

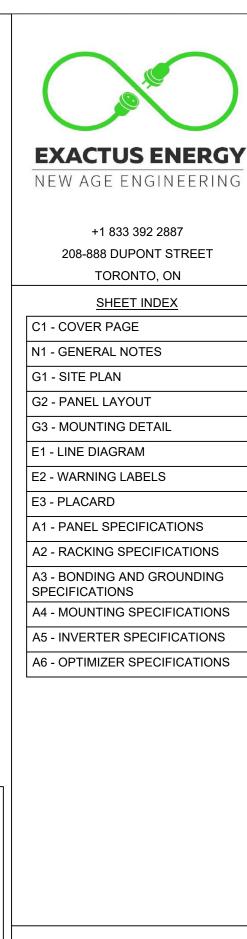
RESIDENTIAL SOLAR PHOTOVOLTAIC SYSTEM 355 HUNTING WOOD DR ANGIER, NC 27501

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 UTILITY: DUKE ENERGY PROGRESS (DEP) (NC) GOVERNING CODE: 2018 NORTH CAROLINA STATE BUILDING CODE IBC 2018 2018 NC FIRE PREVENTION CODE NEC 2017



C1 - COVER PAGE

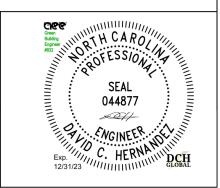
GENERAL NOTES:

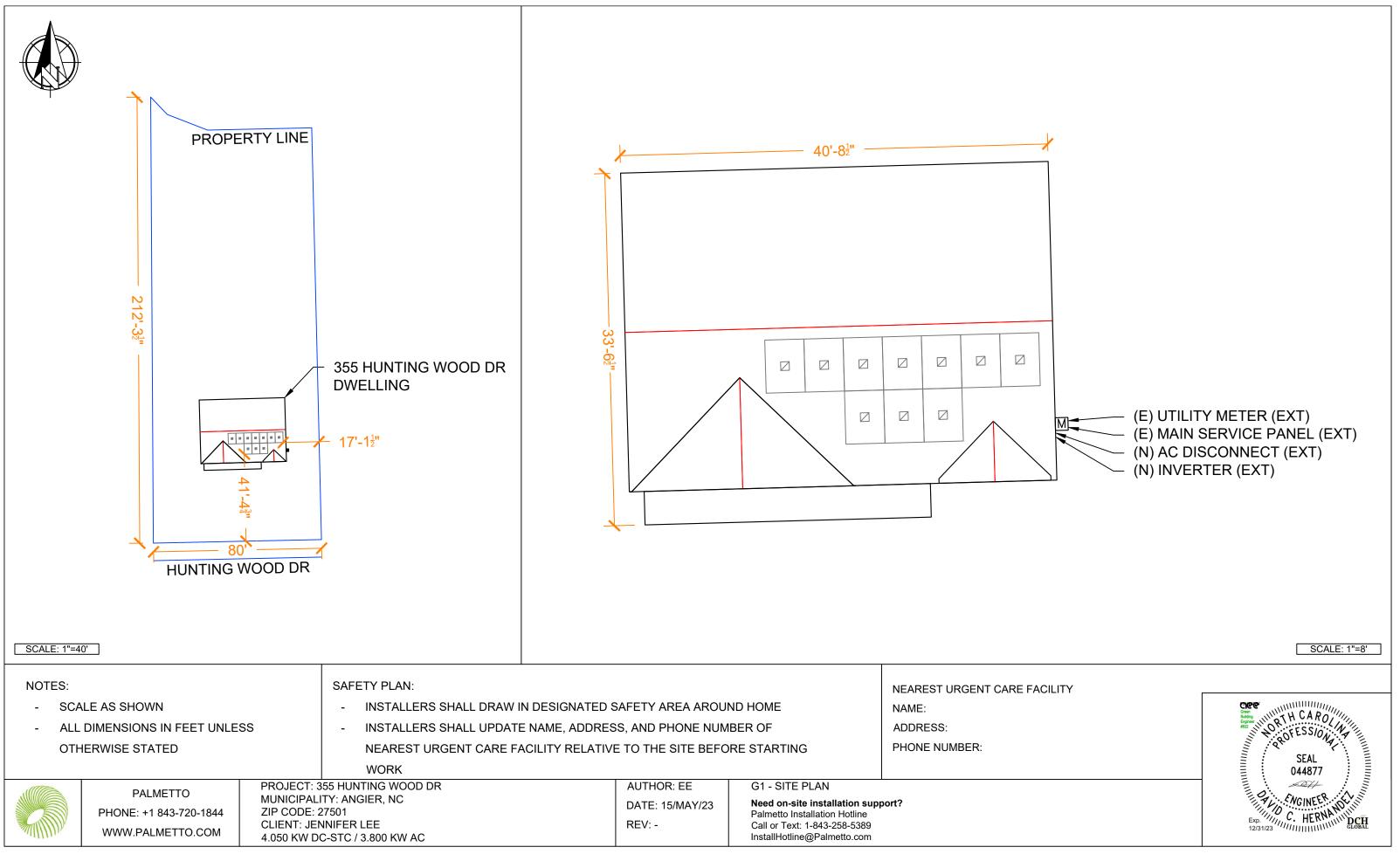
THE INSTALLATION OF PV SYSTEM SHALL BE IN ACCORDANCE WITH THE MOST RECENT NATIONAL ELECTRICAL AND BUILDING CODES AND STANDARDS, AS AMENDED BY JURISDICTION

