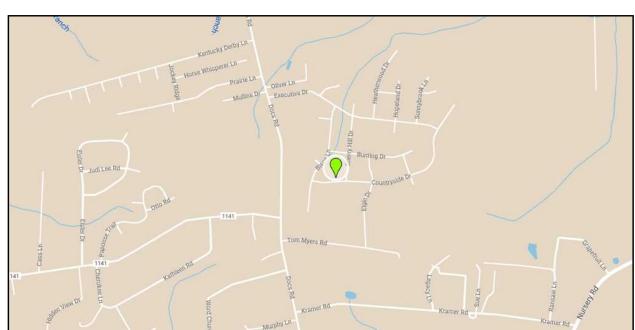


SHEET SCHEDULE

SHEET NO.	SHEET TITLE
S-01	ARRAY A LAYOUT
S-02	ASSEMBLY DETAILS
R-01	RESOURCES
R-02	RESOURCES
R-03	RESOURCES
R-04	RESOURCES
R-05	RESOURCES
R-06	RESOURCES

01 SITE SKETCH G-01 SCALE: N/A



02 LOCATION MAP G-01 SCALE: N/A

PROJECT INFORMATION:

CONTRACTOR

NAME: CAPE FEAR SOLAR SYSTEMS, LLC

PHONE: (910) 409-5533

PROJECT MANAGER: ROBERT PARKER

PHONE: (910) 232-6288

AUTHORITIES HAVING JURISDICTION:

BUILDING: HARNETT COUNTY ZONING: HARNETT COUNTY ELECTRICAL: HARNETT COUNTY

UTILITY: Other

APPLICABLE CODES & STANDARDS

BUILDING: IRC WITH NORTH CAROLINA AMENDMENTS 2018

ELECTRICAL: NEC 2017

FIRE: IFC WITH NORTH CAROLINA AMENDMENTS 2018, STATEWIDE UNIFORM REQUIREMENTS OF INSPECTION PROCEDURES FOR SOLAR PHOTOVOLTAIC SYSTEMS INSTALLED ON RESIDENTIAL ROOFTOPS

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

PROJECT #RB-239364

CAPE FEAR SOLAR SYSTEMS

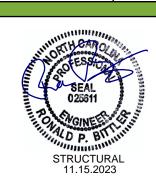
910 S. 2nd St. Wilmington, NC 28401 910-409-5533



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

7.6KW PV SYSTEM
BENJAMIN SHERIDAN
99 Countryside Dr, Lillington,
NC 27546

COVER



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G-01

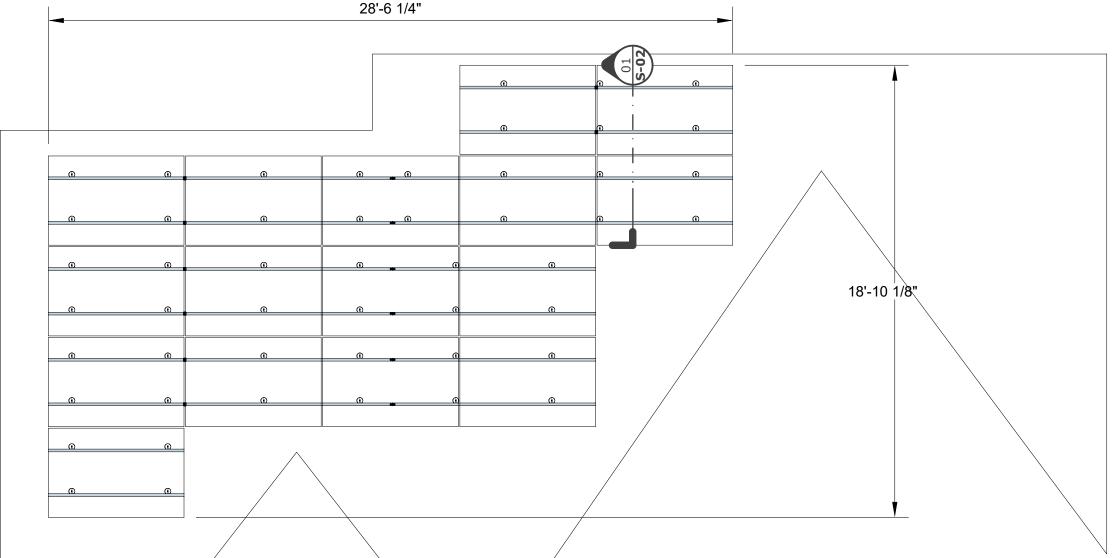
STRUCTURAL NOTES

- 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

DESIGN SPECIFICATIONS

GROUND SNOW LOAD: 10 PSF DESIGN WIND SPEED: 117 MPH (ASCE 7-10) DESIGN EXPOSURE CATEGORY: B DEAD LOAD: 2.44 PSF



O1 PLAN - ARRAY A LAYOUT SCALE: 1/4" = 1'

