

December 1, 2022

Sustainable Energy and Lighting Solutions 8351 Palmetto Commerce Parkway, Ste. 203 Ladson, SC 29456

> Re: Engineering Services Evans Residence 875 Troy Parker Lane, Dunn, NC 13.650 kW System

To Whom It May Concern:

We have received information regarding solar panel installation on the roof of the above referenced structure. Our evaluation of the structure is to verify the existing capacity of the roof system and its ability to support the additional loads imposed by the proposed solar system.

A. Site Assessment Information

- 1. Site visit documentation identifying attic information including size and spacing of framing for the existing roof structure.
- Design drawings of the proposed system including a site plan, roof plan and connection details for the solar panels. This information will be utilized for approval and construction of the proposed system.
- B. Description of Structure:

Roof Framing 1: Assumed 2x6 dimensional lumber at 16" on center.Roof Framing 2: Assumed 2x6 dimensional lumber at 16" on center.Roof Material 1: Composite Asphalt ShinglesRoof Material 2: Metal RoofRoof Slope:20 degreesAttic Access:InaccessibleFoundation:Permanent

- C. Loading Criteria Used
 - Dead Load
 - Existing Roofing and framing = 7 psf
 - New Solar Panels and Racking = 3 psf
 - TOTAL = 10 PSF
 - Live Load = 20 psf (reducible) 0 psf at locations of solar panels
 - Ground Snow Load = 15 psf
 - Wind Load based on ASCE 7-10
 - Ultimate Wind Speed = 115 mph (based on Risk Category II)
 - Exposure Category C

Analysis performed of the existing roof structure utilizing the above loading criteria is in accordance with the 2018 NCRC, including provisions allowing existing structures to not require strengthening if the new loads do not exceed existing design loads by 105% for gravity elements and 110% for seismic elements. This analysis indicates that the existing framing will support the additional panel loading without damage, if installed correctly.

D. Solar Panel Anchorage

1.

- i. The solar panels shall be mounted in accordance with the most recent Roof Tech installation manual. If during solar panel installation, the roof framing members appear unstable or deflect non-uniformly, our office should be notified before proceeding with the installation.
- ii. The solar panels shall be mounted in accordance with the most recent S-5! installation manual. If during solar panel installation, the roof framing members appear unstable or deflect non-uniformly, our office should be notified before proceeding with the installation.
- 2.
- i. The maximum allowable withdrawal force for a M5 x 60mm lag screw is 213 lbs per inch of penetration as identified in the National Design Standards (NDS) of timber construction specifications. Based on a minimum penetration depth of 2", the allowable capacity per connection is greater than the design withdrawal force (demand). Considering the variable factors for the existing roof framing and installation tolerances, the connection using two (2) M5 x 60mm lag screw with a minimum of 2" embedment will be adequate and will include a sufficient factor of safety.
- ii. System will be attached to the metal roofing material utilizing the patented S-5! Connection. Installation of the connections shall be in accordance with the manufacturer's recommendations.
- 3. Considering the wind speed, roof slopes, size and spacing of framing members, and condition of the roof, the panel supports shall be placed no greater than 72" on center.
- 4. Panel supports connections shall be staggered to distribute load to adjacent framing members.

Based on the above evaluation, this office certifies that with the racking and mounting specified, the existing roof system will adequately support the additional loading imposed by the solar system. This evaluation is in conformance with the 2018 NCRC, current industry standards, and is based on information supplied to us at the time of this report.

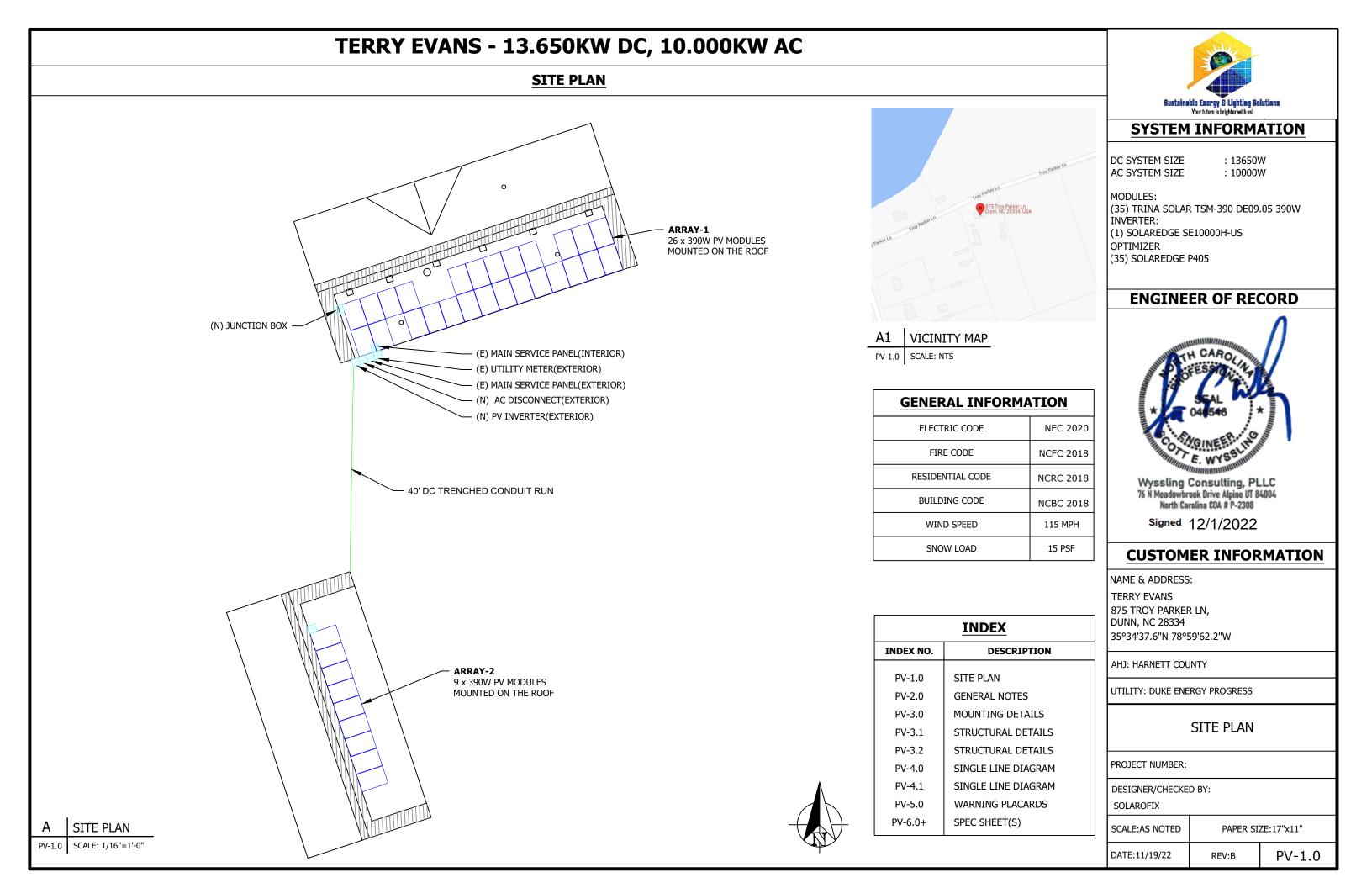
Should you have any questions regarding the above or if you require further information do not hesitate to contact me.

