | Withstanding Hail |
| Container 40 | Maximum diameter of 25 mm with impact speed of 23 m/s |
| Container 40HC | Maximum Surface Load 5,400 Pa |
| | Application class class A |

Dimensions





XR10 Rail



| Rail Section Properties | |
|----------------------------|-----------------------|
| Property | Value |
| Total Cross-Sectional Area | 0.363 in ² |
| Section Modulus (X-axis) | 0.136 in ³ |
| Moment of Inertia (X-axis) | 0.124 in ⁴ |
| Moment of Inertia (Y-axis) | 0.032 in ⁴ |
| Torsional Constant | 0.076 in ⁴ |
| Polar Moment of Inertia | 0.033 in ⁴ |

| Clear Part Number | Black Part Number | Description / Length | Material | Weight |
|-------------------|-------------------|--------------------------|-------------|-----------|
| XR-10-132A | XR-10-132B | XR10_Rail 132" (11 Feet) | 6000-Series | 4.67 lbs. |
| XR-10-168A | XR-10-168B | XR10_Rail 168" (14 Feet) | Aluminum | 5.95 lbs. |
| XR-10-204A | XR-10-204B | XR10_Rail 204" (17 Feet) | Aluminum | 7.22 lbs. |

v1.0

UL Certification

The IronRidge Flush Mount, Tilt Mount, and Ground Mount Systems have been listed to UL 2703 by Intertek Group plc.

UL 2703 is the standard for evaluating solar mounting systems. It ensures these devices will maintain strong electrical and mechanical connections over an extended period of time in extreme outdoor environments.

Go to IronRidge.com/UFO



A2 - RACKING SPECIFICATIONS
Need on-site installation support?
 Palmetto Installation Hotline
 Call or Text: 1-843-258-5389
 InstallHotline@Palmetto.com

PROJECT: 211 CHEDWORTH DR
 MUNICIPALITY: ANGIER, NC
 ZIP CODE: 27501
 CLIENT: MS. ERICK N DAVILA
 10.935 KW DC-STC / 7.600 KW AC

PALMETTO
 PHONE: +1 843-720-1844
 WWW.PALMETTO.COM





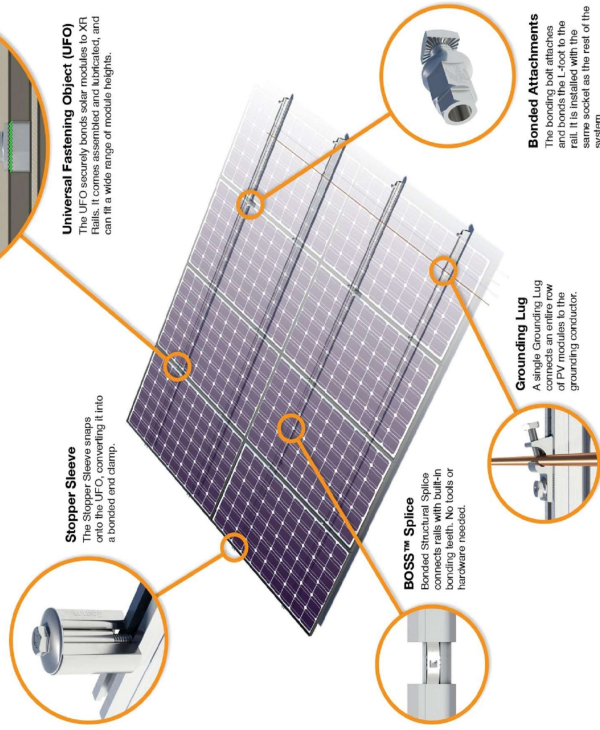
UFO Family of Components

Tech Brief

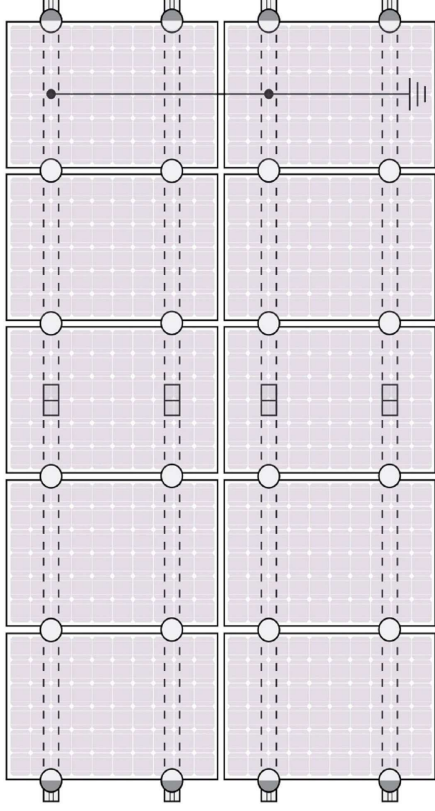
Simplified Grounding for Every Application

The UFO family of components eliminates the need for separate grounding hardware by bonding solar modules directly to IronRidge XR Rails. All system types that feature the UFO family—Flush Mount, Tilt Mount and Ground Mount—are fully listed to the UL 2703 standard.