- 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)]

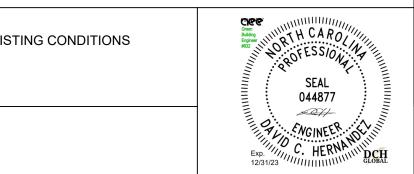
- WHEN A BACKFED BREAKER IS THE METHOD OF UTILITY INTERCONNECTION, THE BREAKER SHALL BE INSTALLED AT THE OPPOSITE END OF THE BUS BAR OF THE MAIN BREAKER.
- TO REDUCE FIRE HAZARDS, DC PV SYSTEMS WILL BE EQUIPPED WITH A GROUND FAULT PROTECTION SYSTEM IN ACCORDANCE WITH NEC 690.41(B)
- WHERE GROUND-FAULT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

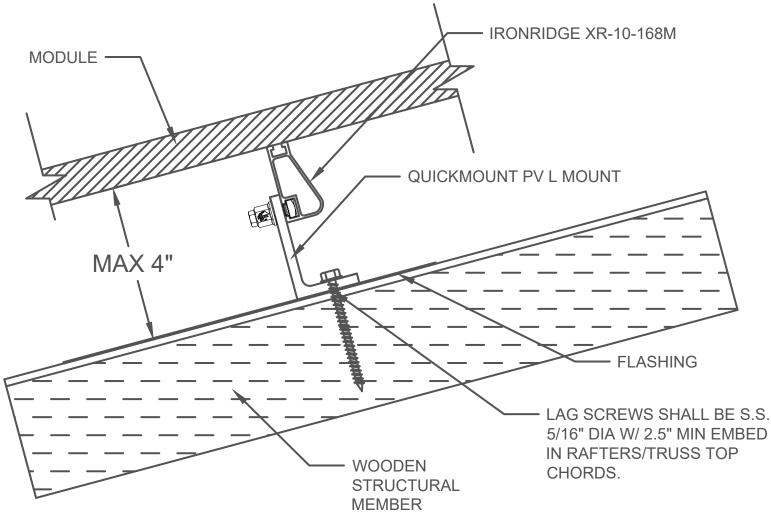
PALMETTO	PROJECT: 355 HUNTING WOOD DR	AUTHOR: EE	N1 - GENERAL NOTES
PALMETTO	MUNICIPALITY: ANGIER, NC	DATE: 15/MAY/23	Need on-site installation support?
PHONE: +1 843-720-1844	ZIP CODE: 27501	DATE. 13/18/A1/23	Palmetto Installation Hotline
	CLIENT: JENNIFER LEE	REV: -	Call or Text: 1-843-258-5389
WWW.PALMETTO.COM	4.050 KW DC-STC / 3.800 KW AC		InstallHotline@Palmetto.com





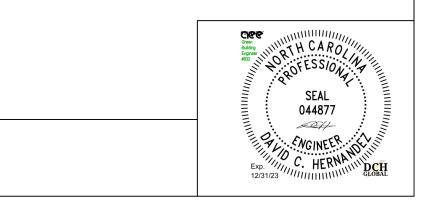
							SITE INFORM	IATION					PANE	ELS DATA
	ARRAY	AZIMUTH	PITCH	NO. OF PANELS	ARRAY AREA (SQ. FT.)	ROOF TYPE	ATTACHMENT		FRAME SIZE & FRAME TYPE	FRAME SPACING	MAX ATTACHMENT SPAN	OVERHANG	PANEL TYPE	VSUN 405-108BMH 405 W
	ROOF 1	178°	27°	10	210.23	SHINGLE	QUICK MOUNT L-MO	JNT 2"	X 4" PRE FABRICATED TRUSSES	2'-0"	4'-0"	1'-4"	NO. OF PANELS	10
													PANEL SIZE	67.80" X 44.65"
								t en					PANEL WEIGHT (LBS)	47.18
LEGEND					/		40'-82	2					PANEL AREA (FT ²)	21.02
M METER													UNIT WEIGHT OF AREA (LBS/FT ²)	2.24
O PVC VENT													MOUNTING F	PATTERN SAMPLE
⊗ METAL VENT					0			0						N
Ŭ					Ŭ				0					
STRUCTURAL DELIMITER														✓ MAX. 48"
O SERVICE MAST														OUNT SPACING: 48" ERN: STAGGERED
														INCLUDING MOUNTING
INTENNA				3'-6 ¹ / ₂ "-									AND RACKING	G, TO BE INSTALLED JRER SPECIFICATIONS.
SNOW GUARD						\wedge					ROOF	1		
MOUNT							\sim			М				
RAIL														
TOP CHORD														
									1'-4 ¹ " -	-1+				
				_										
	SCALE	: 1"=6'												
TOTAL ROOF AREA	: 1481.93 F	T²		MOE	ULE WATTAGE	E: 405 W	NOTES						Cree	
TOTAL ARRAY ARE	A: 210.23 F	T²		NUM	BER OF PANEI	_S: 10			EL LAYOUT SUBJECT TO CHANG	E ACCORE	DING TO EXISTING (CONDITIONS	Engine #832	ROFESSION NATION
TOTAL ARRAY PER	CENT COV	ERAGE: 14	.19%	SYS	TEM SIZE: 4.05	0 kW		SCALE AS S	NOWN SIONS IN FEET UNLESS OTHERWI	SE STATE	D			SEAL
			PROJE	 CT: 355 HUN	TING WOOD DR		AUTHO		G2 - PANEL LAYOUT	_ = E				044877
	PALMETTO E: +1 843-72			PALITY: ANG DE: 27501	BIER, NC		DATE: 1	5/MAY/23	Need on-site installation support? Palmetto Installation Hotline					
	.PALMETTC		CLIENT	: JENNIFER I	_EE 3.800 KW AC		REV: -		Call or Text: 1-843-258-5389 InstallHotline@Palmetto.com				E 1.	xp. //// C. HERM DCH 2/31/23

