

PALMETTO

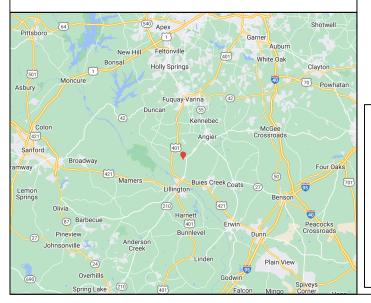
+1 843-720-1844 997 MORRISON DR SUITE #200, CHARLESTON, SC 29403, USA

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David C. Hernandez Digitally signed by David C. Hernandez Date: 2023.05.16 06:25:28 -04:00





RESIDENTIAL SOLAR PHOTOVOLTAIC SYSTEM 355 HUNTING WOOD DR ANGIER, NC 27501

4.050 kW DC-STC / 3.800 kW AC 15/MAY/23



SYSTEM SPECIFICATIONS

SYSTEM SIZE: 4.050 kW

MODULE: VSUN 405-108BMH 405W

NUMBER OF PANELS: 10

INVERTER: SE3800H-US (240V)

OPTIMIZER: S440

RACKING SYSTEM: IRONRIDGE XR-10-168M

AHJ: HARNETT COUNTY, NC

 ${\tt UTILITY: DUKE\ ENERGY\ PROGRESS\ (DEP)\ (NC)}$

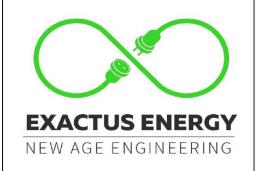
GOVERNING CODE:

2018 NORTH CAROLINA STATE BUILDING CODE

IBC 2018

2018 NC FIRE PREVENTION CODE

NEC 2017



+1 833 392 2887 208-888 DUPONT STREET TORONTO, ON

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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)]

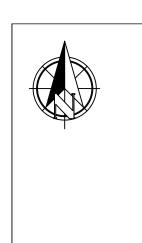
- WHEN A BACKFED BREAKER IS THE METHOD OF UTILITY INTERCONNECTION, THE BREAKER SHALL BE INSTALLED AT THE OPPOSITE END OF THE BUS BAR OF THE MAIN BREAKER.
- TO REDUCE FIRE HAZARDS, DC PV SYSTEMS WILL BE EQUIPPED WITH A GROUND FAULT PROTECTION SYSTEM IN ACCORDANCE WITH NEC 690.41(B)
- WHERE GROUND-FAULT 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 UL1703
- 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.



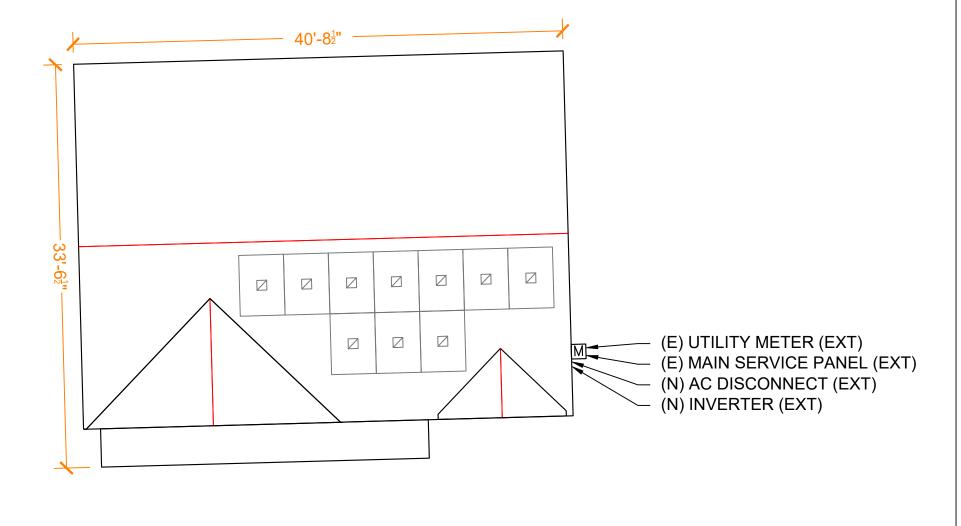
REV: -

N1 - GENERAL NOTES





PROPERTY LINE 355 HUNTING WOOD DR **DWELLING HUNTING WOOD DR**



NOTES:

SCALE: 1"=40'

- SCALE AS SHOWN

- ALL DIMENSIONS IN FEET UNLESS OTHERWISE STATED

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:



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

PROJECT: 355 HUNTING WOOD DR MUNICIPALITY: ANGIER, NC ZIP CODE: 27501 CLIENT: JENNIFER LEE 4.050 KW DC-STC / 3.800 KW AC AUTHOR: EE

REV: -

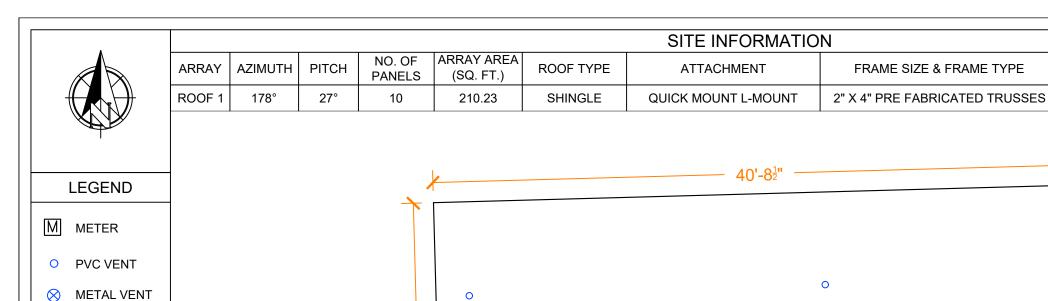
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G1 - SITE PLAN

