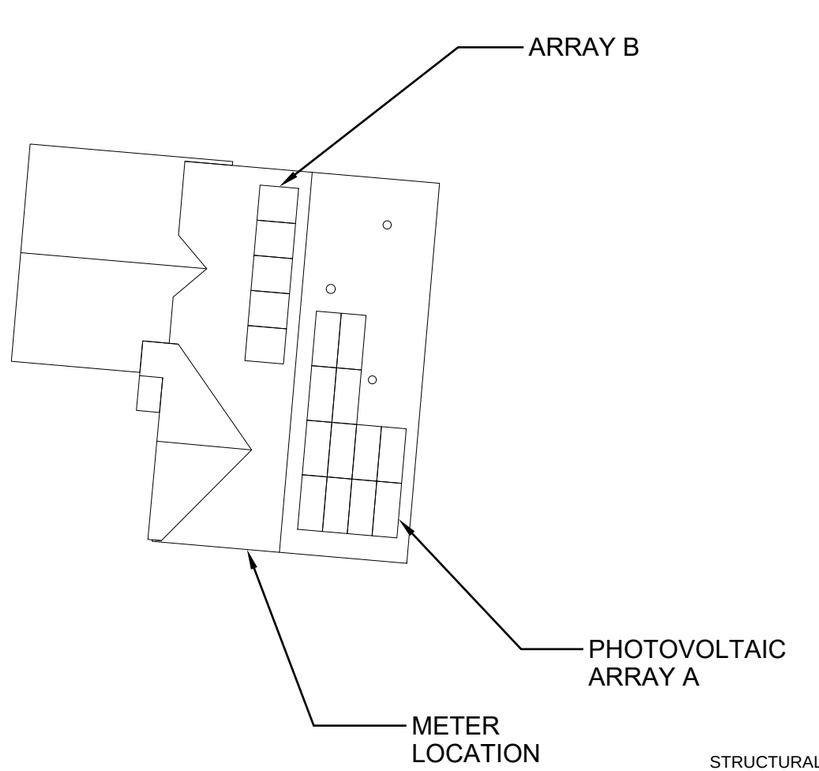
SHEET INDEX:



AUTHORITIES HAVING JURISDICTION:
BUILDING: HARNETT COUNTY
ZONING: HARNETT COUNTY
ELECTRICAL: HARNETT COUNTY
UTILITY: CENTRAL EMC

REFERENCE CODES:

ELECTRICAL CODE:	2017 NEC
BUILDING CODE(S):	2018 IRC WITH NORTH CAROLINA AMENDMENTS
FIRE CODE:	2018 IFC WITH NORTH CAROLINA AMENDMENTS
ENGINEERING:	ASCE 7-10

DESIGN CRITERIA:

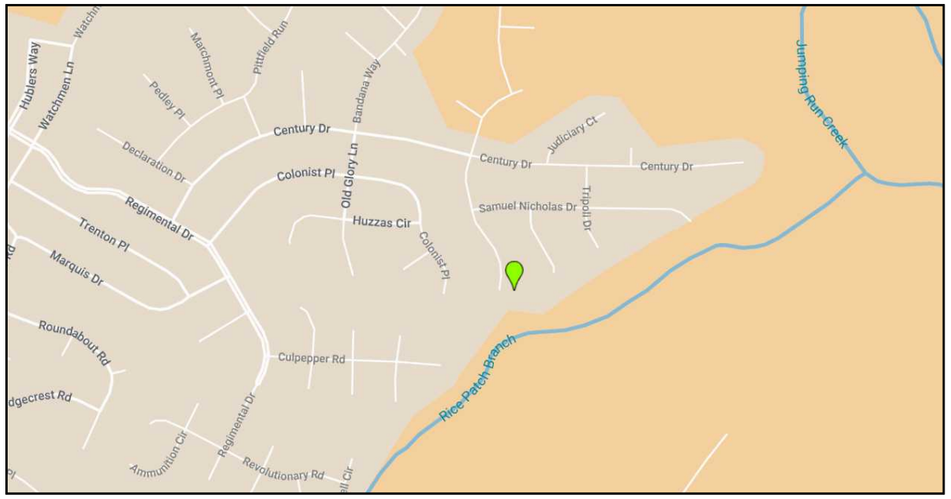
GROUND SNOW LOAD:	10 PSF
DESIGN WIND SPEED:	120 MPH
DESIGN EXPOSURE CATEGORY:	B
DEAD LOAD:	2.94 PSF
AVERAGE HIGH TEMPERATURE:	34°C
ASHRAE LOW TEMPERATURE:	-9°C

SYSTEM ATTRIBUTES	QTY
Trina 420	17
TESLA 7.6KW SOLAR INVERTER	1

SYSTEM SIZE
7.600 kW-AC/ 7.140 kW-DC

NAME	EMAIL	PHONE	TITLE
ROBERT PARKER	ROBERT.PARKER@CAPEFEARSOLARSYSTEMS.COM	910-232-6288	CHIEF OPERATING OFFICER
DANIEL CAVANAGH	DANIEL.CAVANAGH@CAPEFEARSOLARSYSTEMS.COM	910-599-0428	RESIDENTIAL PROJECT MANAGER
WILLIAM PARKER	WILLIAM.PARKER@CAPEFEARSOLARSYSTEMS.COM	910-777-3749	COMMERCIAL PROJECT ASSOCIATE
MICHAEL HORAN	MICHAEL.HORAN@CAPEFEARSOLARSYSTEMS.COM	336-404-0511	PROJECT DEVELOPMENT COORDINATOR
JOHN NOVAK	JOHN.NOVAK@CAPEFEARSOLARSYSTEMS.COM	910-622-7361	SOLAR DESIGNER
DEREK MADRID	DEREK.MADRID@CAPEFEARSOLARSYSTEMS.COM	910-574-4229	SOLAR SITE SURVEYOR