VOURS

Scott E. Wyssling, PE North Carolina Licente Pc. 46546 North Carolina COA #P-2308







GENERAL NOTES

GENERAL NOTES

- 1. MODULES ARE LISTED UNDER UL 1703 AND CONFORM TO THE STANDARDS.
- 2. INVERTERS ARE LISTED UNDER UL 1741 AND CONFORM TO THE STANDARDS.
- 3. DRAWINGS ARE DIAGRAMMATIC, INDICATING GENERAL ARRANGEMENT OF THE PV SYSTEM AND THE ACTUAL SITE CONDITION MIGHT VARY.
- 4. WORKING CLEARANCES AROUND THE NEW PV ELECTRICAL EQUIPMENT WILL BE MAINTAINED IN ACCORDANCE WITH NEC 110.26(A)(1).
- 5. ALL GROUND WIRING CONNECTED TO THE MAIN SERVICE GROUNDING IN MAIN SERVICE PANEL/ SERVICE EOUIPMENT.
- 6. ALL CONDUCTORS SHALL BE 600V, 75°C STANDARD COPPER UNLESS OTHERWISE NOTED.
- 7. WHEN REQUIRED, A LADDER SHALL BE IN PLACE FOR INSPECTION IN COMPLIANCE WITH OSHA REGULATIONS.
- 8. THE SYSTEM WILL NOT BE INTERCONNECTED BY THE CONTRACTOR UNTIL APPROVAL FROM THE LOCAL JURISDICTION AND/OR THE UTILITY.
- 9. ROOF ACCESS POINT SHALL BE LOCATED IN AREAS THAT DO NOT REOUIRE THE PLACEMENT OF GROUND LADDERS OVER OPENINGS SUCH AS WINDOWS OR DOORS, AND LOCATED AT STRONG POINTS OF BUILDING CONSTRUCTION WHERE THE ACCESS POINT DOES NOT CONFLICT WITH OVERHEAD OBSTRUCTIONS SUCH AS TREES, WIRES OR SIGNS.
- 10. PV ARRAY COMBINER/JUNCTION BOX PROVIDES TRANSITION FROM ARRAY WIRING TO CONDUIT WIRING

EOUIPMENT LOCATION:

- 11. ALL EQUIPMENT SHALL MEET MINIMUM SETBACKS AS REQUIRED BY NEC 110.26(A)(1).
- 12. WIRING SYSTEMS INSTALLED IN DIRECT SUNLIGHT MUST BE RATED FOR EXPECTED OPERATING TEMPERATURE AS SPECIFIED BY NEC 690.31(A),(C) AND NEC TABLES 310.15(B)(2)(A) AND 310.15(B)(3)(C).
- 13. JUNCTION AND PULL BOXES PERMITTED INSTALLED UNDER PV MODULES ACCORDING TO NEC 690.34.
- 14. ADDITIONAL AC DISCONNECT(S) SHALL BE PROVIDED WHERE THE INVERTER IS NOT WITHIN SIGHT OF THE AC SERVICING DISCONNECT.
- 15. ALL EQUIPMENT SHALL BE INSTALLED ACCESSIBLE TO QUALIFIED PERSONNEL ACCORDING TO NEC APPLICABLE CODES.
- 16. ALL COMPONENTS ARE LISTED FOR THEIR PURPOSE AND RATED FOR OUTDOOR USAGE WHEN APPROPRIATE.

STRUCTURAL NOTES:

- 17. RACKING SYSTEM & PV ARRAY WILL BE INSTALLED ACCORDING TO CODE-COMPLIANT INSTALLATION MANUAL. TOP CLAMPS REQUIRE A DESIGNATED SPACE BETWEEN MODULES, AND RAILS MUST ALSO EXTEND A MINIMUM DISTANCE BEYOND EITHER EDGE OF THE ARRAY/SUBARRAY, ACCORDING TO RAIL MANUFACTURER'S INSTRUCTIONS.
- 18. JUNCTION BOX WILL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS. IF ROOF-PENETRATING TYPE, IT SHALL BE FLASHED & SEALED PER LOCAL REQUIREMENTS.
- 19. ROOFTOP PENETRATIONS FOR PV RACEWAY WILL BE COMPLETED AND SEALED WITH APPROVED CHEMICAL SEALANT PER CODE BY A LICENSED CONTRACTOR.
- 20. ALL PV RELATED ROOF ATTACHMENTS TO BE SPACED NO GREATER THAN THE SPAN DISTANCE SPECIFIED BY THE RACKING MANUFACTURER.
- 21. WHEN POSSIBLE, ALL PV RELATED RACKING ATTACHMENTS WILL BE STAGGERED AMONGST THE ROOF FRAMING MEMBERS.

WIRING & CONDUIT NOTES:

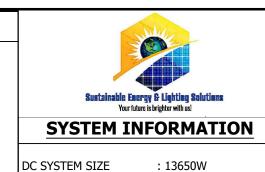
- 22. ALL CONDUIT AND WIRE WILL BE LISTED AND APPROVED FOR THEIR PURPOSE. CONDUIT AND WIRE SPECIFICATIONS ARE BASED ON MINIMUM CODE REQUIREMENTS AND ARE NOT MEANT TO LIMIT UP-SIZING.
- 23. CONDUCTORS SIZED ACCORDING TO NEC 690.8, NEC 690.7.
- 24. DC WIRING LIMITED TO MODULE FOOTPRINT. MICRO INVERTER WIRING SYSTEMS SHALL BE LOCATED AND SECURED UNDER THE ARRAY WITH SUITABLE WIRING CLIPS.
- 25. AC CONDUCTORS COLORED OR MARKED AS FOLLOWS: PHASE A OR L1- BLACK PHASE B OR L2- RED, OR OTHER CONVENTION IF THREE PHASE PHASE C OR L3- BLUE, YELLOW, ORANGE**, OR OTHER CONVENTION NEUTRAL-WHITE OR GREY IN 4-WIRE DELTA CONNECTED SYSTEMS THE PHASE WITH HIGHER VOLTAGE TO BE MARKED ORANGE [NEC 110.15].

INTERCONNECTION NOTES:

- 26. LOAD-SIDE INTERCONNECTION SHALL BE IN ACCORDANCE WITH [NEC 690.64(B)]
- 27. THE SUM OF THE UTILITY OCPD AND INVERTER CONTINUOUS INPUT MAY NOT EXCEED 120% OF BUSBAR RATING [NEC 705.12(D)(2)(3)].
- 28. WHEN SUM OF THE PV SOURCES EQUALS >100% OF BUSBAR RATING, PV DEDICATED BACKFFED BREAKERS MUST BE LOCATED OPPOSITE END OF THE BUS FROM THE UTILITY SOURCE OCPD [NEC 705.12(D)(2)(3)].
- 29. AT MULTIPLE PV OUTPUT COMBINER PANEL, TOTAL RATING OF ALL OVER CURRENT DEVICES SHALL NOT EXCEED AMPACITY OF BUSBAR. HOWEVER, THE COMBINED OVER CURRENT DEVICE MAY BE EXCLUDED ACCORDING TO NEC 705.12(D)(2)(3)(C).
- 30. FEEDER TAP INTER CONNECTION (LOAD SIDE) ACCORDING TO NEC 705.12(D)(2)(1)SUPPLY SIDE TAP INTERCONNECTION ACCORDING TO NEC 705.12(A) WITH SERVICE ENTRANCE CONDUCTORS IN ACCORDANCE WITH NEC 230.42 BACK FEEDING BREAKER FOR UTILITY-INTERACTIVE INVERTER OUTPUT IS EXEMPT FROM ADDITIONAL FASTENING [NEC 705.12(D)(5)].