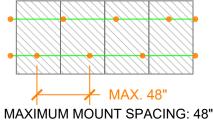


SCALE: 1"=8'



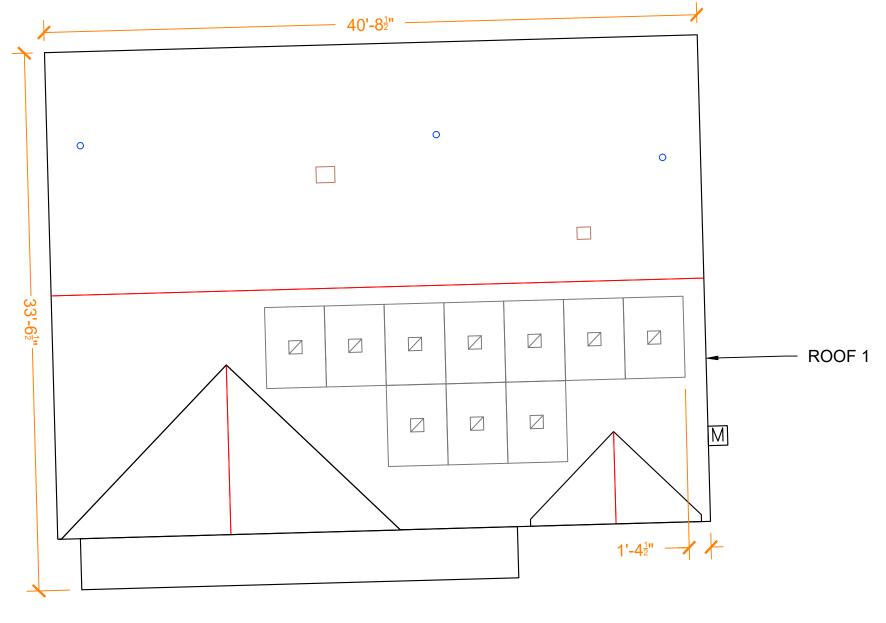
	PANE	LS DATA
F	PANEL TYPE	VSUN 405-108BMH 405 W
NO	D. OF PANELS	10
	PANEL SIZE	67.80" X 44.65"
PA	ANEL WEIGHT (LBS)	47.18
F	PANEL AREA (FT ²)	21.02
	IT WEIGHT OF REA (LBS/FT ²)	2.24

MOUNTING PATTERN SAMPLE



MAXIMUM MOUNT SPACING: 48"
MOUNT PATTERN: STAGGERED

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



TOTAL ROOF AREA: 1481.93 FT²
TOTAL ARRAY AREA: 210.23 FT²

TOTAL ARRAY PERCENT COVERAGE: 14.19%

MODULE WATTAGE: 405 W NUMBER OF PANELS: 10

SYSTEM SIZE: 4.050 kW

NOTES:

REV: -

- SOLAR PANEL LAYOUT SUBJECT TO CHANGE ACCORDING TO EXISTING CONDITIONS

FRAME

SPACING

2'-0"

MAX ATTACHMENT

SPAN

4'-0"

OVERHANG

1'-4"

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



STRUCTURAL DELIMITER

SERVICE MAST

SATELLITE

ANTENNA

MOUNT

RAIL

CHIMNEY

SNOW GUARD

DOWNSPOUT

TOP CHORD

PALMETTO

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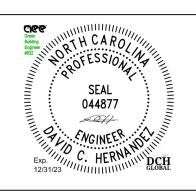
SCALE: 1"=6'

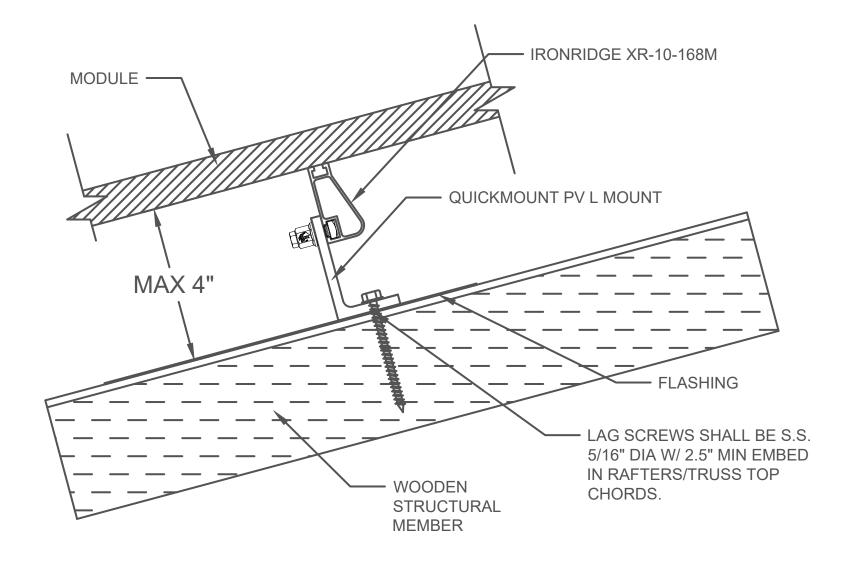
PROJECT: 355 HUNTING WOOD DR MUNICIPALITY: ANGIER, NC ZIP CODE: 27501 CLIENT: JENNIFER LEE 4.050 KW DC-STC / 3.800 KW AC AUTHOR: EE
DATE: 15/MAY/23

G2 - PANEL LAYOUT

Need on-site installation support?