CAPE FEAR SOLAR SYSTEMS

910 S. 2nd St. Wilmington, NC 28401 910-409-5533



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LAYOUT

ARRAY A

BENJAMIN SHERIDAN 99 Countryside Dr, Lillington, NC 27546

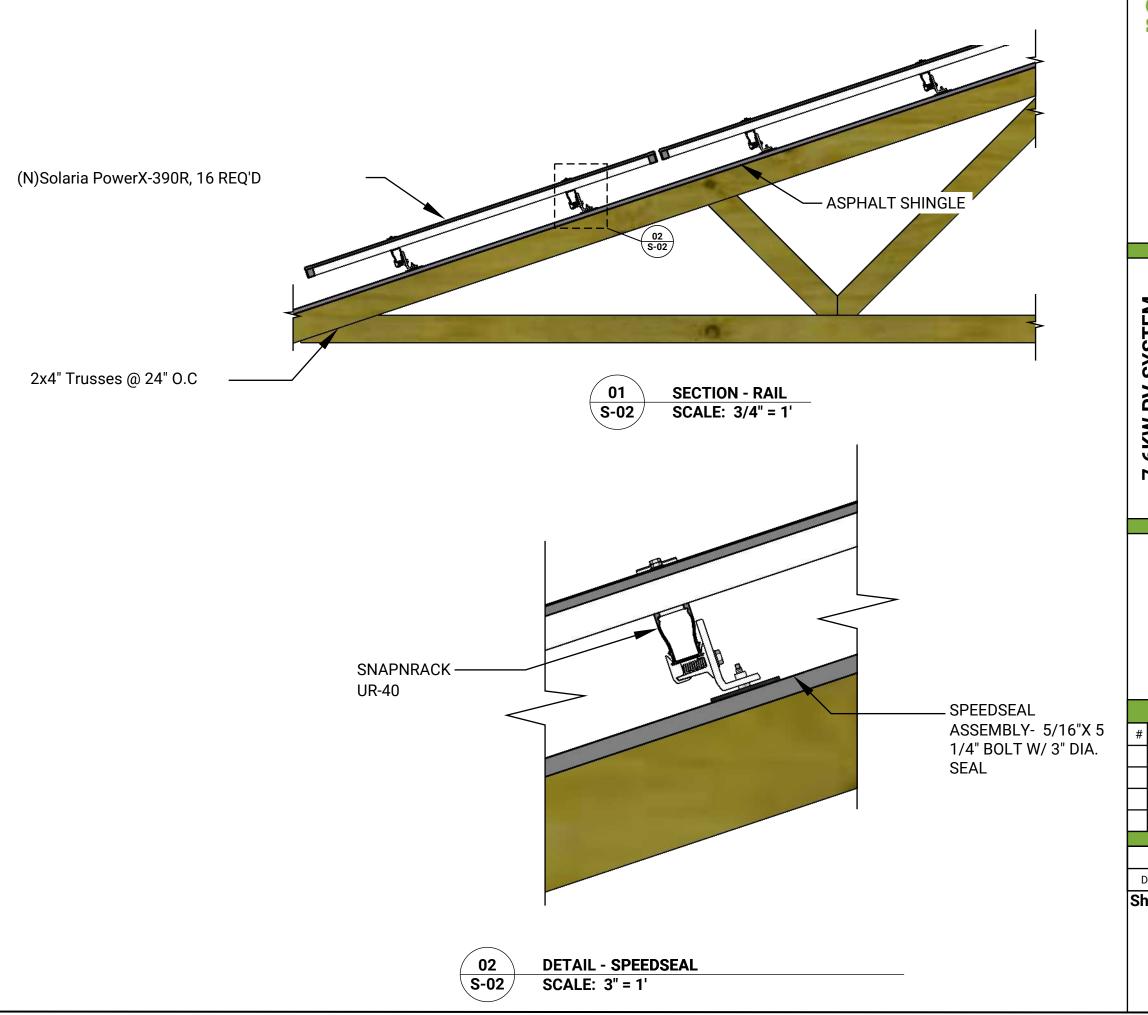
7.6KW PV SYSTEM



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S-01



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



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ELEC. LIC. NO.: U-33321

ASSEMBLY DETAILS

99 Countryside Dr, Lillington, NC 27546 **BENJAMIN SHERIDAN** 7.6KW PV SYSTEM



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Sheet No.