GROUNDING NOTES:

- 31. GROUNDING SYSTEM COMPONENTS SHALL BE LISTED FOR THEIR PURPOSE, AND GROUNDING DEVISES EXPOSED TO THE ELEMENTS SHALL BE RATED FOR SUCH USE.
- 32. PV EQUIPMENT SHALL BE GROUNDED ACCORDING TO NEC 690.43 AND MINIMUM NEC 250.122.
- 33. METAL PARTS OF MODULE FRAMES, MODULE RACKING, AND ENCLOSURES CONSIDERED GROUNDED IN ACCORD WITH 250.134 AND 250.136(A).
- 34. EOUIPMENT GROUNDING CONDUCTORS SHALL BE SIZED ACCORDING TO NEC 690.45 AND MICRO INVERTER MANUFACTURER'S INSTRUCTIONS.
- 35. EACH MODULE WILL BE GROUNDED USING WEEB GROUNDING CLIPS AS SHOWN IN MANUFACTURER DOCUMENTATION AND APPROVED BY THE AHJ. IF WEEBS ARE NOT USED, MODULE GROUNDING LUGS MUST BE INSTALLED AT THE SPECIFIED GROUNDING LUG HOLES PER THE MANUFACTURERS' INSTALLATION REQUIREMENTS.
- 36. THE GROUNDING CONNECTION TO A MODULE SHALL BE ARRANGED SUCH THAT THE REMOVAL OF A MODULE DOES NOT INTERRUPT A GROUNDING CONDUCTOR TO ANOTHER MODULE.
- 37. GROUNDING AND BONDING CONDUCTORS, IF INSULATED, SHALL BE COLORED GREEN OR MARKED GREEN IF #4 AWG OR LARGER [NEC 250.119]
- 38. THE GROUNDING ELECTRODE SYSTEM COMPLIES WITH NEC 690.47 AND NEC 250.50 THROUGH 250.106. IF EXISTING SYSTEM IS INACCESSIBLE, OR INADEQUATE, A GROUNDING ELECTRODE SYSTEM PROVIDED ACCORDING TO NEC 250, NEC 690.47 AND AHJ.
- 39. GROUND-FAULT DETECTION SHALL COMPLY WITH NEC 690.5 IN GENERAL AND NEC 690.5(A)(1) SPECIFICALLY.
- 40. DISCONNECTION AND OVER-CURRENT PROTECTION NOTES:
- 41. DISCONNECTING SWITCHES SHALL BE WIRED SUCH THAT WHEN THE SWITCH IS OPENED THE CONDUCTORS REMAINING ENERGIZED ARE CONNECTED TO THE TERMINALS MARKED "LINE SIDE" (TYPICALLY THE UPPER TERMINALS).
- 42. DISCONNECTS TO BE ACCESSIBLE TO QUALIFIED UTILITY PERSONNEL, BE LOCKABLE, AND BE A VISIBLE-BREAK SWITCH
- 43. RAPID SHUTDOWN OF ENERGIZED CONDUCTORS BEYOND 10 FT OF PV ARRAY OR 5 FT INSIDE A BUILDING WITHIN 10 SECONDS. CONTROLLED CONDUCTORS ≤30V AND ≤240VA [NEC 690.12]. LOCATION OF LABEL ACCORDING TO AHJ.
- 44. ALL OCPD RATINGS AND TYPES SPECIFIED ACCORDING TO NEC 690.8,690.9 AND 240.
- 45. MICRO INVERTER BRANCHES CONNECTED TO A SINGLE BREAKER OR GROUPED FUSES IN ACCORDANCE WITH NEC 110.3(B), 2.6.7 IF REOUIRED BY AHJ, SYSTEM WILL INCLUDE ARC-FAULT CIRCUIT PROTECTION ACCORDING TO NEC 690.11 AND UL1699B.



MODULES: (35) TRINA SOLAR TSM-390 DE09.05 390W INVERTER: (1) SOLAREDGE SE10000H-US OPTIMIZER (35) SOLAREDGE P405

: 10000W

AC SYSTEM SIZE

ENGINEER OF RECORD



Signed 12/1/2022

CUSTOMER INFORMATION

NAME & ADDRESS:

TERRY EVANS 875 TROY PARKER LN, DUNN, NC 28334 35°34'37.6"N 78°59'62.2"W

AHJ: HARNETT COUNTY

UTILITY: DUKE ENERGY PROGRESS

GENERAL NOTES

PROJECT NUMBER:

DESIGNER/CHECKED BY:

SOLAROFIX

SCALE: AS NOTED PAPER SIZE:17"x11" DATE:11/19/22 REV:B PV-2.0

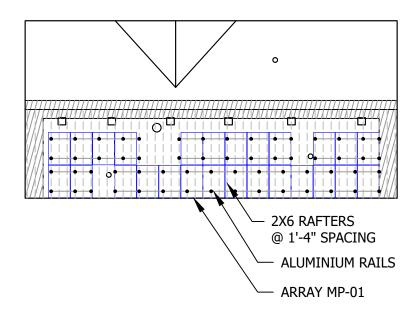
MO	DULES DATA							SITE INFOR	MATION				
TRINA SOLAR	TSM-390 DE09.05 390W			DITOU	NO. OF	ARRAY AREA			ROOF		FRAME	FRAME	Ν
MODULE DIMS	69.06"x43.15"x1.18"	SR.NO	AZIMUTH	PITCH	MODULES	(SQ. FT.)	ROOF TYPE	ATTACHMENT	EXPOSURE	FRAME TYPE	SIZE	SPACING	
LAG SCREWS	5/16"x3.5":2.5"MIN EMBEDMENT	MP-01	162°	20°	26	537.94	COMPOSITION	ROOF	ATTIC	RAFTERS	2 X 6	1'-4"	
FIF	RE SETBACK		102	20	20	557.51	SHINGLE	TECH/RT-MINI II	ATTIC		270		
		MP-02	72°	20°	9	186.21	METAL	S-5! CORRUBRACKET	ATTIC	RAFTERS	2 X 6	1'-4"	
MINIMUM FIRE ACCESS PA	THWATS PER CFC 2019						-						

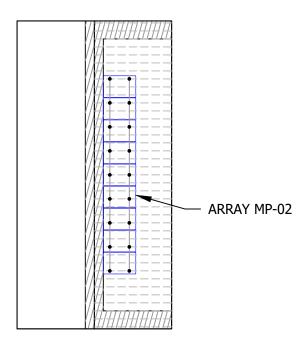
RIDGE TO ARRAY: 1'-6" EAVE TO ARRAY : 3'-0" HIP/VALLEY W/ ADJACENT ARRAY: 1'-6" EACH SIDE HIP/VALLEY W/O ADJACENT ARRAY: 0'-0"

NOTE: INSTALLER TO VERIFY RAFTER SIZE, SPACING AND SLOPED SPANS, AND NOTIFY ANY DISCREPANCIES BEFORE PROCEEDING.