01 G-01 **SITE SKETCH**
SCALE: 1:240



02 G-01 **LOCATION MAP (VICINITY)**

STRUCTURAL REVIEW PROVIDED BY:
RONALD P. BITTLER, PE
RB ENGINEERING, INC. (C-2499)
168 QUADE DRIVE
CARY, NC 27513
919-677-9662
PROJECT #RB-25332

Ron Bittler, PE
Digitally signed by Ron Bittler, PE
DN: cn=Ron Bittler, PE, o, ou, email=rbittler@rbengineering.com, c=US
Date: 2025.02.28 09:41:30 -05'00'

CAPE FEAR SOLAR SYSTEMS
910 S. 2nd St.
Wilmington, NC 28401
910-409-5533
GC LIC. NO. : 65677
ELEC. LIC. NO. : U-33321

7.14 kW DC PV SYSTEM
REUBEN FORNAH
183 Tun Tavern Dr, Cameron, NC 28326

COVER

NORTH CAROLINA PROFESSIONAL SEAL 025611 ENGINEER RONALD P. BITTLER
STRUCTURAL
02.28.2025

REVISION LIST

#	REV. DATE	DESC.

DATE:	February 28, 2025
DRAWN BY:	JPN

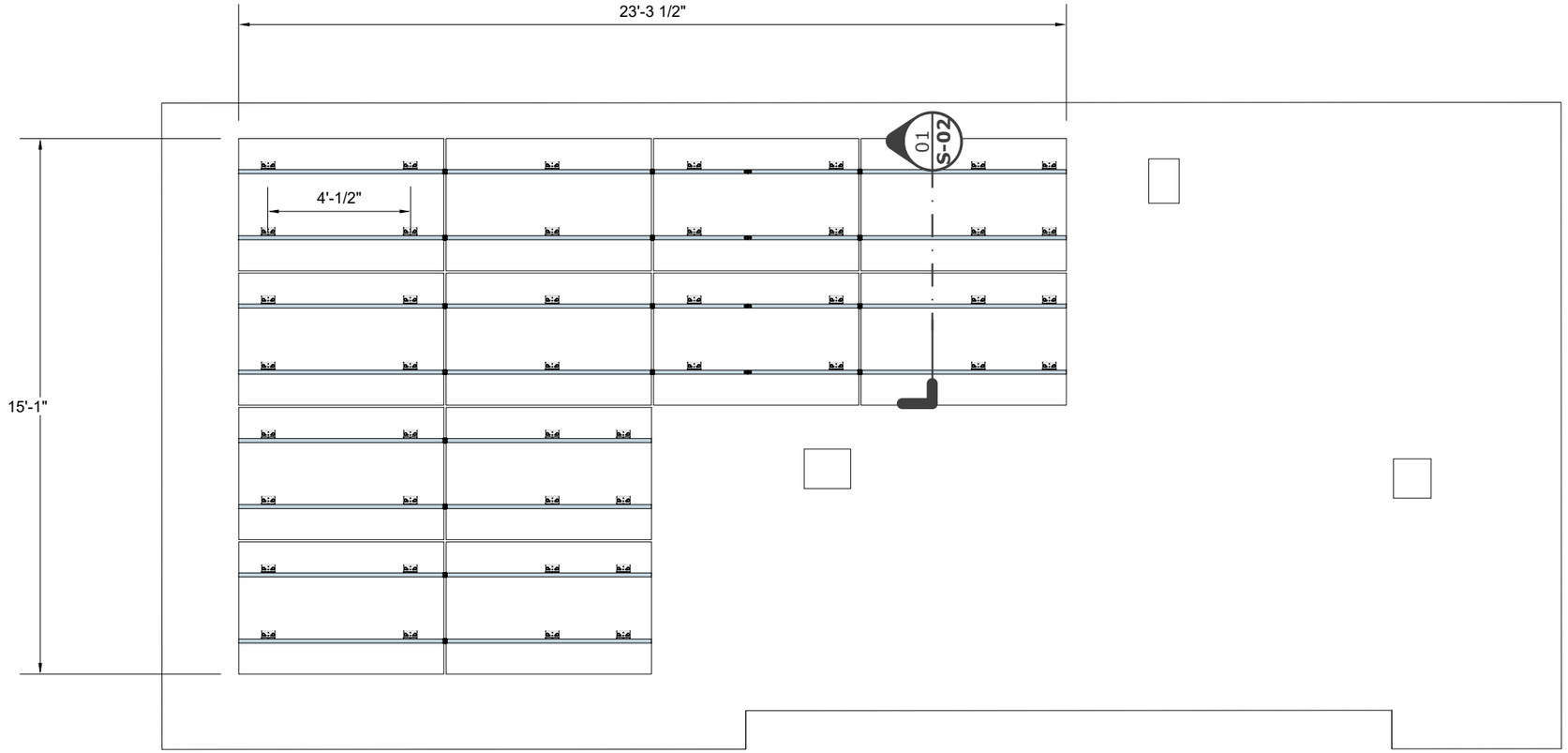
Sheet No.
G-01

STRUCTURAL NOTES

1. ROOF MOUNT RACKING SYSTEM & PV ARRAY TO BE INSTALLED IN STRICT ACCORDANCE WITH THESE DRAWINGS & MFG'S RECOMMENDATIONS. MINOR SPACING MODIFICATIONS ARE ACCEPTABLE TO ACCOMODATE EXISTING ROOF STRUCTURE MEMBERS