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SCALE: NTS

PANEL TYPE: VSUN 405-108BMH 405W

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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PROJECT: 355 HUNTING WOOD DR

MUNICIPALITY: ANGIER, NC

4.050 KW DC-STC / 3.800 KW AC

CLIENT: JENNIFER LEE

ZIP CODE: 27501

PHONE: +1 843-720-1844

WWW.PALMETTO.COM

NOTES:

REV: -

- SCALE AS SHOWN

- ALL DIMENSIONS IN FEET UNLESS

OTHERWISE STATED

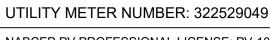
AUTHOR: EE

DATE: 15/MAY/23 Need on-site installation support?

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G3 - MOUNTING DETAIL





NABCEP PV PROFESSIONAL LICENSE: PV-102415-012615

ELECTRICAL CONTRACTOR LICENSE: U.32289

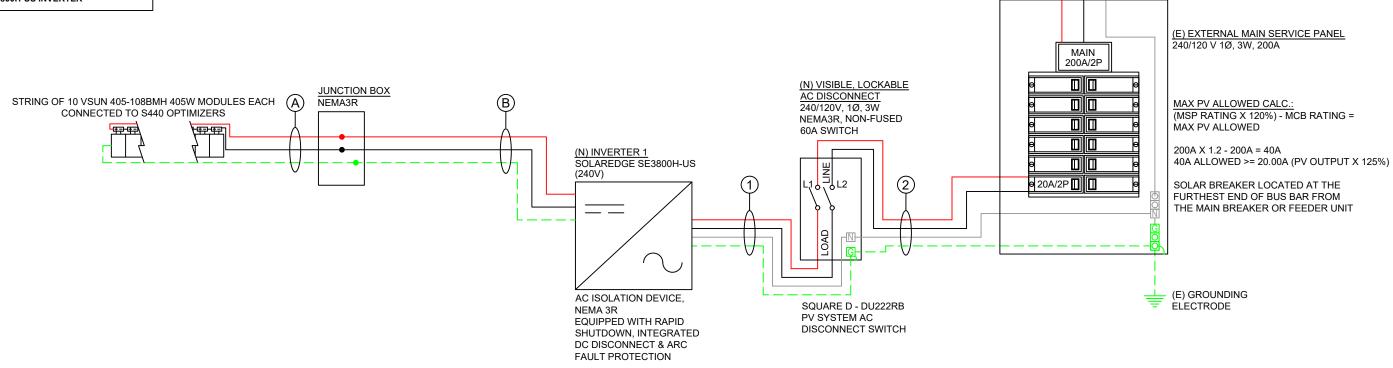
NOTE:

4.0500kW DC SYSTEM SIZE (STC)
MODULES: 10 X 405W = 4.050kW DC (STC)

INVERTER: 1X SOLAREDGE SE3800H-US INVERTER

= 3.800kW AC SYSTEM

(10) VSUN 405-108BMH 405W PANELS (10) SOLAREDGE S440 OPTIMIZER (1) SOLAREDGE SE3800H-US INVERTER



AC CONDUCTOR SCHEDULE

חו	From	To	Phase	AC	Circuit	80% or 100%	Circuit	OCPD	Material	Conductor	# of CCCs	Fill	Ambient	Temp.	Conductor	Ampacity	Max	Derated	# of	Neutral	Ground	Ground	Ground	Ground	Conduit	Conduit
	110111		Titase	Voltage	Current	Rated OCPD?	Current x 125%	(If Present)	Widterial	Type	" or cccs	Factor	Temp.	Factor	Size	@ 75°C	Ampacity	Ampacity	Neutrals	Size	Ground	Material	Type	Size	Type	Size
1	SolarEdge Inverter 1	AC Disconnect	1Ф	240 (V)	16.0 (A)	80%	20.0 (A)	20 (A)	CU	THWN-2	2	1.00	32.9 (°C)	0.96	10 AWG	35 (A)	40 (A)	38.4 (A)	1	10 AWG	EGC	CU	THWN-2	10 AWG	EMT	0.75 (in.)
2	AC Disconnect	POI	1Ф	240 (V)	16.0 (A)	80%	20.0 (A)	20 (A)	CU	THWN-2	2	1.00	32.9 (°C)	0.96	10 AWG	35 (A)	40 (A)	38.4(A)	1	10 AWG	EGC	CU	THWN-2	10 AWG	EMT	0.75 (in.)