AERIAL VIEW



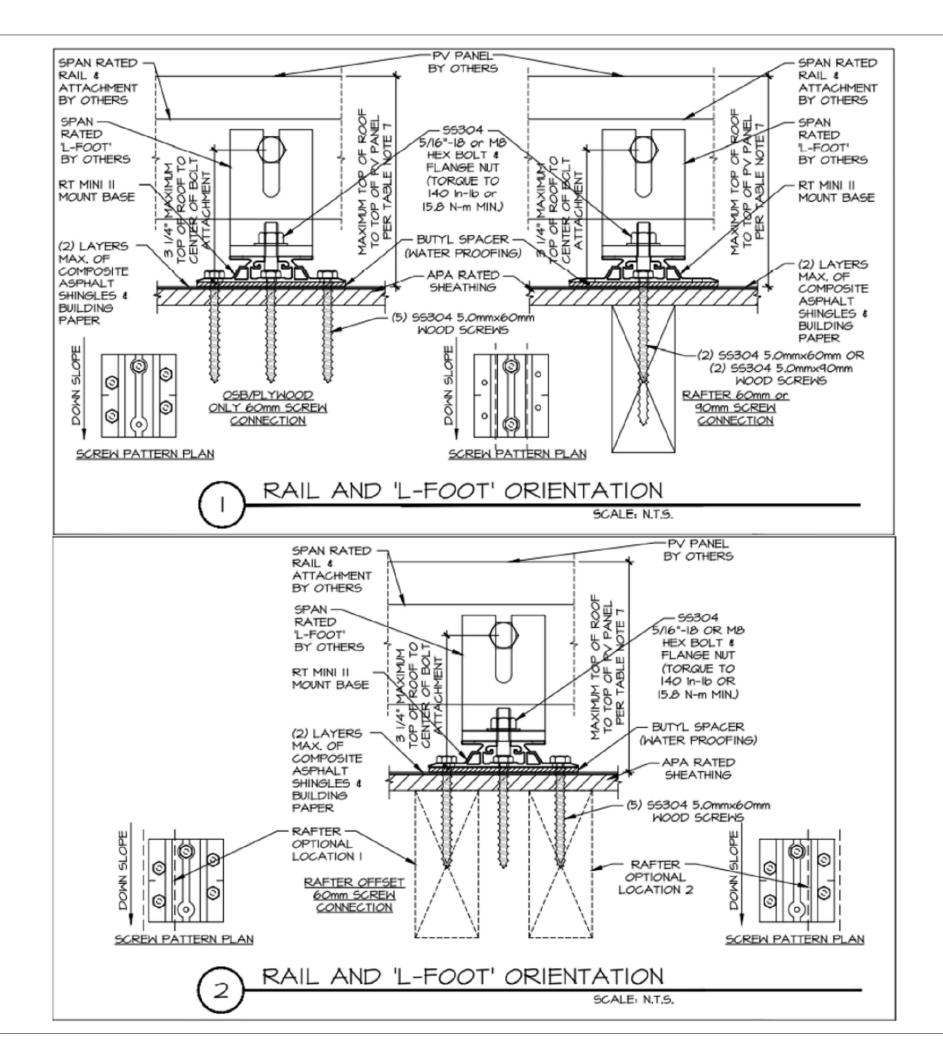


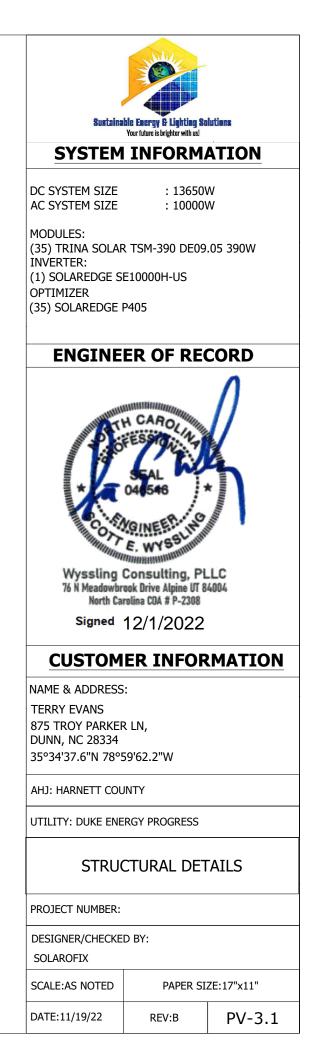


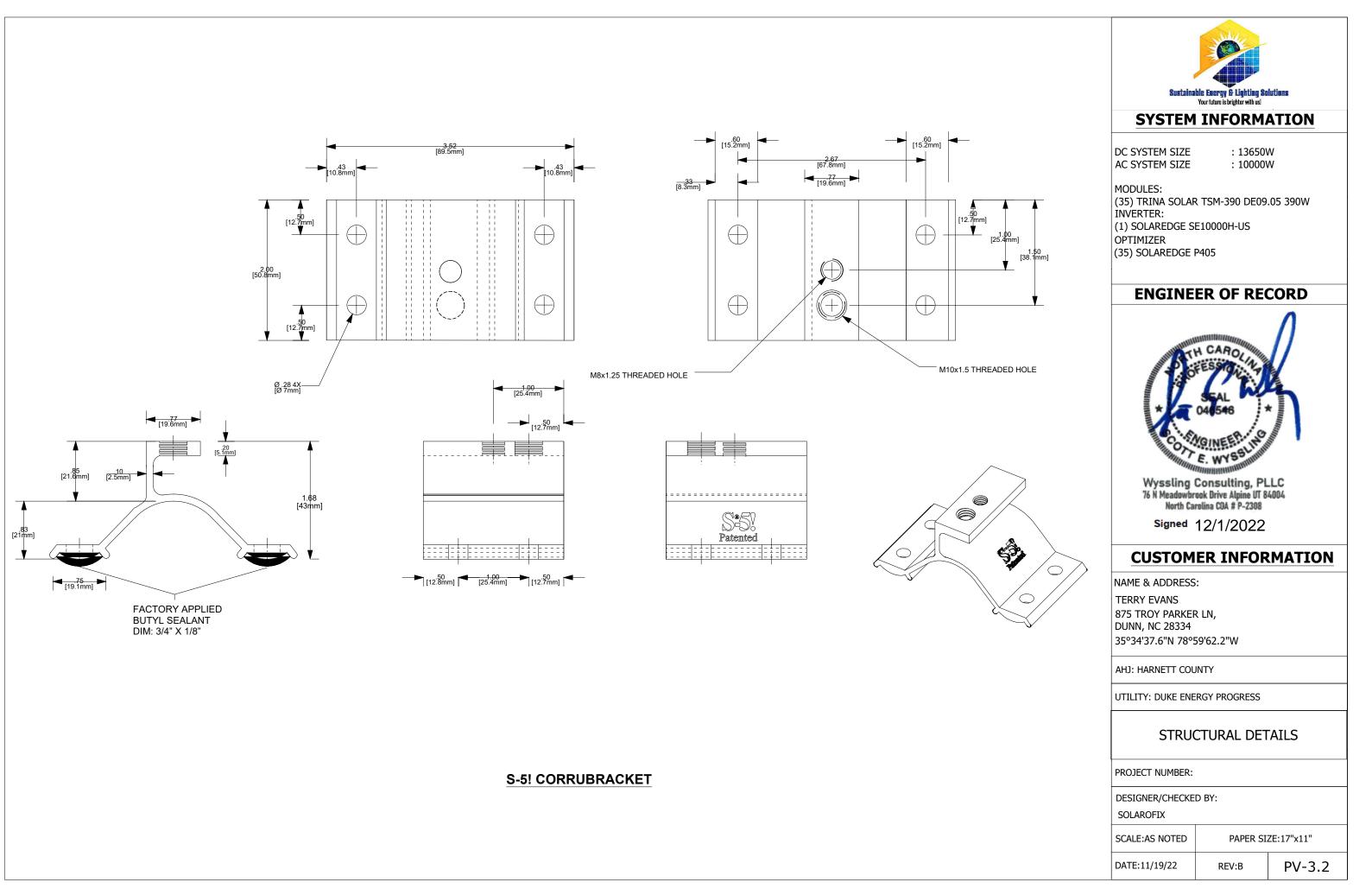
B MOUNTING DETAILS

PV-3.0 SCALE: 1/16"=1'-0"