UFO hardware forms secure electrical bonds with both the module and the rail, resulting in many parallel grounding paths throughout the system. This leads to safer and more reliable installations.



System Diagram



○ UFO ◐ Stopper Sleeve ● Grounding Lug ◻ BOSS™ Splice ≡ Ground Wire

Approved Enphase microinverters can provide equipment grounding of IronRidge systems, eliminating the need for grounding lugs and field installed equipment ground conductors (EGC). A minimum of two microinverters mounted to the same rail and connected to the same Enphase cable is required. Refer to installation manuals for additional details.

UL Certification

The IronRidge Flush Mount, Tilt Mount, and Ground Mount Systems have been listed to UL 2703 by Intertek Group plc.

UL 2703 is the standard for evaluating solar mounting systems. It ensures these devices will maintain strong electrical and mechanical connections over an extended period of time in extreme outdoor environments.

Go to IronRidge.com/UFO

| Feature | Cross-System Compatibility | | |
|-----------------------------------|--|------------|--------------|
| | Flush Mount | Tilt Mount | Ground Mount |
| XR Rails | ✓ | ✓ | XR1000 Only |
| UFO/Stopper | ✓ | ✓ | ✓ |
| BOSS™ Splice | ✓ | ✓ | N/A |
| Grounding Lugs | 1 per Row | 1 per Row | 1 per Array |
| Microinverters & Power Optimizers | Compatible with most MLPE manufacturers. Refer to system installation manual. | | |
| Fire Rating | Class A | Class A | N/A |
| Modules | Tested or Evaluated with over 400 Framed Modules. Refer to installation manuals for a detailed list. | | |

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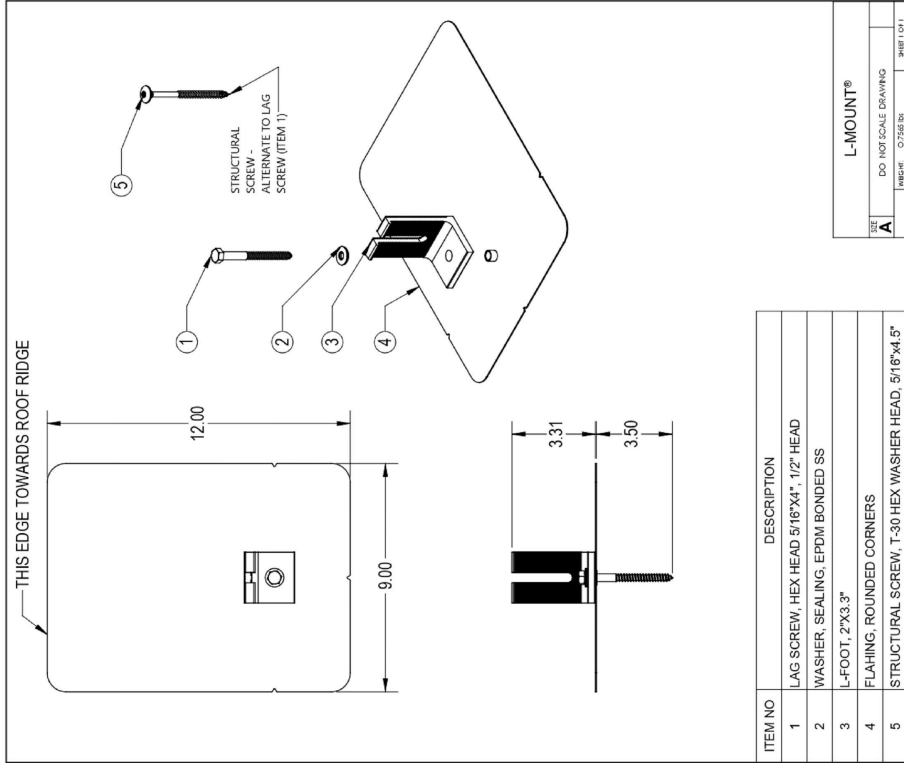