SOLAREDGE DC CONDUCTOR SCHEDULE

(A) FREE AIR

*TEMPERATURE FACTOR IS BASED ON 2% DRY BULB HIGH TEMPERATURE OF 32.9°C WITH A 0°C TEMPERATURE ADDER THEREFORE RACEWAYS MUST BE AT LEAST 0.875 INCHES ABOVE ROOF AS PER NEC 310.15(B)(3)(C)

Number of	Conductor	Conductor	Conductor	Base Ampacity	*Temperature	Fill	Derated	Circuit	Min. OCPD	EGC	EGC	EGC	Conduit
Strings	Material	Type	Size	@ 90°C	Factor	Factor	Ampacity	Current	(If Required)	Material	Type	Size	Conduit
No Limit	CU	PV Wire	10 AWG	40A	0.96	1.00	38.40A	15.00A	20A	CU	BARE	6 AWG	N/A - Free Air

(B) IN CONDUI

*TEMPERATURE FACTOR IS BASED ON 2% DRY BULB HIGH TEMPERATURE OF 32.9°C WITH A 0°C TEMPERATURE ADDER THEREFORE RACEWAYS MUST BE AT LEAST 0.875 INCHES ABOVE ROOF AS PER NEC 310.15(B)(3)(C)

**CALCULATIONS ARE BASED ON THE LARGEST CIRCUIT CURRENT (WORST CASE SCENARIO).

***TABLE ASSUMES ONE EGC PER CONDUIT. MINIMUM ONE EGC IS REQUIRED PER INVERTER PER CONDUIT.

Number of	Conductor	Conductor	Conductor	Base Ampacity	*Temperature	Fill	Derated	**Circuit	Min. OCPD	EGC	EGC	EGC	Min. EMT Size
Strings	Material	Type	Size	@ 90°C	Factor	Factor	Ampacity	Current	(If Required)	Material	Type	Size	IVIIII. LIVII 3126
1	CU	THWN-2	10 AWG	40A	0.96	1.00	38.40A	15.00A	20A	CU	THWN-2	10 AWG	0.50 in.



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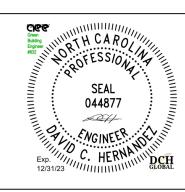
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REV: -

E1 - LINE DIAGRAM

InstallHotline@Palmetto.com

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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(f)7)]
LOCATION: PLACE ON ALL COMBINER
BOX/ENCLOSURES, MAIN SERVICE
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 AMPACITY OF BUSBAR

CODE REF: [NEC 705.12(B)(2)(3)(c)]
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(I)]
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) & 690.59]
LOCATION: PLACE LABEL ON ALL EQUIPMENT
CONTAINING OVERCURRENT DEVICES IN
CIRCUITS SUPPLYING POWER
TO A BUSBAR OR CONDUCTORS SUPPLIED
FROM MULTIPLE SOURCES

WARNING

POWER SOURCE OUTPUT CONNECTION

DO NOT RELOCATE THIS OVERCURRENT

CODE REF: [NEC 705.12(B)(2)(3)(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
BACKFED

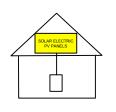
CODE REF: [NEC 705.12(B)(4) & 690.59]
LOCATION: PLACE LABEL ON ALL EQUIPMENT
CONTAINING OVERCURRENT DEVICES IN
CIRCUITS SUPPLYING POWER
TO A BUSBAR OR CONDUCTORS SUPPLIED
FROM MULTIPLE SOURCES

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 SHUT DOWN PV 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

MAXIMUM CIRCUIT CURRENT

10.5 A

MAX RATED OUTPUT
CURRENT OF DC-TO-DC
CONVERTER (IF INSTALLED)

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

DO NOT DISCONNECT UNDER LOAD

CODE REF: [NEC 690.15(C) & 690.33(E)(2)]

LOCATION: PLACE ON ALL DISCONNECTING MEANS
WHERE ENERGIZED IN AN OPEN POSITION

PHOTOVOLTAIC AC DISCONNECT

RATED AC OUTPUT CURRENT 16A

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:

- 1) 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.
- 2) LABELS USED INDOORS MAY BE MADE OF DURABLE VINYL OR PAPER
- 3) DO NOT COVER ANY EXISTING MANUFACTURER APPLIED LABELS WITH INSTALLATION SPECIFIC LABELS
- 4) LABEL COLORS CHOSEN PER NFPA 70 2017 DIRECTION THAT ANSI Z535-2011 BE USED
- 5) REQUIREMENTS COMPLY WITH NEC 2017
- 6) ADDITIONALLY, IT IS HIGHLY RECOMMENDED THAT THE INSTALLER ATTACH A LABEL WITH THE COMPANY NAME AND CONTACT INFORMATION AT THE INVERTER
- 7) ALL WARNING SIGNS OR LABELS SHALL COMPLY WITH NEC 110.21(B)

FORMAT

- WHITE LETTERING ON A RED BACKGROUND
- 2. 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



PHONE: +1 843-720-1844 WWW.PALMETTO.COM PROJECT: 355 HUNTING WOOD DR MUNICIPALITY: ANGIER, NC ZIP CODE: 27501 CLIENT: JENNIFER LEE 4.050 KW DC-STC / 3.800 KW AC AUTHOR: EE

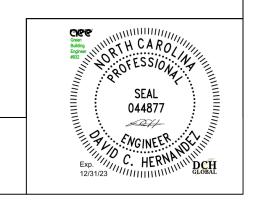
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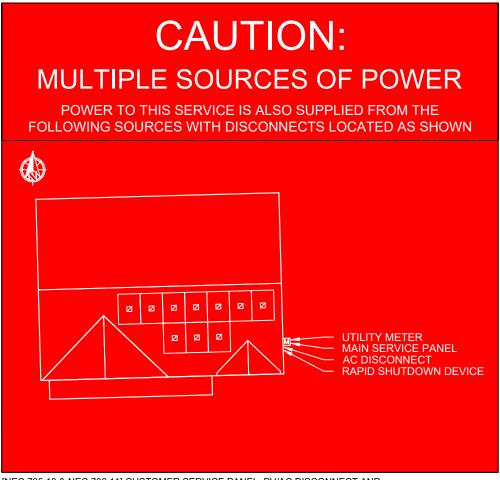
DATE: 15/MAY/23