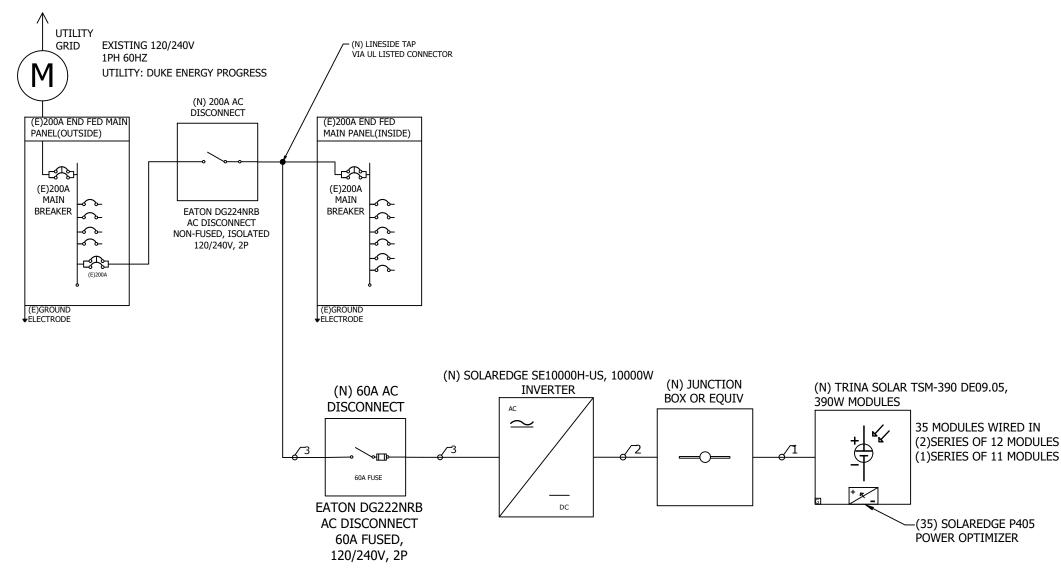
AN HANG				
	-			
	4'-0" 2'-0			
2'-0" SYSTEM INFORMATION	4'-0" 2'-(
DC SYSTEM SIZE : 13650W AC SYSTEM SIZE : 10000W MODULES: (35) TRINA SOLAR TSM-390 DE09.05 390W INVERTER: (1) SOLAREDGE SE10000H-US OPTIMIZER				
(35) SOLAREDGE P405				
ENGINEER OF RECORD				
Wyssling Consulting, PLLC 76 M Meadowbrook Drive Alpine UT 84004 North Carolina COA # P-2308 Signed 12/1/2022				
CUSTOMER INFORMATION				
NAME & ADDRESS: TERRY EVANS 875 TROY PARKER LN, DUNN, NC 28334 35°34'37.6"N 78°59'62.2"W				
AHJ: HARNETT COUNTY				
UTILITY: DUKE ENERGY PROGRESS				
MOUNTING DETAILS				
PROJECT NUMBER:				
DESIGNER/CHECKED BY: SOLAROFIX				
SCALE:AS NOTED PAPER SIZE:17"x11"				
DATE:11/19/22 REV:B PV-3.0				

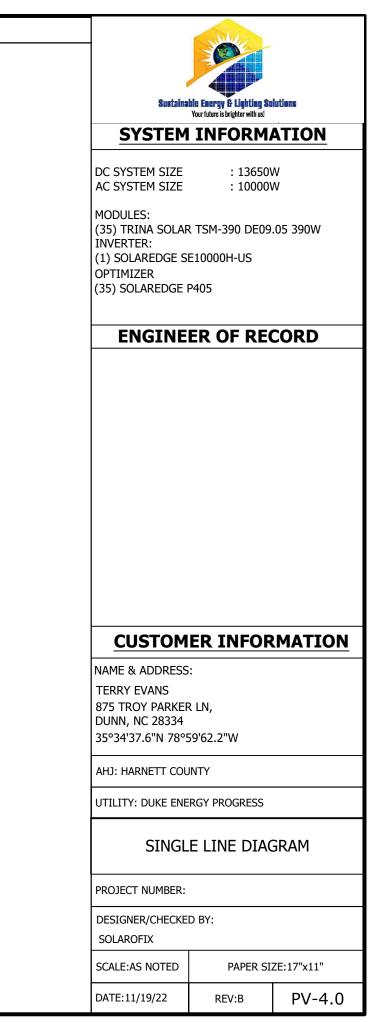






SINGLE LINE DIAGRAM: DC SYSTEM SIZE - 13.650KW DC, 10.000KW AC





SINGLE LINE DIAGRAM: DC SYSTEM SIZE - 13.650kW DC, 10.000kW AC

MODULE SPI	ECIFICATION
MODEL	TRINA SOLAR TSM-390 DE09.05 390W
MODULE POWER @ STC	390W
OPEN CIRCUIT VOLTAGE:Voc	40.8V
MAX POWER VOLTAGE:Vmp	33.8V
SHORT CIRCUIT VOLTAGE:Isc	12.14A
MAX POWER CURRENT:Imp	11.54A

INVERTER-1 SP	ECIFICATIONS
MODEL	SOLAREDGE SE10000H-US INVERTER
POWER RATING	10000W
MAX OUTPUT CURRENT	42A
CEC WEIGHTED EFFICIENCY	99.2%
MAX INPUT CURRENT	27A
MAX DC VOLTAGE	480V

	CONDUIT SCHEDULE							
TAG ID	CONDUIT SIZE	CONDUCTOR	NEUTRAL	GROUND				
1	NONE	(2) PV WIRE 12AWG THHN/THWN-2	NONE	(1) 4 AWG BARE COPPER				
2	3/4"EMT OR EQUIV	(6) 10AWG THHN/THWN-2	NONE	(1) 10 AWG THHN/THWN-2				
3	3/4"EMT OR EQUIV	(2) 6 AWG THHN/THWN-2	(1) 6 AWG THHN/THWN-2	(1) 6 AWG THHN/THWN-2				

ELECTRICAL NOTES:
1. MAXIMUM DC/AC VOLTAGE DROP S
MORE THAN 2%.
2. BREAKER/FUSE SIZES CONFORMS T
NEC 240.6 CODE SECTION.
3. AC GROUNDING ELECTRODE COND
SIZED PER NEC 250.66.
4. AMBIENT TEMPERATURE CORRECT
BASED ON NEC 690.31(A).
5. AMBIENT TEMPERATURE ADJUSTM
BASED ON NEC 310.15(B)(2)(C) AND 3
 6. AC SYSTEM VOLTAGE CORRECTION
690.7(A)
7. CONDUCTORS ARE SIZED PER WIR
TABLE NEC 310.15(B)(16).
 8. CONDUCTORS EXPOSED TO SUNLIG
LISTED AS SUNLIGHT RESISTANT PER
9. CONDUCTORS EXPOSED TO WET LO
BE SUITABLE FOR USE IN WET LOCAT
310.10(C).