2. EXISTING ROOF STRUCTURE HAS BEEN INCLUDED IN THE STRUCTURAL EVALUATION AND FOUND SUITABLE FOR THIS INSTALLATION

3. ALL ATTACHMENT BOLTS SHALL BE INSTALLED IN THE MIDDLE THIRD OF THE RAFTER (OR TRUSS) THICKNESS



01 / S-01 PLAN - ARRAY A LAYOUT
SCALE: 1/4" = 1'

CAPE FEAR SOLAR SYSTEMS
910 S. 2nd St.
Wilmington, NC 28401
910-409-5533

GC LIC. NO. : 65677
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7.14 kW DC PV SYSTEM
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183 Tun Tavern Dr, Cameron, NC 28326

ARRAY A LAYOUT

NORTH CAROLINA PROFESSIONAL SEAL 025611 ENGINEER RONALD P. BITTLER

02.28.2025

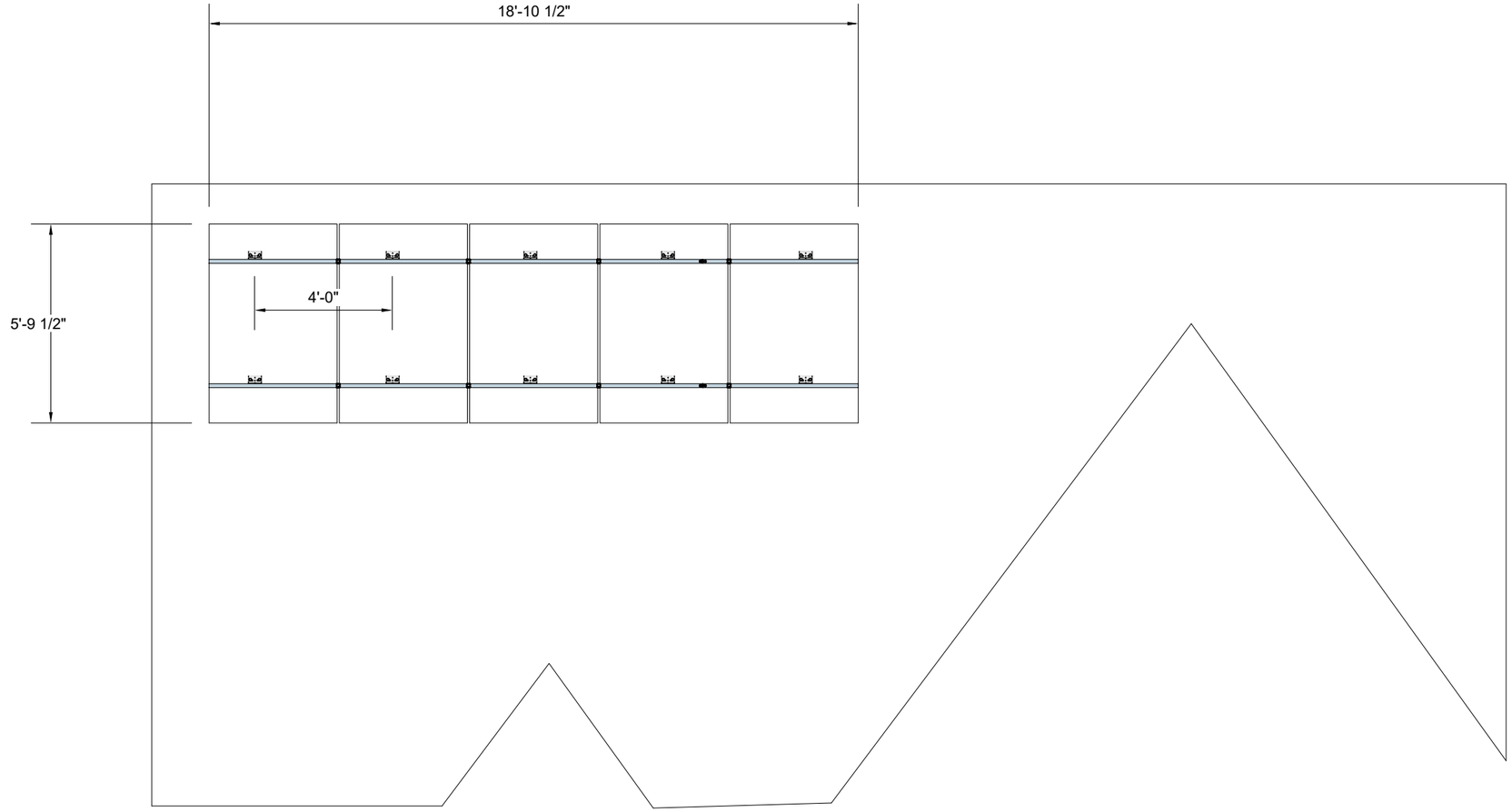
REVISION LIST

#	REV. DATE	DESC.

DATE:	**February 28, 2025**
DRAWN BY:	**JPN**

Sheet No.

S-01



01
S-02

PLAN - ARRAY B LAYOUT
SCALE: 1/4" = 1'