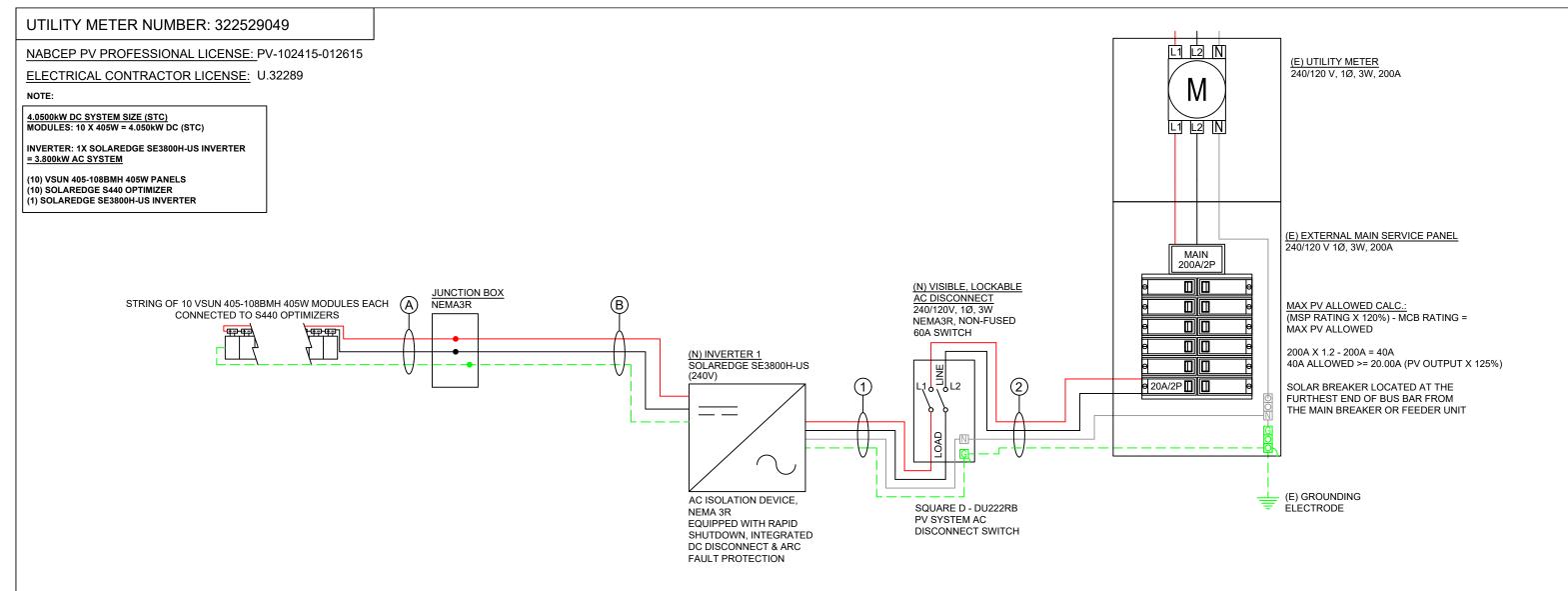




SCALE: NTS

PANEL SIZE RACKING T MOUNT TY	PE: VSUN 405-108BMH 405W E: 67.80" X 44.65" "YPE: IRONRIDGE XR-10-168M PE: QUICK MOUNT L-MOUNT STEM DEAD LOAD: 3.0 PSF	I	NOTES: - SCALE AS SI - ALL DIMENS OTHERWISE	IONS IN FEET UNLESS
	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 DATE: 15/MAY/23 REV: -	G3 - MOUNTING DETAIL Need on-site installation support? Palmetto Installation Hotline Call or Text: 1-843-258-5389 InstallHotline@Palmetto.com