ELECTRICAL CALCULATION

AC WIRE CALCULATIONS:- MATERIAL:COPPER & TEMPERATURE RATING:75°C TAG ID REQUIRED CONDUCTOR AMPACITY CORRECTED AMPACITY CALCULATION TERMINAL RATING CHECK DERATED CONDUCTOR AMPACITY CHECK X 1 1.25 18.75A 25 X 0.91 X 1 1 15 = 15 Х = 22.75A 18.75A 20A 18.75A 22.75A = < < 2 18.75A 35 X 0.91 X 0.8 15 X 1 Х 1.25 = 15 = 25.48A 18.75A < 20A 18.75A 25.48A = < 3 42 х 52.50A 65 X 0.91 X 1 42 X 1 1.25 59.15A 52.50A <= 60A 52.50A 59.15A = = <

		ble Energy & Lighting So Your future is brighter with us INFORM	
	DC SYSTEM SIZE AC SYSTEM SIZE		
	MODULES: (35) TRINA SOLAF INVERTER: (1) SOLAREDGE SI OPTIMIZER (35) SOLAREDGE I	E10000H-US	.05 390W
	ENGINE	ER OF REC	CORD
		ER INFOR	MATION
	NAME & ADDRESS	:	
SHALL BE NO TO	TERRY EVANS 875 TROY PARKEF DUNN, NC 28334 35°34'37.6"N 78°5		
DUCTOR	AHJ: HARNETT COL	INTY	
TION FACTOR IS	UTILITY: DUKE ENE	RGY PROGRESS	
1ENT FACTOR IS 310.15(B)(2)(B) N IS PER NEC	SINGL	e line diag	GRAM
RE AMPACITY	PROJECT NUMBER:		
IGHT SHALL BE	DESIGNER/CHECKE SOLAROFIX	D BY:	
R NEC 310.10(D). LOCATIONS SHALL	SCALE:AS NOTED	PAPER SI	ZE:17"x11"
TIONS PER NEC	DATE:11/19/22	REV:B	PV-4.1

WARNING PLACARDS

WARNING

ELECTRIC SHOCK HAZARD

THE DC CONDUCTORS OF THIS PHOTOVOLTAIC SYSTEM ARE UNGROUNDED AND MAY BE ENERGIZED

LABEL LOCATION

DC DISCONNECT.INVERTER [PER CODE: NEC 690.41)] [To be used when inverter is ungrounded]

WARNING

ELECTRIC SHOCK HAZARD DO NOT TOUCH TERMINALS TERMINALS ON BOTH LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION

DC VOLTAGE IS ALWAYS PRESENT WHEN SOLAR MODULES ARE EXPOSED TO SUNLIGHT

LABEL LOCATION

AC DISCONNECT, POINT OF INTERCONNECTION [PER CODE: NEC 690.13(B)]

WARNING

ELECTRIC SHOCK HAZARD

DO NOT TOUCH TERMINALS TERMINALS ON BOTH LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION

LABEL LOCATION

AC DISCONNECT, POINT OF INTERCONNECTION [PER CODE: NEC 690.13(B)]

WARNING-Electric Shock Hazard No User Serviceable Parts inside Contact authorized service provide for assistance

LABEL LOCATION INVERTER, JUNCTION BOXES(ROOF), AC DISCONNECT [PER CODE: NEC 690.13]

WARNING:PHOTOVOLTAIC **POWER SOURCE**

LABEL LOCATION CONDUIT, COMBINER BOX [PER CODE: NEC690.31(G)(3)]

WARNING

DUAL POWER SOURCE SECOND SOURCE IS PHOTOVOLTAIC SYSTEM

LABEL LOCATION

POINT OF INTERCONNECTION [PER CODE: NEC705.12(D)(4)]

PHOTOVOLTAIC SYSTEM DC DISCONNECT

MAX VOLTAGE 480 VDC MAX CIRCUIT CURRENT 42 ADC MAX RATED OUTPUT CURRENT OF THE ADC CHARGE CONTROLLER OR DC TO DC CONCERTER (IF INSTALLED)

LABEL LOCATION

DC DISCONNECT SWITCH, INVERTER [PER. CODE:NEC 690.53]

PHOTOVOLTAIC SYSTEM AC DISCONNECT SWITCH

RATED AC OPERATING CURRENT **42.00** AMPS AC AC NOMINAL OPERATING VOLTAGE 240 VAC

LABEL LOCATION

AC DISCONNECT, POINT OF INTERCONNECTION [PER CODE: NEC 690.54]

WARNING

INVERTER OUTPUT CONNECTION DO NOT RELOCATE THIS **OVER-CURRENT DEVICE**

LABEL LOCATION

POINT OF INTERCONNECTION (PER CODE: NEC 705.12(2)(b) [Not Required if Panel board is rated not less than sum of ampere ratings of all overcurrent devices supplying it]

CAUTION: SOLAR CIRCUIT

LABEL LOCATION

MARKINGS PLACED ON ALL INTERIOR AND EXTERIOR DC CONDUIT, RACEWAYS, ENCLOSURES AND CABLE ASSEMBLES AT LEAST EVERY 10 FT, AT TURNS AND ABOVE/BELOW PENETRATIONS AND ALL COMBINER/JUNCTION BOXES. (PER CODE: NEC1204.5)

SOLAR DISCONNECT

LABEL LOCATION

DISCONNECT, POINT OF INTERCONNECTION [PER CODE: NEC 690.13(B)]

CAUTION: SOLAR ELECTRIC SYSTEM CONNECTED

LABEL LOCATION

WEATHER RESISTANT MATERIAL, DURABLE ADHESDIVE, UL969 AS STANDARD TO WEATHER RATING (UL LISTING OF MARKINGS NOT REQUIRED), MIN ³/₈" LETTER HEIGHT ARIAL OR SIMILAR FONT NON-BOLD, PLACED WITHIN THE MAIN SERVICE DISCONNECT, PLACED ON THE OUTSIDE OF THE COVER WHEN DISCONNECT IS OPERATED WITH THE SERVICE PANEL CLOSED. (PWER CODE: NEC690.15,690.13(B))

RAPID SHUTDOWN SWITCH FOR SOLAR SYSTEM

LABEL LOCATION

INVERTER, POINT OF INTERCONNECTION [PER CODE: NEC 690.56(C)(3)]

SOLAR PV SYSTEM EOUIPPED WITH RAPID SHUTDOWN

TURN RAPID SHUTDOWN SWITCH TO THE **"OFF" POSITION TO** SHUT DOWN PV SYSTEM AND REDUCE

SHOCK HAZARD IN THE ARRAY

LABEL LOCATION AC DISCONNECT, DC DISCONNECT, POINT OF INTERCONNECTION (PER CODE: NEC690.56(C)(1)(A))