S-02



Solaria PowerX | DC Panel



Solaria PowerX-400R Performance Series

Achieving over 20.5% efficiency, Solaria PowerX Performance solar panels feature Solaria's core cell cutting technology, offering higher-power and attractive black-onblack aesthetics compared to conventional solar panels. Solaria has been the market leader in cut-cell technologies for over a decade. With a comprehensive 25-year warranty, PowerX delivers the latest in power and reliability for homeowners.



High Efficiency, High Power

At 400 watts and 20.5% efficiency, Solaria PowerX solar panels are one of the highest power residential panels available.



High Quality and Reliability

State-of-the art cell cutting technology and advanced panel construction ensure that PowerX panels are highly reliable and designed to far exceed the industry-leading 25-year warranty.



All Black Aesthetics

Compared to conventional panels, Solaria PowerX panels have a more uniform all-black appearance.



Best System Value

Solaria PowerX solar panels produce more power per square meter area. This reduces installation costs due to fewer balance of system components.



Improved Shading Tolerance

Sub-strings are interconnected in parallel, which dramatically lowers the shading losses and boosts energy yield.



Low Light Performance

PowerX maintains high efficiency at low irradiance further ensuring maximum energy yield.



About Solaria

Established in 2000, The Solaria Corporation has created one of the industry's most respected IP pending patents in PV solar cell and module technology. Headquartered in California, Solaria has developed a technology platform that unlocks the potential of solar energy.

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SOLARIA

Temp. Coeff. of Voc

Temp. Coeff. of Isc

Design Parameters

Operating temperature

Max System Voltage

Max Fuse Rating

Bypass Diodes

Solaria PowerX-400R

Performance at STC (1000V Solaria PowerX-		390R	395R	400R	Cell Type	Monocrystalline Silicon
Max Power (Pmax)	[W]	390	395	400	Dimensions (L x W x H)	67.8" x 44.7" x 1.4"
Efficiency	[%]	20.0	20.2	20.5	N	1723mm x 1134mm x 35mm
Open Circuit Voltage (Voc)	[V]	36.9	37.1	37.3	Weight	22.1 kg / 48.7 lbs
Short Circuit Current (Isc)	[A]	13.52	13.60	13.68	Glass Type / Thickness	AR Coated, Tempered / 3.2mm
Max Power Voltage (Vmp)	[V]	30.6	30.8	31.0	Frame Type	Black Anodized Aluminum
Max Power Current (Imp)	[A]	12.73	12.82	12.9	Cable Type / Length	12 AWG PV Wire (UL) /1100mm
Power Tolerance	[%]	-0/+3	-0/+3	-0/+3	Connector Type	MC4
					Junction Box	IP68 / 3 diodes
Performance at NOCT (800W)	m², 20°C Aml	o, Wind 1 m	/s, AM 1.5)		Front Load	5400 Pa / 113 psf*
Max Power (Pmax)	[W]	290	293	297	Rear Load	2400 Pa / 50 psf*
Open Circuit Voltage (Voc)	[V]	34.3	34.5	34.7	* Refer to Solaria Installation Manual f	or details
Short Circuit Current (Isc)	[A]	11.01	11.10	11.13	Certifications / Warrant	VIII.
Max Power Voltage (Vmp)	[V]	28.50	28.60	28.76		
Max Power Current (Imp)	[A]	10.20	10.26	10.32	Certifications	UL 61730 / IEC 61215 / IEC 61730
Temperature Characteristic	Š				Fire Type (UL 1703)	2
NOCT Temp. Coeff. of Pmax	[°C] [% / °C]		45 +/-2 -0.36		Power, Parts & Labor Warranty	25 years*
remp. ocen. or rinax	[10]		0.00		* Wassacks datable at successful and	

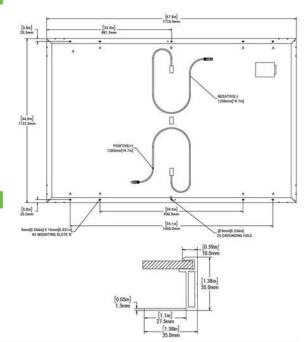
Stacking Method Panels/ Pallet Pallet Dims (L x W x H)

Pallet Weight Pallets / 40-ft Container Panels / 40-ft Container

* Warranty details at www.solaria.com

Vertical / Palletized 69.3" x 44.3" x 49.3" 1760mm x 1125mm x 1253mm 745 kg / 1642 lbs 26

806



The Solaria Corporation 45700 Northport Loop East, Fremont, CA 94538 P: (510) 270-2507 Product specifications are subject to change without notice.