AC CONDUCTOR SCHEDULE

	From	То	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
	TION	10	Thase	Voltage	Current	Rated OCPD?	Current x 125%	(If Present)	Wateria	Туре	# OF CCCS	Factor	Temp.	Factor	Size	@ 75°C	Ampacity	Ampacity	Neutrals	Size	Ground	Material	Туре	Size	Туре	Size
1	SolarEdge Inverter 1	AC Disconnect	1Φ	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	1Φ	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	Туре	Size	@ 90°C	Factor	Factor	Ampacity	Current	(If Required)	Material	Туре	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 CONDUIT

*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.

	TADLE A.	SSOIVIES OIVE	EGCPENCO	NDOIT. WIIN	IVIOIVI OINE EGC 13		V LIVI LIVE LI	CONDON.						
	Number of	Conductor	Conductor	Conductor	Base Ampacity	*Temperature	Fill	Derated	**Circuit	Min. OCPD	EGC	EGC	EGC	Min. EMT Size
	Strings	Material	Туре	Size	@ 90°C	Factor	Factor	Ampacity	Current	(If Required)	Material	Туре	Size	IVIIII. EIVII SIZE
[1	CU	THWN-2	10 AWG	40A	0.96	1.00	38.40A	15.00A	20A	CU	THWN-2	10 AWG	0.50 in.

PALMETTO MUNICIPALITY: ANGIER, NC ZIP CODE: 27501 D	AUTHOR: EE DATE: 15/MAY/23 REV: -	E1 - LINE DIAGRAM Need on-site installation support? Palmetto Installation Hotline Call or Text: 1-843-258-5389 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 DEVICE

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

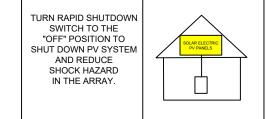
CAUTION PHOTOVOLTAIC SYSTEM CIRCUIT IS BACKFED

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

SOLAR PV SYSTEM EQUIPPED WITH **RAPID SHUTDOWN**



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	10.5 A
MAX RATED OUTPUT	
CURRENT OF DC-TO-DC	15 A
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 DISCO	<u>DNNECT</u>
RATED AC OUTPUT CURRENT	16A
NOMINAL OPERATING AC VOLTAGE	240V
CODE REF: [NEC 690.54] LOCATION: PLACE AT P.O.C. TO SERVIC EQUIPMENT / AC DISCONNECT / PULL B	

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 1) 1. ENVIRONMENT INVOLVED. VALUES HAND WRITTEN OR IN WRITTEN IN MARKER ARE NOT ACCEPTABLE PER NEC 2017. MINIMUM 3/8 INCHES LETTER HEIGHT 2. 2) LABELS USED INDOORS MAY BE MADE OF DURABLE VINYL OR PAPER 3. ALL LETTERS SHALL BE CAPITALIZED 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 4)
- 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)



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

WHITE LETTERING ON A RED BACKGROUND

ARIAL OR SIMILAR FONT (NON-BOLD)

MATERIAL

AUTHOR: EE

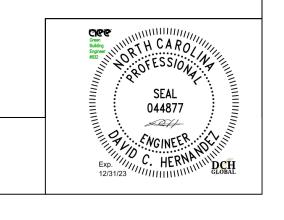
REV: -

DATE: 15/MAY/23

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

E2 - WARNING LABELS Need on-site installation support? Palmetto Installation Hotline Call or Text: 1-843-258-5389 InstallHotline@Palmetto.com

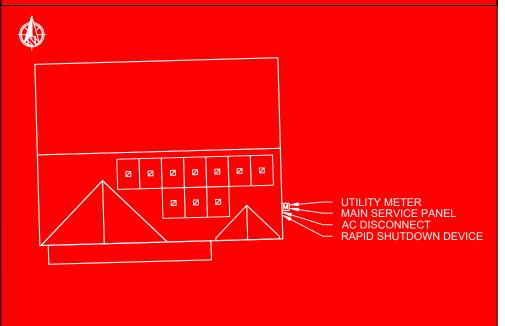
FORMAT



CAUTION:

MULTIPLE SOURCES OF POWER

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



[NEC 705.10 & NEC 706.11] CUSTOMER SERVICE PANEL, PV/AC DISCONNECT AND RAPID SHUTDOWN DEVICE



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

PALMETTO

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 REV: - E3 - PLACARD

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



VSI	J	N
Innovative	&	Smart

VSUN405-108BMH

VSUN400-108BMH VSUN405-108BMH 405W VSUN395-108BMH VSUN390-108BMH Highest power output 20.74% Module efficiency 25years Material & Workmanship warranty **30**_{vears} Linear power output warranty lumber of years 5 years 10 years 15 years Standard Warrant VSUN Micro Gap Munich RE 🚍 Up to 30% extra power generation (PERC) MBB technology with Circular Ribbon vield from the back side Certified for salt/ammonia () Higher output power corrosion resistance Load certificates: wind to (Half-cell Technology 2400Pa and snow to 5400Pa Positive tolerance offer (ð) 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





	aracterist				
Module Type		VSUN405-108BMH	VSUN400-108BMH	VSUN395-108BMH	VSUN390-108B
Maximum Power - Pm	iax (W)	405	400	395	390
Open Circuit Voltage		37.36	37.2	37.03	36.84
Short Circuit Current -		13.78	13.68	13.59	13.5
Maximum Power Volt		31.36	31.17	31	30.82
Maximum Power Curr	ent - Impp (A)	12.92	12.84	12.75	12.66
Module Efficiency	(CTO) imadian	20.74%	20.48% odule temperature 25°C. Pmax Sorti	20.23%	19.97%
			re not part of the offer. They only se		
Electrical Cha	racteristic	with different i	rear side p <mark>ower g</mark> ain(reference to 40	0 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%
Temperatur	e Characto	eristics	Maximum	n Ratings	
NOCT		45°C(±2°C)	Maximum System		1500
Voltage Temperature	Coefficient	-0.27%/°C	Series Fuse Rating		30
Current Temperature		+0.048%/°C	Bifaciality		70%±10%
Power Temperature C		-0.32%/°C			
Material Cha	aracteristi	cs			
Dimensions		1722×1134×30mm (L×W×1	н		
Weight		21.4kg			
Frame		Black anodized aluminum p			
Front Glass		White toughened safety gl			
Cell Encapsulation Back Sheet		EVA (Ethylene-Vinyl-Acetat			
Cells		Transparent black-mesh ba			
Junction Box		12×9 pieces monocrystallir IP68, 3 diodes	të solar ceus senes strings		
Cable&Connector			gth can be customized , 1×4 mm2, c	compatible with MC4	
Packaging		Foldare 500 min feature long	System D		
Dimensions(L×W×H)		1760×1125×1253mm	Temperature Ran		-40 °C to + 85 °C
Container 20'		216	Withstanding Hai		n diameter of 25 mm w
		468			act speed of 23 m/s
Container 40'					
Container 40' Container 40'HC		936	Maximum Surface	e Load	5,400 Pa
		936	Maximum Surface Application class	e Load	5,400 Pa class A
Container 40'HC		936			class A
		936		IV-Cu	class A
Container 40'HC		936			class A
Container 40'HC Dimens		936 			class A
Container 40'HC Dimens		936	Application class	IV-Cu	class A
Container 40'HC Dimens			Application class	IV-Cu	class A
Container 40'HC Dimens			Application class	IV-Cu	class A
Container 40'HC Dimens			Application class	IV-Cu	class A
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1093±1

1134±1

Certificate:	800
Project:	801
Issued to:	VIE Lot Hoa VIE

PRODUCTS

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 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 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.

DQD 507 Rev. 2019-04-30

PALMETTO PROJECT: 355 HUNTING WOOD DR MUNICIPALITY: ANGIER, NC AUTHOR: EE A1 - PANEL SPECIFICATIONS PHONE: +1 843-720-1844 ZIP CODE: 27501 DATE: 15/MAY/23 Need on-site installation support? Palmetto Installation Hotline WWW.PALMETTO.COM CLIENT: JENNIFER LEE A050 KW DC-STC / 3.800 KW AC REV: - Call or Text: 1-843-258-5389 InstallHotline@Palmetto.com	
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Certificate of Compliance

098025

Master Contract: 265697

156103

Date Issued:

2023-02-07

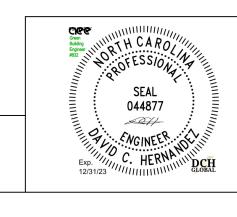
ETNAM SUNERGY JOINT STOCK COMPANY t III-Dong Vang Area, Dinh Tram Industrial Zone, ang Ninh Commune, Viet Yen District, 230000 Bac Giang Province, ETNAM