CAPE FEAR SOLAR SYSTEMS
910 S. 2nd St.
Wilmington, NC 28401
910-409-5533

GC LIC. NO. : 65677
ELEC. LIC. NO. : U-33321

7.14 kW DC PV SYSTEM
REUBEN FORNAH
183 Tun Tavern Dr, Cameron, NC 28326

ARRAY B LAYOUT

NORTH CAROLINA PROFESSIONAL SEAL 025611 ENGINEER RONALD P. BITTLER

02.28.2025

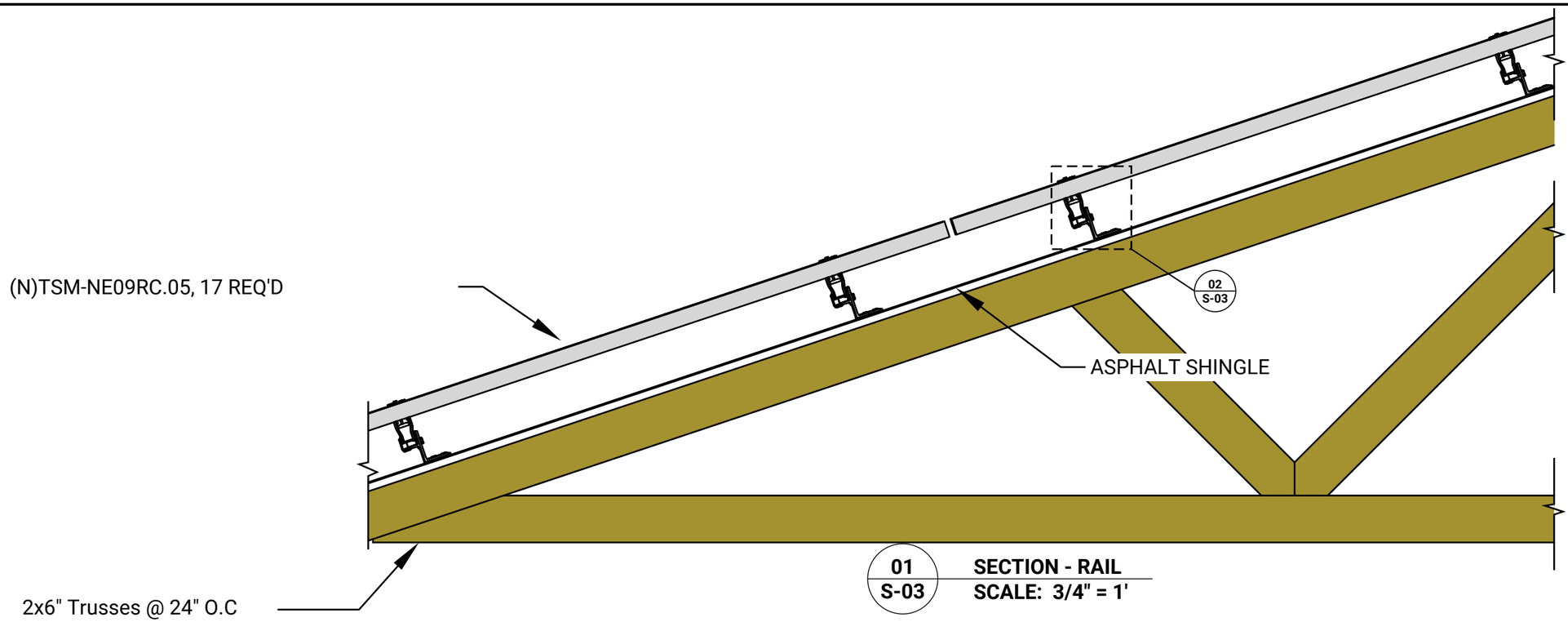
REVISION LIST

#	REV. DATE	DESC.

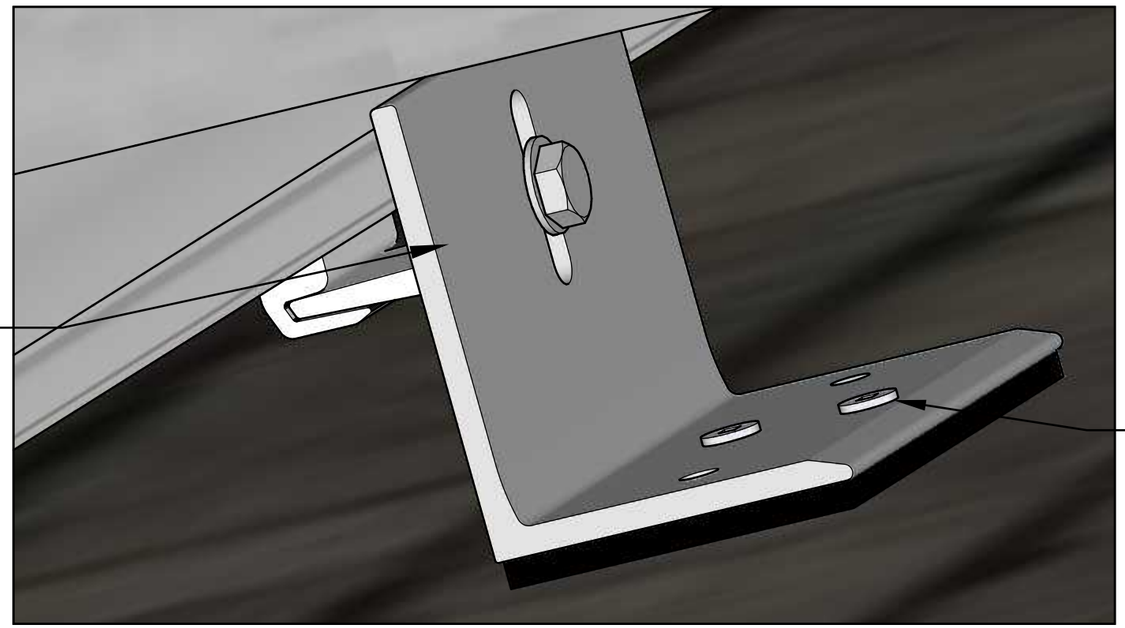
DATE:	**February 28, 2025**
DRAWN BY:	**JPN**

Sheet No.