VSUN
VSUN modules with 30, 35 and 40 mm frames
VSUNxxx-Yz-aa
Where "Y" can be 60, 72, 108, 120, or 144; "z" can be M, P, MH, PH, or BWH; and "aa" can be blank, BB, BW, or DG

AUTHOR: ----
DATE: 28/MAR/23
REV: -

A3 - BONDING AND GROUNDING SPECIFICATIONS
Need on-site installation support?
Palmetto Installation Hotline
Call or Text: 1-843-258-5389
InstallHotline@Palmetto.com

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L-Mount MNI Rev 1.12

L-Mount® Installation Instructions

Installation Tools Required: tape measure, roofing bar, chalk line, stud finder, caulkin gun, sealant compatible with roofing materials, drill with 7/32" or 1/8" bit, drill or impact gun with 1/2" socket.

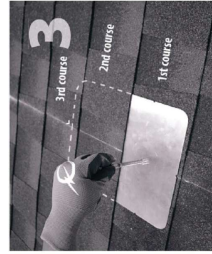
WARNING: QuickMount® products are NOT designed for and should NOT be used to anchor fall protection equipment.



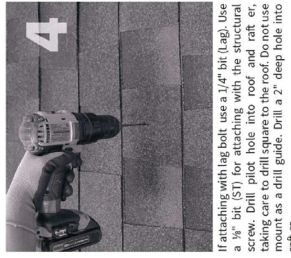
1 Locate, choose, and mark centers of rafters to be mounted. Select the courses of shingles where mounts will be placed.



2 Carefully lift composition roof shingle with roofing bar, just above placement of mount. Remove nails as required and backfill holes with approved material. See "Proper Flashing Placement" on next page.



3 Insert flashing between 1st and 2nd course. Slide up so top edge of flashing is at least 1/4" higher than the butt-edge of the 3rd course and lower than the butt-edge of 1st course. Mark center for drilling.



4 If attaching with lag bolt, use a 1/4" bit (Lag). Use a 3/8" bit (S1) for attaching with the structural screw. Drill pilot hole into roof and raft er, taking care to drill square to the roof. Do not use mount as a drill guide. Drill a 2" deep hole into raft er.



5 Clean off any sawdust, and fill hole with sealant compatible with roofing materials.



6 Place L-foot onto elevated flute and rotate L-foot to desired orientation.



7 Prepare lag bolt or structural screw with sealing washer. Using a 1/2-inch socket on an impact gun, drive prepared lag bolt through L-foot until L-foot can no longer easily rotate. **DO NOT over-torque.** NOTE: Structural screw can be driven with T-30 hex head bit.



8 You are now ready for the next of your choices. Follow all the directions of the roof manufacturer as well as the module manufacturer. NOTE: Make sure top of L-Foot makes solid contact with racking.

All roofing manufacturers' written instructions must also be followed by anyone modifying a roof system. Consult the roof manufacturer's specs and instructions prior to working on the roof.

© 2022 QuickMount All rights reserved. Visit www.quickmount.com or call 1-800-227-9523 for more information.

L-Mount MNI Rev 1.12



AUTHOR: ----

DATE: 28/MAR/23

REV: -

A4 - MOUNTING SPECIFICATIONS

Need on-site installation support?

Palmetto Installation Hotline

Call or Text: 1-843-258-5389

InstallHotline@Palmetto.com

PROJECT: 211 CHEDWORTH DR

MUNICIPALITY: ANGIER, NC

ZIP CODE: 27501

CLIENT: MS. ERICK N DAVILA

10.935 KW DC-STC / 7.600 KW AC

PALMETTO

PHONE: +1 843-720-1844

WWW.PALMETTO.COM



Single Phase Inverter with HD-Wave Technology for North America

SE3000H-US / SE3800H-US / SE5000H-US / SE6000H-US / SE7600H-US / SE10000H-US / SE11400H-US



Optimized installation with HD-Wave technology

- Specifically designed to work with power optimizers
- Record-breaking 99% weighted efficiency
- Quick and easy inverter commissioning directly from a smartphone using the SolarEdge Se/APP
- Fixed voltage inverter for longer strings
- Integrated arc fault protection and rapid shutdown for NEC 2014, NEC 2017 and NEC 2020 per article 690.11 and 690.12
- UL1741 SA certified, for CPUC Rule 21 grid compliance
- Small, lightweight, and easy to install both outdoors or indoors
- Built-in module-level monitoring
- Optional: Faster installations with built-in consumption metering (1% accuracy) and production revenue grade metering (0.5% accuracy, ANSI C12.20)