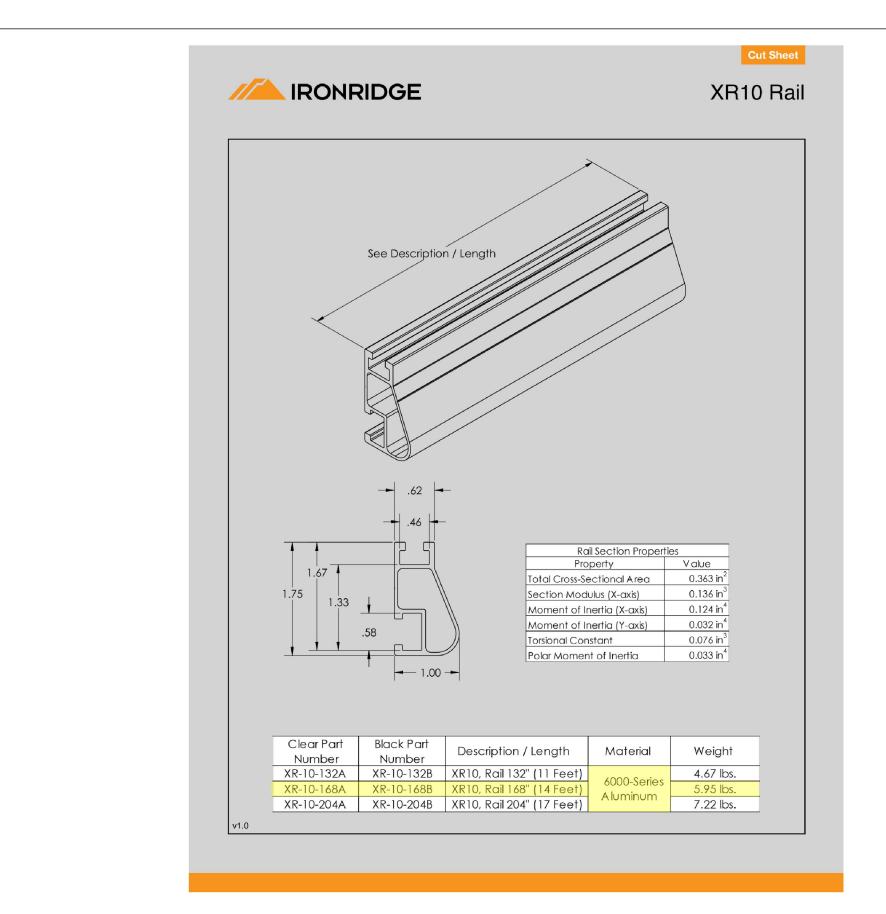
The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only



Issued by: Qiang (Sean) Jiang Qiang (Sean) Jiang

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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 DATE: 15/MAY/23 REV: -

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

InstallHotline@Palmetto.com

UL 2703 is the standard for evaluating solar mounting

UL Certification

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

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



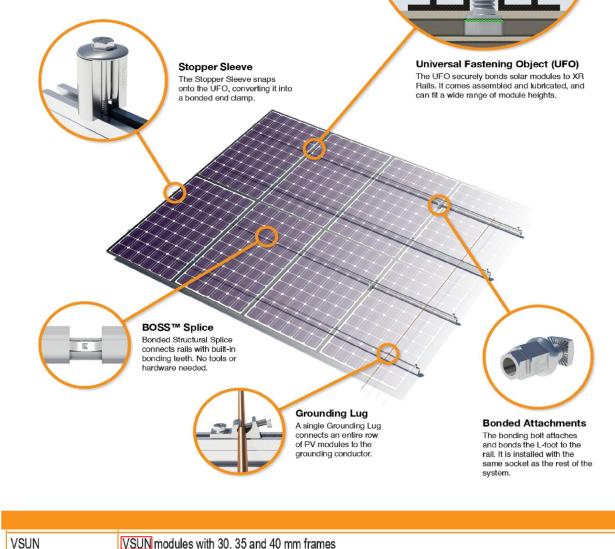


UFO Family of Components

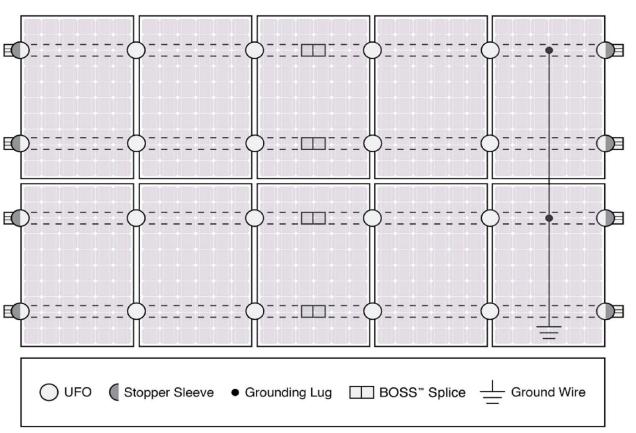
Simplified Grounding for Every Application

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.



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	Compatibi	
Feature	Flush Mount	Tilt Moun	
XR Rails	× .		
UFO/Stopper	✓ ·		
BOSS™ Splice	~	~	
Grounding Lugs	1 per Row	1 per Row	
Microinverters & Power Optimizers	Compatible with most MLF Refer to system instal		
Fire Rating	Class A Clas		
Modules	Tested or Evaluated with over Refer to installation manual		