Call

E2 - WARNING LABELS

Need on-site installation support?
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[NEC 705.10 & NEC 706.11] CUSTOMER SERVICE PANEL, PV/AC DISCONNECT AND RAPID SHUTDOWN DEVICE



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E3 - PLACARD

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VSUN405-108BMH

405W Highest power output

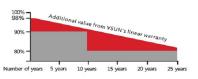
20.74% Module efficiency

25 years

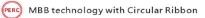
Material & Workmanship warranty

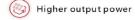
30_{vears}

Linear power output warranty

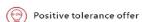




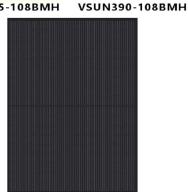




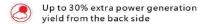
Half-cell Technology



VSUN405-108BMH VSUN395-108BMH

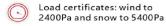






VSUN400-108BMH







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











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)	13.78	13.68	13.59	13.5
Maximum Power Voltage - Vmpp (V)	31.36	31.17	31	30.82
Maximum Power Current - Impp (A)	12.92	12.84	12.75	12.66
Module Efficiency	20.74%	20.48%	20.23%	19.97%
CI I IT IC I'I COTO ' I'	4.000.1111 2 444.4.5	1 1 1 2505 B 5		. 201

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)	Vmpp (V)	Impp (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 Maximum Datings

remperature characte	iis ties	Maximum Raungs	
NOCT	45°C(±2°C)	Maximum System Voltage [V]	1500
Voltage Temperature Coefficient	-0.27%/°C	Series Fuse Rating [A]	30
Current Temperature Coefficient	+0.048%/°C	Bifaciality	70%±10%
Power Temperature Coefficient	-0.32%/°C		

Material Characteristics

1722×1134×30mm (L×W×H Black anodized aluminum profile

White toughened safety glass, 3.2 mm Front Glass Cell Encapsulation EVA (Ethylene-Vinyl-Acetate) or POE Back Sheet Transparent black-mesh backsheet Cells

12×9 pieces monocrystalline solar cells series strings IP68, 3 diodes

Cable&Connecto

Potrait: 500 mm (cable length can be customized, 1×4 mm2, compatible with MC4 Dackaging System Design

Packaging		system Design	
Dimensions(L×W×H)	1760×1125×1253mm	Temperature Range	-40 °C to + 85 °C
Container 20'	216	Withstanding Hail	Maximum diameter of 25 mm with
Container 40'	468		impact speed of 23 m/s
Container 40'HC	936	Maximum Surface Load	5,400 Pa
		Application class	class A

IV-Curves Dimensions



Certificate of Compliance

Certificate: Master Contract: 265697

Date Issued: Project:

VIETNAM SUNERGY JOINT STOCK COMPANY Lot III-Dong Vang Area, Dinh Tram Industrial Zone,

Hoang Ninh Commune, Viet Yen District, 230000 Bac Giang Province,

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only



Qiang (Sean) Jiang

Qiang (Sean) Jiang

CLASS 5311 10 - POWER SUPPLIES - Photovoltaic Modules and Panels

CLASS 5311 90 - POWER SUPPLIES - Photovoltaic Modules and Panels - Certified to U.S. Standards

Photovoltaic modules with Fire Performance (USA) Type 29, maximum system voltage of 1500 V dc, model series: VSUNxxx-144BMH-DG (xxx=510-580, in steps of 5), Fuse rating 30A.

Photovoltaic modules with Fire Performance (USA) Type 29, maximum system voltage of 1500 $\rm V$ dc, model series: VSUNxxx-132BMH-DG (xxx=475-520, in steps of 5), Fuse rating 30A. Photovoltaic modules with Fire Performance (USA) Type 29, maximum system voltage of 1500 $V\ dc$, model

series: VSUNxxx-120BMH-DG (xxx=430-470, in steps of 5), Fuse rating 30A. Photovoltaic modules with Fire Performance (USA) Type 29, maximum system voltage of 1500 V dc, model

series: VSUNxxx-108BMH-DG (xxx=390-410, in steps of 5), Fuse rating 30A. Photovoltaic modules with Fire Performance (USA) Type 1, maximum system voltage of 1500 $\rm V$ dc, model series: VSUNxxx-144BMH (xxx=510-580, in steps of 5), Fuse rating 30A.

Photovoltaic modules with Fire Performance (USA) Type 1, maximum system voltage of 1500 V dc, model series: VSUNxxx-132BMH (xxx=475-520, in steps of 5), Fuse rating 30A.

Photovoltaic modules with Fire Performance (USA) Type 1, maximum system voltage of 1500 V dc, model series: VSUNxxx-120BMH (xxx=430-470, in steps of 5), Fuse rating 30A.

Photovoltaic modules with Fire Performance (USA) Type 1, maximum system voltage of 1500 V dc, model series: VSUNxxx-108BMH (xxx=390-410, in steps of 5), Fuse rating 30A.

Photovoltaic modules with Fire Performance (USA) Type 1, maximum system voltage of 1500 V dc, model series: VSUNxxx-144MH-BB (xxx=510-580, in steps of 5), Fuse rating 30A.