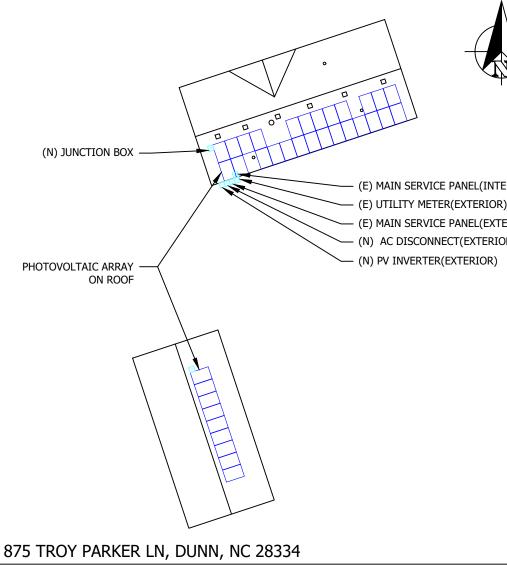
ALL PLACARDS SHALL BE OF WEATHER PROOF CONSTRUCTION, BACKGROUND ON ALL PLACARI WITH WHITE LETTERING U.O.N.

PLACARD SHALL BE MOUNTED DIRECTLY ON THE EXISTING UTILITY ELECTRICAL SERVICE.FAST APPROVED BY THE LOCAL JURISDICTION

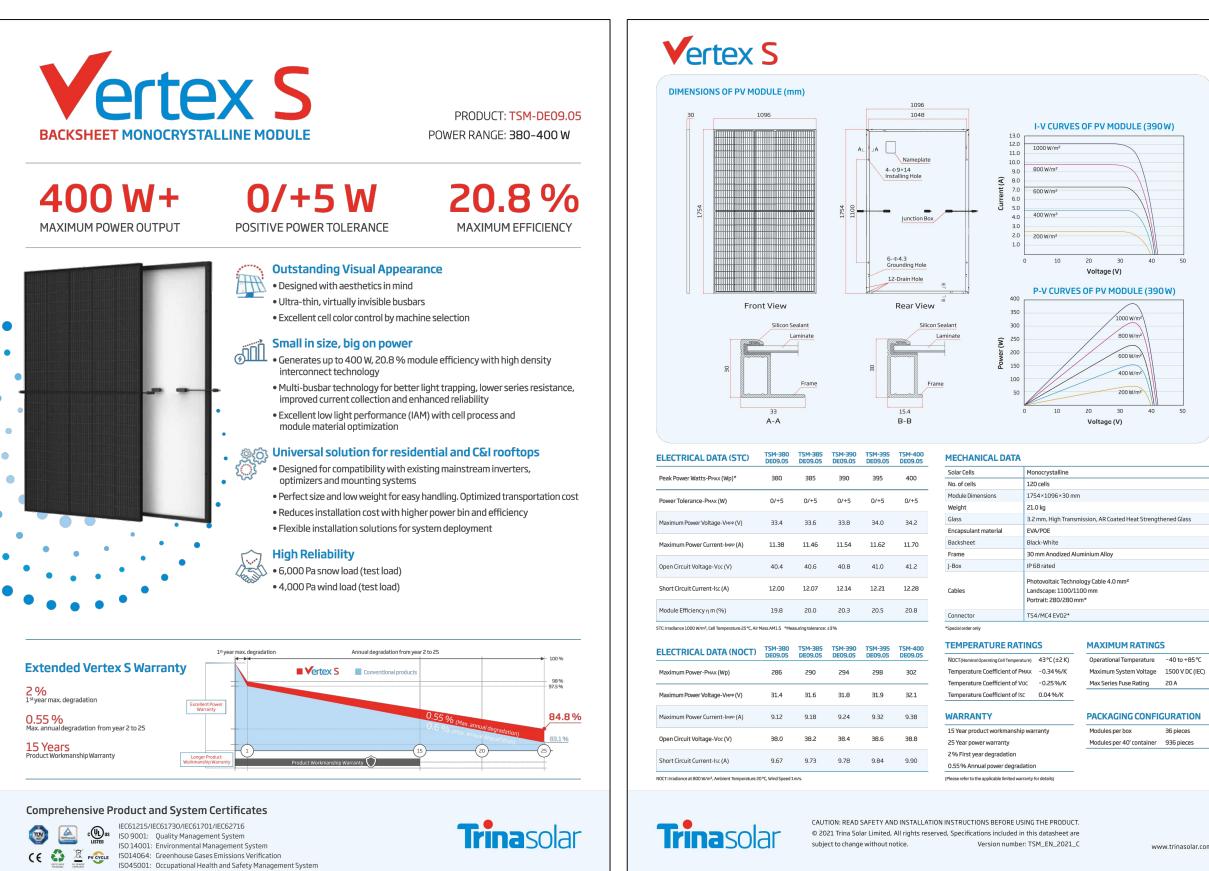
NOTE: ALL SIGNAGE CANNOT BE HAND WRITTEN NEC 110.21



POWER TO THIS BUILDING IS ALSO SUPPLIED FROM THE FOLLOWING SOURCES WITH DISCONNECTS LOCAT AS SHOWN



DS SHALL BE RED		P	
ENERS	Sustaina	ble Energy & Lighting So Your future is brighter with us!	lutions
	SYSTEM	INFORM	ATION
	DC SYSTEM SIZE AC SYSTEM SIZE		
)	MODULES: (35) TRINA SOLAF INVERTER: (1) SOLAREDGE SI		.05 390W
ED	OPTIMIZER (35) SOLAREDGE I	P405	
	ENGINE	ER OF REG	CORD
TERIOR)			
R) TERIOR) IOR)			
	CUSTOM	ER INFOR	MATION
	NAME & ADDRESS TERRY EVANS 875 TROY PARKEF DUNN, NC 28334 35°34'37.6"N 78°5	R LN,	
	AHJ: HARNETT COU	INTY	
	UTILITY: DUKE ENE	RGY PROGRESS	
	WARI	NING PLACA	RDS
	PROJECT NUMBER:		
	DESIGNER/CHECKE SOLAROFIX	D BY:	
	SCALE:AS NOTED	PAPER SI	ZE:17"x11"
	DATE:11/19/22	REV:B	PV-5.0





Sustainable Energy & Lighting Solutions Your future is brighter with us

SYSTEM INFORMATION

DC SYSTEM SIZE AC SYSTEM SIZE : 13650W : 10000W

MODULES: (35) TRINA SOLAR TSM-390 DE09.05 390W INVERTER: (1) SOLAREDGE SE10000H-US OPTIMIZER (35) SOLAREDGE P405

ENGINEER OF RECORD

CUSTOMER INFORMATION

NAME & ADDRESS:

TERRY EVANS 875 TROY PARKER LN, DUNN, NC 28334 35°34'37.6"N 78°59'62.2"W

AHJ: HARNETT COUNTY

UTILITY: DUKE ENERGY PROGRESS

MODULE SPECSHEET

PROJECT NUMBER:

DESIGNER/CHECKED BY:

SOLAROFIX

SCALE: AS NOTED DATE:11/19/22

REV:B

PAPER SIZE:17"x11"