S-02



01 / S-03 **SECTION - RAIL**
SCALE: 3/4" = 1'



02 / S-03 **DETAIL - ANCHORFOOT**
SCALE: 3" = 1'

CAPE FEAR SOLAR SYSTEMS
910 S. 2nd St.
Wilmington, NC 28401
910-409-5533

GC LIC. NO. : 65677
ELEC. LIC. NO. : U-33321

7.14 kW DC PV SYSTEM
REUBEN FORNAH
183 Tun Tavern Dr, Cameron, NC 28326

ASSEMBLY DETAILS

NORTH CAROLINA PROFESSIONAL SEAL 025611 ENGINEER RONALD P. BITTLER

02.28.2025

REVISION LIST

#	REV. DATE	DESC.

DATE:	**February 28, 2025**
DRAWN BY:	**JPN**

Sheet No.

S-03

Vertex S+

BACKSHEET MONOCRYSTALLINE MODULE

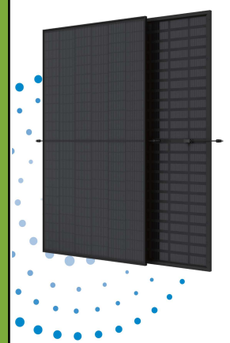
PRODUCT: TSM-NE09RC.05

PRODUCT RANGE: 400-430W

430W
MAXIMUM POWER OUTPUT

0~+5W
POSITIVE POWER TOLERANCE

21.5%
MAXIMUM EFFICIENCY



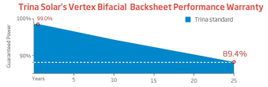
Small in size, bigger on power
- Up to 430W, 21.5% module efficiency with high density interconnect technology
- Reduce installation cost with higher power bin and efficiency
- Boost performance in warm weather with low temperature coefficient and operating temperature

High Reliability
- Innovative non-destructive cutting for improved mechanical resistance and strength
- Excellent fire rating, weather resistance, salt spray, sand dust, ammonia performance which is fully applicable in coastal, high temperature, humidity area and harsh environment

Ultra-low Degradation, longer warranty, higher output
- First-year degradation 1% and annual degradation at 0.4%
- Up to 25 years product warranty and 25 years power warranty

Universal solution for residential and C&I rooftops
- Easy for integration, designed for compatibility with existing mainstream inverters and diverse mounting systems
- Perfect size and low weight for handling and installation
- Most valuable solution on low load capacity rooftops (weight similar to backsheet version)
- Mechanical performance up to 6000 Pa positive load and 4000 Pa negative load

Trina Solar's Vertex Bifacial Backsheet Performance Warranty



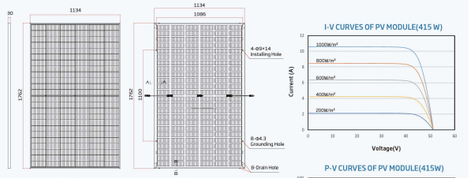
Comprehensive Products and System Certificates

IEC61215/IEC61730/IEC61701/IEC62716/UL61730
ISO 9001: Quality Management System
ISO 14001: Environmental Management System
ISO14064: Greenhouse Gases Emissions Verification
ISO45001: Occupational Health and Safety Management System

Trinasolar

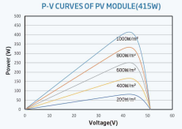
Vertex S+ BACKSHEET MONOCRYSTALLINE MODULE

DIMENSIONS OF PV MODULE(mm)



I-V CURVES OF PV MODULE(415 W)

P-V CURVES OF PV MODULE(415W)



ELECTRICAL DATA (STC)

Peak Power Watts-Pmax (Wp)*	400	405	410	415	420	425	430
Power Tolerance-PMAX (W)	0~+5						
Maximum Power Voltage-Vmp (V)	41.3	41.7	42.1	42.5	42.8	43.2	43.6
Maximum Power Current-Imp (A)	9.68	9.71	9.73	9.77	9.80	9.84	9.87
Open Circuit Voltage-Voc (V)	49.2	49.6	50.1	50.5	50.9	51.4	51.8
Short Circuit Current-Isc (A)	10.30	10.33	10.37	10.40	10.43	10.47	10.50
Module Efficiency-η m (%)	20.0	20.3	20.5	20.8	21.0	21.3	21.5

STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM1.5. *Measuring tolerance: ±3%.

Electrical characteristics with different power bin (reference to 10% irradiance ratio)

Total Equivalent power-Pmax (Wp)	426	431	437	442	447	453	458
Maximum Power Voltage-Vmr (V)	41.3	41.7	42.1	42.5	42.8	43.2	43.6
Maximum Power Current-Imr (A)	10.31	10.34	10.36	10.41	10.44	10.48	10.51
Open Circuit Voltage-Voc (V)	49.2	49.6	50.1	50.5	50.9	51.4	51.8
Short Circuit Current-Isc (A)	10.97	11.00	11.04	11.08	11.11	11.15	11.18
Irradiance ratio (rear/front)				10%			

Power Bifaciality:10±5%.

ELECTRICAL DATA (NOCT)

Maximum Power-Pmax (Wp)	312	308	312	316	319	324	328
Maximum Power Voltage-Vmr (V)	38.6	39.0	39.3	39.7	40.0	40.4	40.7
Maximum Power Current-Imr (A)	7.88	7.91	7.93	7.96	7.98	8.01	8.04
Open Circuit Voltage-Voc (V)	46.6	47.0	47.5	47.8	48.2	48.7	49.1
Short Circuit Current-Isc (A)	8.30	8.32	8.36	8.38	8.41	8.44	8.46

NOCT: Irradiance at 800W/m², Ambient Temperature 20°C, Wind Speed 1m/s.