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PROJECT: 355 HUNTING WOOD DR MUNICIPALITY: ANGIER, NC ZIP CODE: 27501 CLIENT: JENNIFER LEE 4.050 KW DC-STC / 3.800 KW AC

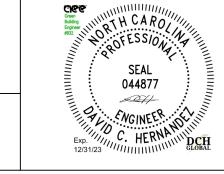
AUTHOR: EE

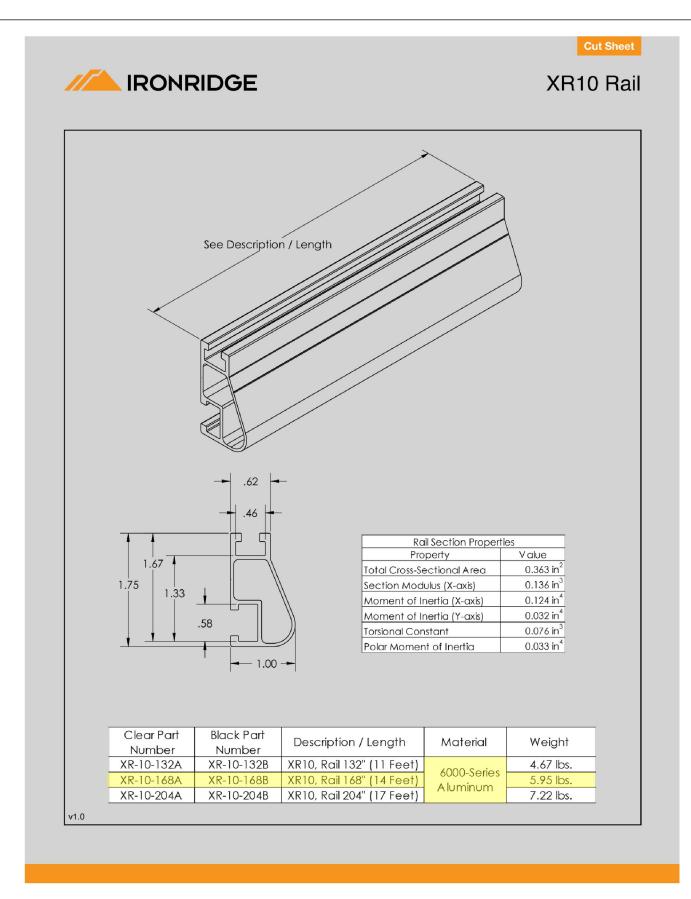
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REV: -

A1 - PANEL SPECIFICATIONS

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





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



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REV: -

DATE: 15/MAY/23

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A2 - RACKING SPECIFICATIONS

Need on-site installation support?



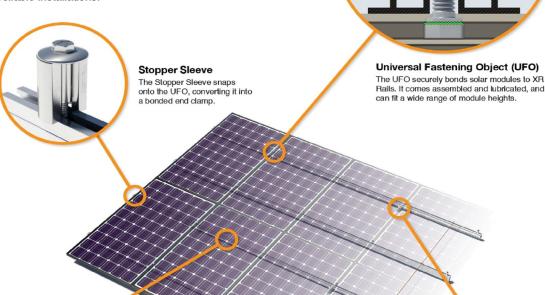


UFO Family of Components

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.





Grounding Lug
A single Grounding Lug
connects an entire row
of PV modules to the
grounding conductor.

Bonded Attachments The bonding bolt attaches and bonds the L-foot to the

The bonding bolt attaches and bonds the L-foot to the rail. It is installed with the same socket as the rest of the system.

VSUN modules with 30, 35 and 40 mm frames

BOSS™ Splice

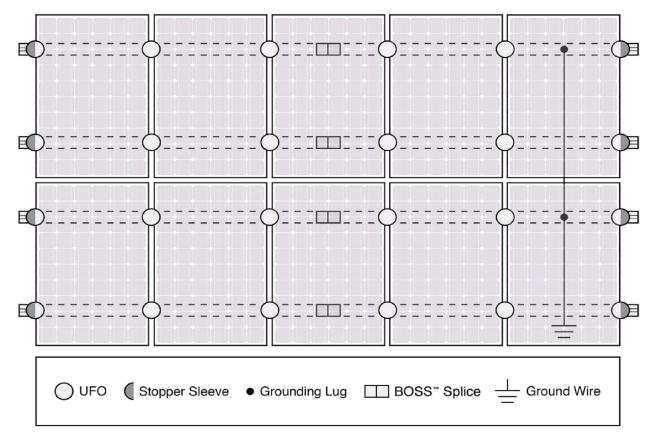
Bonded Structural Splice connects rails with built-in

VSUNxxx-YYz-aa

Where "YY" can be 60, 72, 108, 120, or 144; "z" can be M, P, MH, PH, or BMH; and "aa" can be blank, BB,

BW, or DG

System Diagram



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 Engage 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

	Cross-System	Compatibility	
Feature	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		with most MLPE ma system installation	
Fire Rating	Class A	Class A	N/A
Modules		ated with over 400 F allation manuals for a	

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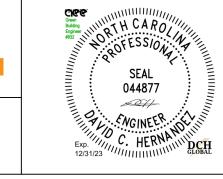
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DATE: 15/MAY/23