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VSUNxxx-YYz-aa

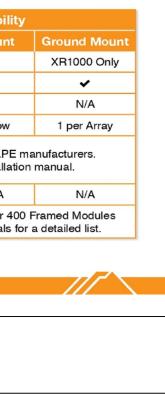
BW, or DG

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

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,

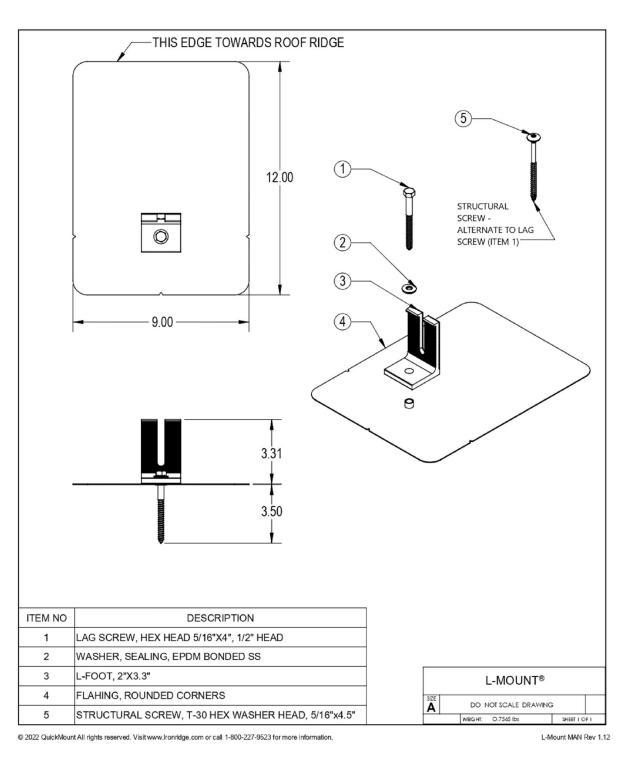
AUTHOR: EE	A3 - BONDING AND GROUNDING SPECIFICATIONS
DATE: 15/MAY/23 REV: -	Need on-site installation support? Palmetto Installation Hotline Call or Text: 1-843-258-5389 InstallHotline@Palmetto.com

Tech Brief





QuickMount[®]



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.



Locate, choose, and mark centers of rafters to be Carefully lift composition roof shingle with roofing Insert flashing between 1st and 2nd course. Slide mounted. Select the courses of shingles where bar, just above placement of mount. Remove up so top edge of flashing is at least 3/4" higher mounts will be placed.



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. page





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

All roofing manufacturers' written instructions must also be followed by anyone modifying a roof system. Consult the

the roof.

.

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

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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 **A4 - MOUNTING SPECIFICATIONS** Need on-site installation support? DATE: 15/MAY/23 Palmetto Installation Hotline REV: -Call or Text: 1-843-258-5389 InstallHotline@Palmetto.com



mount as a drill guide. Drill a 2" deep hole into

head bit.





Mark center for drilling.



desired orientation.

roof manufacturer's specs and

instructions prior to working on



L-Mount MAN Rev 1.12

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

solaredge.com

/ Specifically designed to work with power optimizers / UL1741 SA certified, for CPUC Rule 21 grid compliance

NVERTERS

- / Small, lightweight, and easy to install both outdoors or indoors
- Built-in module-level monitoring
- I Optional: Faster installations with built-in consumption metering (1% accuracy) and production revenue grade metering (0.5% accuracy, ANSI C12.20)



/ 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
APPLICABLE TO INVERTERS WITH PART NUMBER			SE	ххххн-ххххх	BXX4	
OUTPUT						
Rated AC Power Output	3000	3800 @ 240V 3300 @ 208V	5000	6000 @ 240V 5000 @ 208V	7600	10000
Maximum AC Power Output	3000	3800 @ 240V 3300 @ 208V	5000	6000 @ 240V 5000 @ 208V	7600	10000
AC Output Voltage MinNomMax. (211 - 240 - 264)	4	1	~	~	~	~
AC Output Voltage MinNomMax. (183 - 208 - 229)	-	~	-	~	-	-
AC Frequency (Nominal)				59.3 - 60 - 60.5(1		
Maximum Continuous Output Current @240V	12.5	16	21	25	32	42
Maximum Continuous Output Current @208V	-	16	-	24	-	-
Power Factor			1	, Adjustable - 0.85 to	0.85	
GFDI Threshold				1		
Utility Monitoring, Islanding Protection, Country Configurable Thresholds				Yes		
INPUT						
Maximum DC Power @240V	4650	5900	7750	9300	11800	15500
Maximum DC Power @208V	-	5100	-	7750	-	-
Transformer-less, Ungrounded				Yes		
Maximum Input Voltage				480		
Nominal DC Input Voltage			380			400
Maximum Input Current @240V ⁽²⁾	8.5	10.5	13.5	16.5	20	27
Maximum Input Current @208V ⁽²⁾	-	9	-	13.5	-	-
Max. Input Short Circuit Current				45		
Reverse-Polarity Protection				Yes		
Ground-Fault Isolation Detection				600kΩ Sensitivity		
Maximum Inverter Efficiency	99			-	99.2	
CEC Weighted Efficiency				99		
Nighttime Power Consumption	< 2.5					
ADDITIONAL FEATURES						
Supported Communication Interfaces			RS485, Ethernet,	ZigBee (optional), C	ellular (optional)	
Revenue Grade Metering, ANSI C12.20 Consumption metering	_	Optional ⁽²⁾				
Inverter Commissioning	With the SetApp mobile application using Built-in Wi-Fi Access Point for Local Connection					
Rapid Shutdown - NEC 2014, NEC 2017 and NEC 2020, 690.12		with the setApp moule application using Ballent with Access form for Local Connection Automatic Rapid Shutdown upon AC Grid Disconnect				
STANDARD COMPLIANCE						
Safety		UL1741, L	L1741 SA, UL1699B,			T.I.L. M-07
Grid Connection Standards		IEEE1547, Rule 21, Rule 14 (HI)				
Emissions				FCC Part 15 Class B		
INSTALLATION SPECIFICA	FIONS					
AC Output Conduit Size / AWG Range DC Input Conduit Size / # of Strings /			' Maximum / 14-6 AV mum / 1-2 strings / 1			1" Maximum /1 1" Maximum / 1-3 stri
AWG Range						
Dimensions with Safety Switch (HxWxD)			14.6 x 6.8 / 450 x 37		/ 11 0	21.3 x 14.6 x 7.3 / 5
Weight with Safety Switch	22 /		25.1/11.4	26.2	/ 11.9	38.8 / 1
Noise Cooling		<	25	Natural Convection		UC>
Operating Temperature Range			- 41	to +140 / -40 to +6	50(4	
Protection Rating						
	Example LISO00RNIC 4- Insu	NEMA 4X (Inverter with Safety Switch) xxH-US000BNC4: Inverter with Revenue Grade Production and Consumption Meter P/N: SExxxH-US000BN4 . For consumption metering, cu				