MECHANICAL DATA

Solar Cells	Topcon Bifacial
No. of cells	144cells
Module Dimensions	1762×1134×30 mm (69.37×44.65×1.18 inches)
Weight	21.3kg (47.0 lb)
Front Glass	3.2 mm (0.126inches), High-Transmission, Tempered Glass
Encapsulant material	POE/EVA
BackSheet	Black Grid Transparent Backsheet
Frame	30mm (1.18 inches) Anodized Aluminium Alloy, Black
J-Box	IP 68 rated
Cables	Photovoltaic Technology Cable 4.0mm² (0.006 inches²) Landscape:N 1100 mm/ P1100 mm(43.31/43.31 inches)
Connector	MC4 EVO2
Fire Type	Type 1 or Type2

TEMPERATURE RATINGS

NOCT(nominal operating cell temperature)	43°C (±2°C)
Temperature Coefficient of Pmax	- 0.30%/°C
Temperature Coefficient of Voc	- 0.24%/°C
Temperature Coefficient of Isc	0.04%/°C

MAXIMUM RATINGS

Operational Temperature	-40~+85°C
Maximum System Voltage	1500V DC (IEC)
Max Series Fuse Rating	25 A

WARRANTY
- 25 year Product Workmanship Warranty
- 25 year Power Warranty
- 1% first year degradation
- 0.4% Annual Power Attenuation

(Please refer to product warranty for details)

PACKAGING CONFIGURATION

Modules per box: 35 pieces
Modules per 40' container: 750 pieces
Pallet dimensions (L x W x H): 1800 x 1135 x 1259 mm
Pallet weight: 825 kg (1827 lb)

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT.

Version number: TSM_NA_EN_2023_A

www.trinasolar.com

Trinasolar

pe.eaton.com

Eaton general duty cartridge fuse safety switch

DG222NRB

UPC:782113144221

Dimensions:
- **Height:** 14.37 IN
- **Length:** 7.35 IN
- **Width:** 8.4 IN

Weight:10 LB

Notes: Maximum hp ratings apply only when dual element fuses are used. 3-Phase hp rating shown is a grounded B phase rating, UL listed.

Warranties:
- Eaton Selling Policy 25-000, one (1) year from the date of installation of the Product or eighteen (18) months from the date of shipment of the Product, whichever occurs first.

Specifications:
- **Type:** General duty, cartridge fused
- **Amperage Rating:** 60A
- **Enclosure:** NEMA 3R
- **Enclosure Material:** Painted galvanized steel
- **Fuse Class Provision:** Class H fuses
- **Fuse Configuration:** Fusible with neutral
- **Number Of Poles:** Two-pole
- **Number Of Wires:** Three-wire
- **Product Category:** General duty safety switch
- **Voltage Rating:** 240V

Supporting documents:
- Eatons Volume 2-Commercial Distribution
- Eaton Specification Sheet - DG222NRB

Certifications:
- UL Listed

Product compliance: No Data

SOLAR INVERTER

Tesla Solar Inverter provides DC to AC conversion and integrates with the Tesla ecosystem, including Solar Panels, Solar Roof, Powerwall, and vehicle charging, to provide a seamless sustainable energy experience.

KEY FEATURES
- Integrated rapid shutdown, arc fault, and ground fault protection
- No neutral wire simplifies installation
- 2x the standard number of MPPTs for high production on complex roofs

ELECTRICAL SPECIFICATIONS

MODEL NUMBER	1534000-xx-y	1538000-xx-y
OUTPUT (AC)	3.8 kW	7.6 kW
Nominal Power	3,800 W	7,600 W
Maximum Apparent Power	3,328 VA at 208 V 3,840 VA at 240 V	6,656 VA at 208 V 7,680 VA at 240 V
Maximum Continuous Current	16 A	32 A
Breaker (Overcurrent Protection)	20 A	40 A
Nominal Power Factor	1 - 0.9 (leading / lagging)	
THD (at Nominal Power)	<5%	
INPUT (DC)		
MPPT	2	4
Input Connectors per MPPT	1-2	1-2-1-2
Maximum Input Voltage	600 VDC	
DC Input Voltage Range	60 - 550 VDC	
DC MPPT Voltage Range	60 - 480 VDC[1]	
Maximum Current per MPPT (I_{sc})	13 A	
Maximum Short Circuit Current per MPPT (I_{sc})	15 A	

PERFORMANCE SPECIFICATIONS

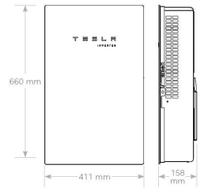
Peak Efficiency	98% at 208 V 98.1% at 240 V
CEC Efficiency	97.5% at 208 V 97.5% at 240 V
Allowable DC/AC Ratio	1.7
Customer Interface	Tesla Mobile App
Internet Connectivity	Wi-Fi (2.4 GHz, 802.11 b/g/n), Ethernet, Cellular (LTE/4G)[2]
AC Remote Metering Support	Wi-Fi (2.4 GHz, 802.11 b/g/n), RS-485
Protections	Integrated arc fault circuit interrupter (AFCI), Rapid Shutdown
Supported Grid Types	60 Hz, 240 V Split Phase 60 Hz, 208 V Wye

[1] Maximum current.
[2] Cellular connectivity subject to network operator service coverage and signal strength.

MECHANICAL SPECIFICATIONS

Dimensions	660 mm x 411 mm x 158 mm (26 in x 16 in x 6 in)
Weight	52 lb[1]
Mounting options	Wall mount (bracket)

[1] Door and bracket can be removed for a mounting weight of 37 lb.



ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-30°C to 45°C (-22°F to 113°F)*
Operating Humidity (RH)	Up to 100%, condensing
Storage Temperature	-30°C to 70°C (-22°F to 158°F)
Maximum Elevation	3000 m (9843 ft)
Environment	Indoor and outdoor rated
Enclosure Rating	Type 3R
Ingress Rating	IP55 (Wiring compartment)
Pollution Rating	PD2 for power electronics and terminal wiring compartment, PD3 for all other components
Operating Noise @ 1 m	< 40 db(A) nominal, < 50 db(A) maximum

*For the 7.6 kW Solar Inverter, performance may be de-rated to 6.2 kW at 240 V or 5.37 kW at 208 V when operating at temperatures greater than 45°C.