Years

VOLTAGE (V)

25-year Power, Parts and Labor from Solaria

Typical Tier 1 industry warranty

[% / °C]

[% / °C]

[°C]

[V]

[A]

[#]

-0.28

0.048

-40 to +85

1000

25

www.solaria.com

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CAPE * FEAR SOLAR SYSTEMS

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> Lillington, **ESOURCES**

BENJAMIN SHERIDAN Dr, '54(Countryside I

SYSTEM

7.6KW PV

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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
- 2x the standard number of MPPTs for high production on complex roofs
- and ground fault protection high production on comp

ELECTRICAL SPECIFICATIONS

· No neutral wire simplifies installation

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		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 _{mp})	13 A	
Maximum Short Circuit Current per MPPT (I _{sc})	15.A	

PERFORMANCE SPECIFICATIONS

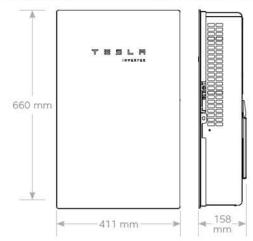
Peak Efficiency	98% at 208 V	98.4% at 208 V	
	98.1% at 240 V	98.6% at 240 V	
CEC Efficiency	97.5% at 208 V	97.5% at 208 V	
	97.5% at 240 V	98.0% at 240 V	
Allowable DC/AC Ratio	1	.7	
Customer Interface	Tesla Mobile App		
Internet Connectivity	Wi-Fi (2.4 GHz, 802.11 b/g/n),		
	Ethernet, Cellular (LTE/4G) ²	
AC Remote Metering Support	Wi-Fi (2.4 GHz, 80)	2.11 b/g/n),	
	RS-485		
Protections	Integrated arc fault circuit interrupter		
	(AFCI), Rapid Shut	down	
Supported Grid Types	60 Hz, 240 V Split Phase		
	60 Hz, 208 V Wye		

¹ Maximum current

MECHANICAL SPECIFICATIONS

Dimensions	660 mm x 411 mm x 158 mm (26 in x 16 in x 6 in)
Weight	52 lb ³
Mounting options	Wall mount (bracket)

³Door 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)4
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
SE-sk-76 ISM Calculation	des estados estados COLWEI

 4 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)

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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 _{sp})	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

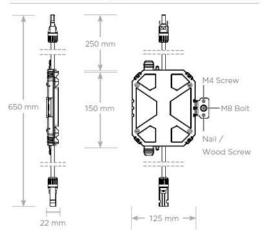
Certifications	UL 1741 PVRSE, UL 3741, PVRSA (Photovoltaic Rapid Shutdown Array)
RSD Initiation Method	PV System AC Breaker or Switch
Compatible Equipment	See Compatibility Table below

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	125 mm x 150 mm x 22 mm (5 in x 6 in x 1 in)	
Weight	350 g (0.77 lb)	
Mounting Options	ZEP Home Run Clip M4 Screw (#10) M8 Bott (5/16") Nail / Wood screw	



UL 3741 PV HAZARD CONTROL (AND PVRSA) COMPATIBILITY

Tesla Solar Roof and Tesla/Zep ZS 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 450 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	

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.

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7.6KW PV SYSTEM
BENJAMIN SHERIDAN
Countryside Dr, Lillington,
NC 27546

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RESOURCES

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TESLA

²Cellular connectivity subject to network operator service coverage and signal strength.

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



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A New Generation of Roof Attachments

- Innovative design incorporates flashing reliability into a single roof attachment
- 100% waterproof solution
- Sealing cavity with compressible barrier secures sealant in place & fills voids

Maintain the Integrity of the Roof by Eliminating Disruption

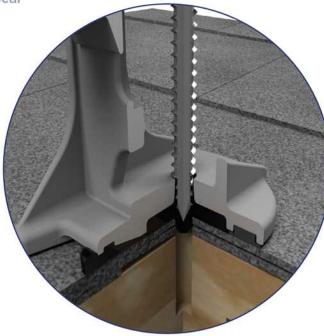
- · Zero prying of shingles
- · Zero removal of nails leaving holes in the roof
- · Roof remains installed the way manufacturer meant it to be

Lag Driven Sealant Waterproofing

- · Time Tested Roof Sealant provides lasting seal
- · Sealant is compressed into cavity and lag hole as attachment is secured to rafter
- · Active sealant solidifies bond if ever touched by liquid
- Technology passes UL 2582 Wind Driven Rain Test and ASTM E2140 Water Column Testing standards. Patent Pending.