solarEdge.com



Single Phase Inverter with HD-Wave Technology for North America

SE3000H-US / SE3800H-US / SE5000H-US / SE6000H-US / SE7600H-US / SE10000H-US / SE11400H-US

| MODEL NUMBER | SE3000H-US | SE3800H-US | SE5000H-US | SE6000H-US | SE7600H-US | SE10000H-US | SE11400H-US |
|--|--------------------|------------|------------|------------|------------|-------------|-------------|
| APPLICABLE TO INVERTERS WITH PART NUMBER | SEXXXXH-AXXXX-BXX4 | | | | | | |
| OUTPUT | | | | | | | |

| | | | | | | | |
|---|-----------------------------|----------------------------|------|----------------------------|------|-------|------------------------------|
| Rated AC Power Output | 3000 | 3800 @ 240V 3300 @ 208V | 5000 | 6000 @ 240V 5000 @ 208V | 7600 | 10000 | 11400 @ 240V 10000 @ 208V |
| Maximum AC Power Output | 3000 | 3800 @ 240V 3300 @ 208V | 5000 | 6000 @ 240V 5000 @ 208V | 7600 | 10000 | 11400 @ 240V 10000 @ 208V |
| AC Output Voltage Min./Nom./Max. (21 - 240 - 264) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| AC Output Voltage Min./Nom./Max. (188 - 208 - 229) | - | ✓ | - | - | - | - | ✓ |
| AC Frequency (Nominal) | 59.3 - 60 - 60.5° | | | | | | |
| Maximum Continuous Output Current @240V | 12.5 | 16 | 21 | 25 | 32 | 42 | 47.5 |
| Maximum Continuous Output Current @208V | - | 16 | - | 24 | - | - | 48.5 |
| Power factor | 1, Adjustable -0.85 to 0.85 | | | | | | |
| GFDI Threshold | 1 | | | | | | |
| UL983 Monitoring, Identifying Protection, Country Configurable Thresholds | Yes | | | | | | |

| INPUT | | | | | | | | |
|---|---------------------------|------|------|------|-------|-------|-------|--------------------------|
| Maximum DC Power @240V | 4650 | 5900 | 7750 | 9300 | 11800 | 15500 | 17650 | |
| Maximum DC Power @208V | - | 5100 | - | 7750 | - | - | 15500 | |
| Transformer-less, Ungrounded | Yes | | | | | | | |
| Maximum Input Voltage | 480 | | | | | | | |
| Normal DC Input Voltage | 380 | | | | | | | |
| Maximum Input Current @240V ¹⁾ | 8.5 | 10.5 | 13.5 | 16.5 | 20 | 27 | 30.5 | |
| Maximum Input Current @208V ¹⁾ | - | 9 | - | 13.5 | - | - | 27 | |
| Max. Input Short Circuit Current | 45 | | | | | | | |
| Reverse-Battery Protection | Yes | | | | | | | |
| Ground-Fault Isolation Detection | 600k Ω Sensitivity | | | | | | | |
| Maximum Inverter Efficiency | 99 | 99.2 | | | | | 99 | 99 @ 240V 98.5 @ 208V |
| CEC Weighted Efficiency | 99 | | | | | | | |
| Nighttime Power Consumption | < 2.5 | | | | | | | |

| ADDITIONAL FEATURES | |
|--|--|
| Supported Communication Interfaces | RS-485, Ethernet, ZigBee (optional), Cellular (optional) |
| Revenue Grade Metering, ANSI C12.20 | Optional ¹⁾ |
| Consumption Metering | Optional ¹⁾ |
| With the Se/APP mobile application using Built-in Wi-Fi, Access Point for Local Connection | |
| Reverse Current Protection, NEC 2014, NEC 2017 and IEC 60361-20 | Automatic Rapid Shutdown upon AC Grid Disconnect |