COMPLIANCE INFORMATION

Grid Certifications	UL 1741, UL 1741 SA, IEEE 1547, IEEE 1547.1
Safety Certifications	UL 1741 PVRSS, UL 1699B, UL 1998 (US), UL 3741
Emissions	EN 61000-6-3 (Residential), FCC 47CFR15.109 (a)

TESLA NA 2022-02-02 TESLA.COM/ENERGY

SOLAR SHUTDOWN DEVICE

The Tesla Solar Shutdown Device is part of the PV system rapid shutdown (RSD) function in accordance with Article 690 of the applicable NEC. When paired with the Tesla Solar Inverter, solar array shutdown is initiated by any loss of AC power.

ELECTRICAL SPECIFICATIONS

Nominal Input DC Current Rating (I_{mp})	12 A
Maximum Input Short Circuit Current (I_{sc})	15 A
Maximum System Voltage	600 V DC

RSD MODULE PERFORMANCE

Maximum Number of Devices per String	5
Control	Power Line Excitation
Passive State	Normally open
Maximum Power Consumption	7 W
Warranty	25 years

COMPLIANCE INFORMATION

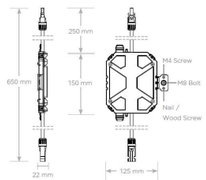
Certifications	UL 1741 PVRSE, UL 3741, PVRSA (Photovoltaic Rapid Shutdown Array)
RSD Initiation Method	PV System AC Breaker or Switch
Compatible Equipment	*See Compatibility Table below*

ENVIRONMENTAL SPECIFICATIONS

Ambient Temperature	-40°C to 50°C (-40°F to 122°F)
Storage Temperature	-30°C to 70°C (-22°F to 158°F)
Enclosure Rating	NEMA 4 / IP65

MECHANICAL SPECIFICATIONS

Electrical Connections	MC4 Connector
Housing	Plastic
Dimensions	725 mm x 150 mm x 22 mm (5 in x 6 in x 1 in)
Weight	850 g (0.77 lb)
Mounting Options	ZEP Home Run Clip M4 Screw (#10) M8 Bolt (5/16") Nail / Wood screw



UL 3741 PV HAZARD CONTROL (AND PVRSA) COMPATIBILITY

Tesla Solar Roof and Tesla/Zep 25 Arrays using the following modules are certified to UL 3741 and UL 1741 PVRSA when installed with the Tesla Solar Inverter and Solar Shutdown Devices. See the Tesla Solar Inverter Installation Manual for detailed instructions and for guidance on installing Tesla Solar Inverter and Solar Shutdown Devices with other modules.

Brand	Model	Required Solar Shutdown Devices
Tesla	Solar Roof V3	1 Solar Shutdown Device per 10 modules
Tesla	Tesla TxxxS (where xxx = 405 to 460 W, increments of 5)	1 Solar Shutdown Device per 3 modules[1]
Tesla	Tesla TxxxH (where xxx = 395 to 415 W, increments of 5)	1 Solar Shutdown Device per 3 modules
Hanwha	Q.PEAK DUO BLK-G5	1 Solar Shutdown Device per 3 modules
Hanwha	Q.PEAK DUO BLK-G6+	1 Solar Shutdown Device per 3 modules

[1]**Exception:** Tesla solar modules installed in locations where the max Voc for three modules at low design temperatures exceeds 165 V shall be limited to two modules between MCIs.

TESLA NA 2022-02-02 TESLA.COM/ENERGY

CAPE FEAR SOLAR SYSTEMS
910 S. 2nd St.
Wilmington, NC 28401
910-409-5533

GC LIC. NO. : 65677
ELEC. LIC. NO. : U-33321

7.14 kW DC PV SYSTEM
REUBEN FORNAH
183 Tun Tavern Dr, Cameron, NC 28326

RESOURCES

REVISION LIST

#	REV. DATE	DESC.

DATE:	**February 28, 2025**
DRAWN BY:	**JPN**

Sheet No.

R-01

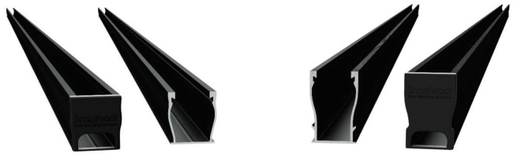
SnapNrack
Solar Mounting Solutions

Ultra Rail

UR-40
UR-60

SnapNrack Ultra Rail System

A sleek, straightforward rail solution for mounting solar modules on all roof types. Ultra Rail features two rail profiles; UR-40 is a lightweight rail profile that is suitable for most geographic regions and maintains all the great features of SnapNrack rail, while UR-60 is a heavier duty rail profile that provides a larger rail channel and increased span capabilities. Both are compatible with all existing mounts, module clamps, and accessories for ease of install.



The Entire System is a Snap to Install

- New Ultra Rail Mounts include snap-in brackets for attaching rail
- Compatible with all the SnapNrack Mid Clamps and End Clamps customers love
- Universal End Clamps and snap-in End Caps provide a clean look to the array edge

Unparalleled Wire Management

- Open rail channel provides room for running wires resulting in a long-lasting quality install
- Industry best wire management offering includes Junction Boxes, Universal Wire Clamps, MLPE Attachment Kits, and Conduit Clamps
- System is fully bonded and listed to UL 2703 Standard

Heavy Duty UR-60 Rail

- UR-60 rail profile provides increased span capabilities for high wind speeds and snow loads
- Taller, stronger rail profile includes profile-specific rail splice and end cap
- All existing mounts, module clamps, and accessories are retained for the same great install experience

The Ultimate Value in Rooftop Solar

- Industry leading Wire Management Solutions
- Mounts available for all roof types
- Single Tool Installation
- All SnapNrack Module Clamps & Accessories are compatible with both rail profiles

Start Installing Ultra Rail Today

RESOURCES snapnrack.com/resources
DESIGN snapnrack.com/configurator
WHERE TO BUY snapnrack.com/where-to-buy

Quality. Innovative. Superior.