Single Tool Installation

 SnapNrack was the first in the industry to develop a complete system that only requires a single tool. That tradition is continued as a 1/2" socket is still the only tool necessary to secure the mount as well as all other parts of the system.



Note: Sealant shown in white for illustration purposes only.

SnapNrack SpeedSeal™ Foot

Fastest Roof Attachment in Solar

- · Lag straight to a structural member, no in-between components such as flashings or bases.
- Simply locate rafter, fill sealant cavity & secure to roof. It's that simple!

Integrated Flashings. No Questions.

- · Sealant fills around lag screw keeping roof and structure sealed and intact
- No added holes from ripping up nails, staples and screws holding shingles on roof

Less Time. Less Parts. Less Tools.

- No more need for a pry bar to rip up shingles
- No more proprietary lag screws
- Single Tool installation with 1/2" socket

Total System Solution One Tool. One Warranty.

- SnapNrack Ultra Rail is a straightforward intuitive install experience on the roof without
- compromising quality, aesthetics & safety, all supported by a 25 year warranty. • Built-in Wire Management & Aesthetically pleasing features designed for Ultra Rail
- result in a long-lasting quality install that installers and homeowners love.

Certifications

SnapNrack Ultra Rail System has been evaluated by Underwriters Laboratories (UL) and Listed to UL/ANSI Standard 2703 for Mechanical Loading and Fire. Additionally it is listed to UL 2582 for wind-driven rain and ASTM 2140.



877-732-2860

www.snapnrack.com

contact@snapnrack.com

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Sheet No.



UR-40 UR-60

Ultra Rail





The Ultimate Value in Rooftop Solar



Industry leading Wire Management Solutions



Mounts available for all roof types





All SnapNrack Module **Clamps & Accessories** are compatible with both rail profiles

Start Installing Ultra Rail Today

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

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
- 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
- · Taller, stronger rail profile includes profilespecific rail splice and end cap
- · All existing mounts, module clamps, and accessories are retained for the same great install experience



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

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SOLAR SYSTEMS

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R-05

November 15, 2023

Grounding Specifications

snapnrack.com

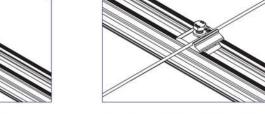
Grounding Specifications

snapnrack.com

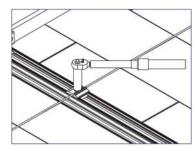
INSTALLATION INSTRUCTIONS - SNAPNRACK GROUND LUG



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



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



3) Tighten hardware to 16 ft-lbs.

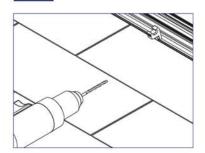
nstall Note:

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.

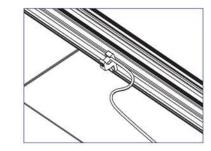
Install Note:

SnapNrack Ground Lug only Listed for use with 6-12 AWG solid copper

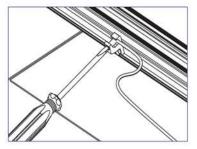
INSTALLATION INSTRUCTIONS - ILSCO LAY-IN LUG



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



2) Place grounding conductor into



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

nstall Note:

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

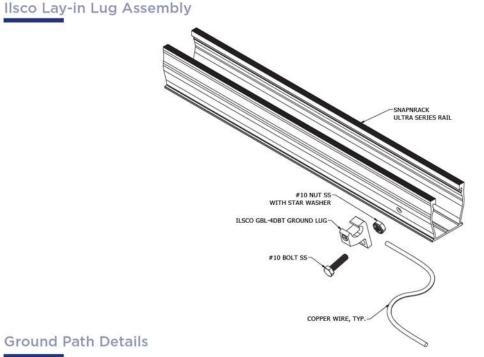
nstall Note:

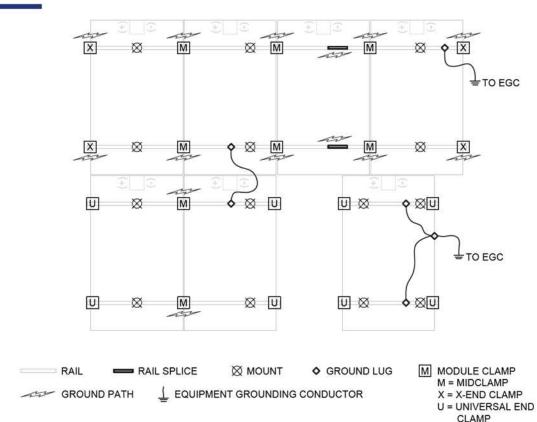
Torque rail connection to 35 in-lbs.



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 lisco 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.





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