| STANDARD COMPLIANCE | |
|---------------------------|---|
| Safety | UL1741, UL1741 SA, UL9698, CSA C22.2, Canadian ARC1 (according to TLL M-07) |
| Grid Connection Standards | IEEE1547, IEEE1547-2018, IEEE1547-2018 Addendum 1, IEEE1547-2018 Addendum 2, IEEE1547-2018 Addendum 3, IEEE1547-2018 Addendum 4, IEEE1547-2018 Addendum 5, IEEE1547-2018 Addendum 6, IEEE1547-2018 Addendum 7, IEEE1547-2018 Addendum 8, IEEE1547-2018 Addendum 9, IEEE1547-2018 Addendum 10, IEEE1547-2018 Addendum 11, IEEE1547-2018 Addendum 12, IEEE1547-2018 Addendum 13, IEEE1547-2018 Addendum 14, IEEE1547-2018 Addendum 15, IEEE1547-2018 Addendum 16, IEEE1547-2018 Addendum 17, IEEE1547-2018 Addendum 18, IEEE1547-2018 Addendum 19, IEEE1547-2018 Addendum 20, IEEE1547-2018 Addendum 21, IEEE1547-2018 Addendum 22, IEEE1547-2018 Addendum 23, IEEE1547-2018 Addendum 24, IEEE1547-2018 Addendum 25, IEEE1547-2018 Addendum 26, IEEE1547-2018 Addendum 27, IEEE1547-2018 Addendum 28, IEEE1547-2018 Addendum 29, IEEE1547-2018 Addendum 30, IEEE1547-2018 Addendum 31, IEEE1547-2018 Addendum 32, IEEE1547-2018 Addendum 33, IEEE1547-2018 Addendum 34, IEEE1547-2018 Addendum 35, IEEE1547-2018 Addendum 36, IEEE1547-2018 Addendum 37, IEEE1547-2018 Addendum 38, IEEE1547-2018 Addendum 39, IEEE1547-2018 Addendum 40, IEEE1547-2018 Addendum 41, IEEE1547-2018 Addendum 42, IEEE1547-2018 Addendum 43, IEEE1547-2018 Addendum 44, IEEE1547-2018 Addendum 45, IEEE1547-2018 Addendum 46, IEEE1547-2018 Addendum 47, IEEE1547-2018 Addendum 48, IEEE1547-2018 Addendum 49, IEEE1547-2018 Addendum 50, IEEE1547-2018 Addendum 51, IEEE1547-2018 Addendum 52, IEEE1547-2018 Addendum 53, IEEE1547-2018 Addendum 54, IEEE1547-2018 Addendum 55, IEEE1547-2018 Addendum 56, IEEE1547-2018 Addendum 57, IEEE1547-2018 Addendum 58, IEEE1547-2018 Addendum 59, IEEE1547-2018 Addendum 60, IEEE1547-2018 Addendum 61, IEEE1547-2018 Addendum 62, IEEE1547-2018 Addendum 63, IEEE1547-2018 Addendum 64, IEEE1547-2018 Addendum 65, IEEE1547-2018 Addendum 66, IEEE1547-2018 Addendum 67, IEEE1547-2018 Addendum 68, IEEE1547-2018 Addendum 69, IEEE1547-2018 Addendum 70, IEEE1547-2018 Addendum 71, IEEE1547-2018 Addendum 72, IEEE1547-2018 Addendum 73, IEEE1547-2018 Addendum 74, IEEE1547-2018 Addendum 75, IEEE1547-2018 Addendum 76, IEEE1547-2018 Addendum 77, IEEE1547-2018 Addendum 78, IEEE1547-2018 Addendum 79, IEEE1547-2018 Addendum 80, IEEE1547-2018 Addendum 81, IEEE1547-2018 Addendum 82, IEEE1547-2018 Addendum 83, IEEE1547-2018 Addendum 84, IEEE1547-2018 Addendum 85, IEEE1547-2018 Addendum 86, IEEE1547-2018 Addendum 87, IEEE1547-2018 Addendum 88, IEEE1547-2018 Addendum 89, IEEE1547-2018 Addendum 90, IEEE1547-2018 Addendum 91, IEEE1547-2018 Addendum 92, IEEE1547-2018 Addendum 93, IEEE1547-2018 Addendum 94, IEEE1547-2018 Addendum 95, IEEE1547-2018 Addendum 96, IEEE1547-2018 Addendum 97, IEEE1547-2018 Addendum 98, IEEE1547-2018 Addendum 99, IEEE1547-2018 Addendum 100 |
| Emissions | FCC Part 15 Class B |

| INSTALLATION SPECIFICATIONS | |
|---|---------------------------------------|
| AC Output Cordset Size / AWG Range | 1" Maximum / 14-4 AWG |
| DC Input Cordset Size / AWG Range | 1" Maximum / 12-Straps / 14-6 AWG |
| DC Input Conduit Size / # of Straps / AWG Range | 1" Maximum / 13-Straps / 14-6 AWG |
| Dimensions with Safety Switch (HxWxD) | 17.7 x 14.6 x 6.8 / 14.5 x 3.70 x 7.4 |
| Dimensions with Safety Switch | 22 / 10 |
| Weight with Safety Switch | 25.1 / 11.4 |
| Weight | 26.2 / 11.9 |
| Weight | 38.8 / 17.6 |
| Weight | 45.0 |
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| Weight | 2895.0 |
| Weight | 2905.0 |
| Weight | 2915.0 |
| Weight | 2925.0 |
| Weight | 2935.0 |
| Weight | 2945.0 |