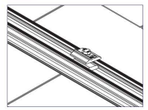
SnapNrack Solar Mounting Solutions are engineered to optimize material use and labor resources and improve overall installation quality and safety.

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

Grounding Specifications

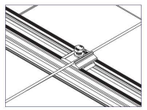
snapnrack.com

INSTALLATION INSTRUCTIONS - SNAPNRACK GROUND LUG



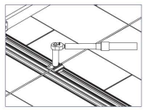
1) Snap the SnapNrack Ground Lug into the rail channel on **one rail per module row.**

Install Note:
SnapNrack Ground Lug may be used in side or top channel, and may be rotated 90 degrees relative to slot to facilitate running copper across top of rails.



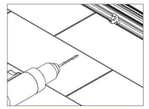
2) Place grounding conductor into slot underneath split ring washer.

Install Note:
SnapNrack Ground Lug only Listed for use with 6-12 AWG solid copper conductor.



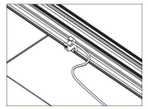
3) Tighten hardware to 16 ft-lbs.

INSTALLATION INSTRUCTIONS - ILSCO LAY-IN LUG

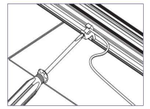


1) Drill and deburr a 1/4" hole in the back side of the rail for the Ilsco lug to attach to, place the bolt through the hole, and attach the lug assembly on **one rail per module row.**

Install Note:
Torque rail connection to 35 in-lbs.



2) Place grounding conductor into slot.



3) Tighten set screw per Ilsco's recommendation (see below).

Install Note:
Torque set screw to 20 in-lbs for #10-#14 solid and stranded copper, 25 in-lbs for #8 stranded copper, and 35 in-lbs for #4-#6 stranded copper.

Note:
- System has been evaluated to a maximum overcurrent device (OCD) protection level of 20 Amps.
- Universal End Clamp (UEC) does not bond module to rail. Be sure to separately ground any modules that are only secured by UECs, especially during servicing.
- SnapNrack recommends that bare copper never come into contact with aluminum.
- SnapNrack Ground Lug: torque bolt to 16 ft-lbs. The Ground Lug may be used in side or top channel. It may be rotated 90 degrees relative to slot to facilitate running copper across top of rails.
- Grounding with a standard Ilsco GBL-4DBT Lug is a listed alternate and requires drilling of a hole in the rail.
- Ilsco hardware connection to rail: 5 ft-lbs. Torque for lug set screw: #10-#14 solid and stranded copper- 20 in-lbs, #8 stranded copper- 25 in-lbs, #4-#6 stranded copper- 35 in-lbs.

Grounding Specifications

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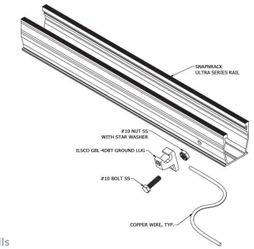
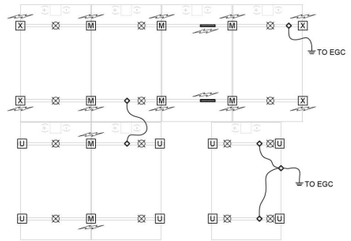
Ilsco Lay-in Lug Assembly



Ground Path Details



RAIL | RAIL SPLICE | MOUNT | GROUND LUG | M MODULE CLAMP
M = MIDCLAMP
X = X-END CLAMP
U = UNIVERSAL END CLAMP
GROUND PATH | EQUIPMENT GROUNDING CONDUCTOR

Ultra Rail

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Deck Mounting, *re-imagined.*

- Flexible direct to deck mounting & rafter mounting options
- Pre-installed butyl for easy worry-free sealing
- Compatible with proprietary DeckAnchor™ fasteners cutting the number of deck fasteners in half, from 4 to 2
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are the latest innovation designed to reduce the number of roof fasteners when mounting direct to deck and provide maximum flexibility to mount anywhere on the roof. Engineered with butyl, now installers do not have to add sealant to the bottom of the mount, simplifying the installation process and further protecting the roof.

AnchorFoot™

- Pre-installed butyl for easy peel & stick installation allows for no disruption to composition shingles
- Industry-leading .200" thick butyl allows installation over shingles without cutting pieces
- Flexible direct to deck mounting options with (2) DeckAnchors or (4) #14 wood screws
- Flexible rafter mounting options with (1) 5/16" lag or (2) #14 wood screws
- Ships pre-assembled with Ultra Rail Mounting Clamp for easy rail attachment
- Rated for UL2703 Bonding & Grounding with TAS 100A Wind Driven Rain Testing for waterproof certification

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- Proprietary fastening technology to reduce the number of screws for direct to deck mounting
- Familiar ½" hex head to maintain the SnapNrack tradition of a single tool install
- Wide threads securely grip the wood deck and significantly reduces the potential for over-tightening
- TAS 100A Wind Driven Rain Testing + ASTM D1761 Screw Capacities

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7.14 kW DC PV SYSTEM
REUBEN FORNAH
183 Tun Tavern Dr, Cameron, NC 28326

RESOURCES

REVISION LIST

#	REV. DATE	DESC.

DATE:	**February 28, 2025**
DRAWN BY:	**JPN**

Sheet No.

R-02