(3) Inverter with Revenue Grade Meter P/N: SExxxXH-US000BNC4: Inverter with Revenue Grade Production and Consumption Meter P/N: SExxxXH-US000BNH . For consumption metering should be ordered separately: SEACT0750-200NA-20 or SEACT0750-400NA-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-temperatur

A5 - INVERTER SPECIFICATIONS



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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

REV: -

DATE: 15/MAY/23

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	SE11400H-U	S	
	11400 @ 240V 10000 @ 208V		VA
	11400 @ 240V 10000 @ 208V		VA
	4		Vac
	~		Vac
_			Hz
	47.5		A
	48.5		A
_		_	
		-	A
		_	
	17650		W
	15500	-	W
			Vdc
			Vdc
	30.5		Adc
	27	-	Adc
			Adc
			%
	99 @ 240V 98.5 @ 208V		%
			W
		_	
		-	
		_	
_			
_		_	
1	14-4 AWG		
	ings / 14-6 AWG		
5	40 x 370 x 185		i/mm
1	7.6		b/kg
			dBA
		0	F/℃
	uroot tran-f		
C	urrent transformers		



Power Optimizer

For North America

S440, S500



POWER OPTIMIZE フ

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

* Expected availability in 2022

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 [®]	440	500	W
Absolute Maximum Input Voltage (Voc)		60	Vdc
MPPT Operating Range		8 - 60	Vdc
Maximum Short Circuit Current (lsc) of Connected PV Module	14.5	15	Adc
Maximum Efficiency		99.5	%
Weighted Efficiency		98.6	%
Overvoltage Category		Ш	
OUTPUT DURING OPERATION			
Maximum Output Current		15	Adc
Maximum Output Voltage		60	Vdc
OUTPUT DURING STANDBY (POWER OPTIMIZER DISC	ONNECTED FROM INV	/ERTER OR INVERTER OFF)	
afety Output Voltage per Power Optimizer		1+/-0.1	Vdc
STANDARD COMPLIANCE			
Photovoltaic Rapid Shutdown System		NEC 2014, 2017 & 2020	
EMC	FCC Part 15 Class B, IEC61000-6-2, IEC61000-6-3		
Safety	IEC62109-1 (class II safety), UL1741		
Material		UL94 V-0, UV Resistant	
RoHS	Yes		
Fire Safety		VDE-AR-E 2100-712:2013-05	
NSTALLATION 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		
Weight (including cables)	655 / 1.5		
nput Connector	MC4 ²¹		
nput Wire Length	0.1 / 0.32		
Dutput Connector	MC4		
Output Wire Length	(+) 2.3, (-) 0.10 / (+) 7.54, (-) 0.32	m/f
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 (2) For other connector types please contact Solar Edge

(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 ^{°°}	
Maximum Nominal Power per String		5700 (6000 with SE7600-US-SE11400-U)	6000	12750	W
Maximum Allowed Connected Power per String [®] (Permitted only when the difference in connected power between strings is 1,000W or less)			One string 7200	45000	w
		Refer to Footnote 5	Two strings or more 7800	15000	
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 & 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



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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	A6 - OPTIMIZER SPECIFICATIONS
DATE: 15/MAY/23 REV: -	Need on-site installation support? Palmetto Installation Hotline Call or Text: 1-843-258-5389 InstallHotline@Palmetto.com

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