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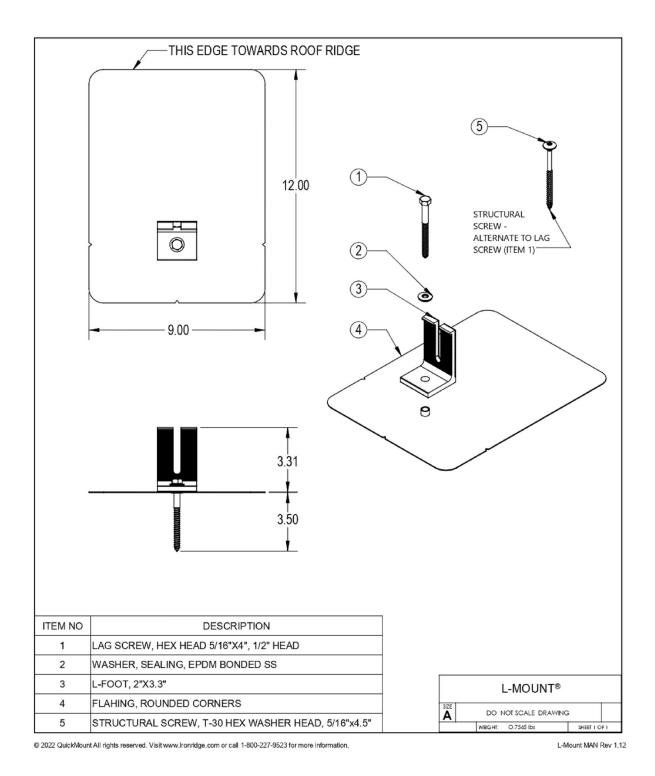
A3 - BONDING AND GROUNDING SPECIFICATIONS

Need on-site installation support?Palmetto Installation Hotline



Quick Mount[®]

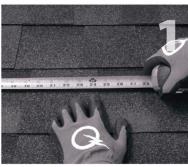
L-Mount®



L-Mount[®] Installation Instructions

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

WARNING: Quick Mount[®] products are NOT designed for and should NOT be used to anchor fall protection equipment.



mounts will be placed.



mounted. Select the courses of shingles where bar, just above placement of mount. Remove up so top edge of flashing is at least ¾" higher nails as required and backfill holes with aproved than the butt-edge of the 3rd course and lower sealant. See "Proper Flashing Placement" on next flashing edge is above the butt-edge of 1st course.



Locate, choose, and mark centers of rafters to be Carefully lift composition roof shingle with roofing Insert flashing between 1st and 2nd course. Slide Mark center for drilling.



a 1/8" bit (ST) for attaching with the structural compatible with roofing materials. 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





If attaching with lag bolt use a 1/4" bit (Lag). Use Clean off any sawdust, and fill hole with sealant Place L-foot onto elevated flute and rotate L-foot to



Prepare lag bolt or structural screw with sealing You are now ready for the rack of your choice. washer. Using a ½-inch socket on an impact gun, drive prepared lag bolt through L-foot until L-foot as well as the module manufacturer. NOTE: Make can no longer easily rotate. **DO NOT over-torque.** sure top of L-Foot makes solid contact with racking. NOTE: Structural screw can be driven with T-30 hex



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

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

L-Mount MAN Rev 1.12



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A4 - MOUNTING SPECIFICATIONS

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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

- Record-breaking 99% weighted efficiency
- Quick and easy inverter commissioning directly from a smartphone using the SolarEdge SetApp
- 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

- / Specifically designed to work with power optimizers / 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,

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	S
APPLICABLE TO INVERTERS WITH PART NUMBER			SE	XXXXH-XXXXX	BXX4			
OUTPUT								
Rated AC Power Output	3000	3800 @ 240V 3300 @ 208V	5000	6000 @ 240V 5000 @ 208V	7600	10000	11400 @ 240V 10000 @ 208V	VA
Maximum AC Power Output	3000	3800 @ 240V 3300 @ 208V	5000	6000 @ 240V 5000 @ 208V	7600	10000	11400 @ 240V 10000 @ 208V	VA
AC Output Voltage MinNomMax. (211 - 240 - 264)	✓	✓	✓	✓	✓	✓	✓	Vac
AC Output Voltage MinNomMax. (183 - 208 - 229)		✓	-	✓	-	-	✓	Vac
AC Frequency (Nominal)				59.3 - 60 - 60.5 ⁽¹⁾				Hz
Maximum Continuous Output Current @240V	12.5	16	21	25	32	42	47.5	А
Maximum Continuous Output Current @208V	-	16		24	-	-	48.5	А
Power Factor			1,	Adjustable - 0.85 to	0.85			
GFDI Threshold				1				А
Utility Monitoring, Islanding Protection, Country Configurable Thresholds				Yes				
INPUT								
Maximum DC Power @240V	4650	5900	7750	9300	11800	15500	17650	W
Maximum DC Power @208V	-	5100	-	7750	-	-	15500	W
Transformer-less, Ungrounded				Yes	1	1		
Maximum Input Voltage				480				Vdc
Nominal DC Input Voltage			380			400		Vdc
Maximum Input Current @240V ⁽²⁾	8.5	10.5	13.5	16.5	20	27	30.5	Add
Maximum Input Current @208V ⁽²⁾	-	9	-	13.5	-	-	27	Add
Max. Input Short Circuit Current				45				Add
Reverse-Polarity Protection				Yes				
Ground-Fault Isolation Detection				600kΩ Sensitivity				
Maximum Inverter Efficiency	99			S	9.2			%
CEC Weighted Efficiency				99			99 @ 240V 98.5 @ 208V	%
Nighttime Power Consumption				< 2.5				W
ADDITIONAL FEATURES								
Supported Communication Interfaces			RS485, Ethernet,	ZigBee (optional), C	ellular (optional)			
Revenue Grade Metering, ANSI C12.20				0 .: 1/3				
Consumption metering				Optional ⁽³⁾				
Inverter Commissioning		With the SetA	pp mobile application	n using Built-in Wi-Fi	Access Point for Lo	al Connection		
Rapid Shutdown - NEC 2014, NEC 2017 and NEC 2020, 690.12			Automatic Rapid	Shutdown upon AC	Grid Disconnect			
STANDARD COMPLIANCE								
Safety		UL1741, L	JL1741 SA, UL1699B, (I.L. M-07		
Grid Connection Standards			IEEE1	1547, Rule 21, Rule 14	(HI)			
Emissions				FCC Part 15 Class B				
INSTALLATION SPECIFICAT	IONS							
AC Output Conduit Size / AWG Range		1'	Maximum / 14-6 AV	VG		1" Maximum ,	/14-4 AWG	
DC Input Conduit Size / # of Strings / AWG Range		1" Maxir	mum / 1-2 strings / 1-	4-6 AWG		1" Maximum / 1-3 st	rings / 14-6 AWG	
Dimensions with Safety Switch (HxWxD)			14.6 x 6.8 / 450 x 37			21.3 x 14.6 x 7.3 / 5		in / mn
Weight with Safety Switch	22 /		25.1 / 11.4	26.2	/ 11.9	38.8 /	17.6	lb/kg
Noise		<	25			<50		dBA
Cooling				Natural Convection				
Operating Temperature Range				to +140 / -40 to +6				°F/°C
Protection Rating			NEMA 42	((Inverter with Safet	y Switch)			

should be ordered separately: \$EACT0750-200NA-20 or \$EACT0750-400NA-20. 20 units per box

(4) Full power up to at least 50°C / 122°F; for power de-rating information refer to: https://www.solaredge.com/sites/default/files/se-temperature-derating-note



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AUTHOR: EE

REV: -

DATE: 15/MAY/23

A5 - INVERTER SPECIFICATIONS Need on-site installation support?



Power Optimizer For North America

S440, S500



PV power optimization at the module level

- 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%)
- Mitigates all types of module mismatch loss, from manufacturing tolerance to partial shading

solaredge.com

- Faster installations with simplified cable management and easy assembly using a single bolt
- 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		S500	Unit
INPUT				
Rated Input DC Power ^m	440		500	W
Absolute Maximum Input Voltage (Voc)		60		Vdc
MPPT Operating Range		8 - 60		Vdc
Maximum Short Circuit Current (Isc) of Connected PV Module	14.5		15	Adc
Maximum Efficiency		99.5		%
Weighted Efficiency		98.6		%
Overvoltage Category		II		
OUTPUT DURING OPERATION				
Maximum Output Current		15		Adc
Maximum Output Voltage		60		Vdc
OUTPUT DURING STANDBY (POWER OPTIMIZER DISC	ONNECTED FROM I	NVERTER OR INVERTER	OFF)	
Safety Output Voltage per Power Optimizer		1+/-0.1		Vdc
STANDARD COMPLIANCE				
Photovoltaic Rapid Shutdown System		NEC 2014, 2017 & 2020		
EMC	FCC P	art 15 Class B, IEC61000-6-2, IEC6100	00-6-3	
Safety		IEC62109-1 (class safety), UL1741		
Material		UL94 V-0, UV Resistant		
RoHS		Yes		
Fire Safety		VDE-AR-E 2100-712:2013-05		
INSTALLATION SPECIFICATIONS				
Maximum Allowed System Voltage		1000		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/lb
Input Connector		MC4 ^{p1}		
Input Wire Length		0.1 / 0.32		m/ft
Output Connector		MC4		
Output Wire Length		(+) 2.3, (-) 0.10 / (+) 7.54, (-) 0.32		m/ft
Operating Temperature Range ^{In}		-40 to +85		°C
Protection Rating		IP68 / NEMA6P		
Relative Humidity		0 - 100		%

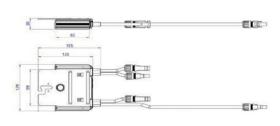
- (1) Rated power of the module at STC will not exceed the power optimizer Rated Input DC Power. Modules with up to +5% power tolerance are allowed
- (3) For ambient temperature above +70°C/+158°F power de-rating is applied. Refer to Power Optimizers Temperature De-Rating Technical Note for more details

PV System Design Using a SolarEdge Inverter		Single Phase HD-Wave	Three Phase for 208V Grid	Three Phase for 277/480V Grid	
Minimum String Length (Power Optimizers)	S440, S500	8	10	18	
Maximum String Length (Power Optimizers)		25		50 ^M	
Maximum Nominal Power per String		5700 (6000 with SE7600-US-SE11400-U)	6000	12750	W
Maximum Allowed Connected Power per String ⁽⁵⁾ (Permitted only when the difference in connected power between		Refer to Footnote 5	One string 7200	15000	W
strings is 1,000W or less)			Two strings or more 7800		
Parallel Strings of Different Lengths or Orientations		Yes			

- (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 s. 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/files/se-power-optimizer-single-string-design-application-note pdf (6) it is not allowed to mix 5-series and P-series Power Optimizers in new installations







A6 - OPTIMIZER SPECIFICATIONS











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