PV-6.0

36 pieces

www.trinasolar.com

Single Phase Inverter with HD-Wave Technology

for North America

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



Optimized installation with HD-Wave technology

- Specifically designed to work with power optimizers
- Record-breaking 99% weighted efficiency
- Quick and easy inverter commissioning directly from a smartphone using the SolarEdge 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

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- / UL1741 SA certified, for CPUC Rule 21 grid compliance
- Small, lightweight, and easy to install both outdoors or indoors

12-25

- Built-in module-level monitoring
- Optional: Faster installations with built-in consumption metering (1% accuracy) and production revenue grade metering (0.5% accuracy, ANSI C12.20)



NVERTERS

/ Single Phase Inverter with HD-Wave Techn

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)	~	~	~	~	~	~
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		3	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			g	9.2	
CEC Weighted Efficiency				99		
Nighttime Power Consumption				< 2.5		

(1) For other regional settings please contact SolarEdge support
(2) A higher current source may be used; the inverter will limit its input current to the values stated

			ble Energy & Lighting So Your future is brighter with us				
nolog		DC SYSTEM SIZE AC SYSTEM SIZE MODULES: (35) TRINA SOLAF INVERTER: (1) SOLAREDGE SI OPTIMIZER	: 10000\ R TSM-390 DE09 E10000H-US	N			
11400 @ 240V 10000 @ 208V 11400 @ 240V 10000 @ 208V ✓ ✓ 47.5 48.5	VA VA Vac Vac Hz A A	(35) SOLAREDGE I	ER OF REG	CORD			
17650 15500 30.5 27	W W Vdc Vdc Adc Adc Adc Adc	CUSTOM	ER INFOR	MATION			
99 @ 240V 98.5 @ 208V	% W	NAME & ADDRESS TERRY EVANS 875 TROY PARKEF DUNN, NC 28334 35°34'37.6"N 78°5	: R LN, 59'62.2"W				
		AHJ: HARNETT COU UTILITY: DUKE ENE INVER		HEET			
		PROJECT NUMBER: DESIGNER/CHECKE SOLAROFIX	DESIGNER/CHECKED BY:				
		SCALE:AS NOTED	Paper SI	ZE:17"x11"			
		DATE:11/19/22	REV:B	PV-6.1			

Power Optimizer

For North America P370 / P400 / P401 / P485 / P505



POWER OPTIMIZ フ

PV power optimization at the module-level

- Specifically designed to work with SolarEdge inverters
- I Up to 25% more energy
- Superior efficiency (99.5%)
- / Mitigates all types of module mismatch losses, from manufacturing tolerance to partial shading
- Flexible system design for maximum space utilization

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- Fast installation with a single bolt
- I Next generation maintenance with modulelevel monitoring
- Meets NEC requirements for arc fault protection (AFCI) and Photovoltaic Rapid Shutdown System (PVRSS)
- Module-level voltage shutdown for installer and firefighter safety



/ Power Optimizer For North America

P370 / P400 / P401 / P485 / P505

Optimizer model (typical module compatibility)	P370 (for higher-power 60 and 72-cell modules)		P401 (for high power 60 and 72 cell modules)	P485 (for high-voltage modules)	P505 (for higher current modules))	
INPUT							
Rated Input DC Power ⁽¹⁾	370		400	485	505	W	
Absolute Maximum Input Voltage (Voc at lowest temperature)	60	80	60	125(2)	83 ⁽²⁾	Vdc	
MPPT Operating Range	8 - 60	8 - 80	8-60	12.5 - 105	12.5 - 83	Vdc	
Maximum Short Circuit Current (Isc)	11	10.1	11.75	11	14	Adc	
Maximum DC Input Current	13.75	12.5	14.65	12.5	17.5		
Maximum Efficiency			99.5			%	
Weighted Efficiency			98.8			%	
Overvoltage Category			11				
OUTPUT DURING OPERATION	N (POWER OPTIMIZEI	R CONNECTED	TO OPERATING SOI	AREDGE INVERTE	ER)		
Maximum Output Current			15			Adc	
Maximum Output Voltage 60 80						Vdc	
OUTPUT DURING STANDBY (F	POWER OPTIMIZER DI	SCONNECTED	FROM SOLAREDGE IN	VERTER OR SOLA	REDGE INVERTER	OFF)	
Safety Output Voltage per Power Optimizer			1 ± 0.1			Vdc	
STANDARD COMPLIANCE							
ELIC.	FCC Part 15 Class B, IEC61000-6-2, IEC61000-6-3						
EMC		FCC Part	15 Class B, IEC61000-6-2, IEC6	1000-6-3			
			15 Class B, IEC61000-6-2, IEC6 9-1 (class II safety), UL1741, NE0				
EMC Safety Material							
Safety			9-1 (class II safety), UL1741, NE				
Safety Material RoHS	NS		9-1 (class II safety), UL1741, NE0 UL94 V-0 , UV Resistant				
Safety Material	NS		9-1 (class II safety), UL1741, NE0 UL94 V-0 , UV Resistant			Vdc	
Safety Material RoHS INSTALLATION SPECIFICATIO	NS	IEC6210	9-1 (class II safety), UL1741, NE0 UL94 V-0 , UV Resistant Yes	C/PVRSS		Vdc	
Safety Material RoHS INSTALLATION SPECIFICATIO Maximum Allowed System Voltage Compatible inverters	NS 129 x 153 x 27.5 / 5.1 x 6 x 1.1	IEC6210	9-1 (class II safety), UL1741, NE0 UL94 V-0 , UV Resistant Yes 1000	C/PVRSS	129 x 162 x 59 / 5.1 x 6.4 x 2.3		
Safety Material RoHS INSTALLATION SPECIFICATIO Maximum Allowed System Voltage Compatible inverters Dimensions (W x L x H)	129 x 153 x 27.5 /	IEC6210 All SolarEdg 129 x 153 x 33.5 /	9-1 (class II safety), UL1741, NEG UL94 V-0 , UV Resistant Yes 1000 ge Single Phase and Three Pha 129 x 153 x 29.5 /	C/PVRSS se inverters 129 x 159 x 49.5 /		mm / in	
Safety Material RoHS INSTALLATION SPECIFICATIO Maximum Allowed System Voltage Compatible inverters Dimensions (W x L x H) Weight (including cables)	129 x 153 x 27.5 / 5.1 x 6 x 1.1	IEC6210 All SolarEdg 129 x 153 x 33.5 / 5.1 x 6 x 1.3	9-1 (class II safety), UL1741, NEU UL94 V-0 , UV Resistant Yes 1000 ge Single Phase and Three Pha 129 x 153 x 29.5 / 5.1 x 6 x 1.16	C/PVRSS se inverters 129 x 159 x 49.5 / 5.1 x 6.3 x 1.9	5.1 x 6.4 x 2.3	mm	
Safety Material RoHS INSTALLATION SPECIFICATIO Maximum Allowed System Voltage Compatible inverters Dimensions (W x L x H) Weight (including cables) Input Connector	129 x 153 x 27.5 / 5.1 x 6 x 1.1	All SolarEdg 129 x 153 x 33.5 / 5.1 x 6 x 1.3 750 / 1.7	9-1 (class II safety), UL1741, NEU UL94 V-0 , UV Resistant Yes 1000 ge Single Phase and Three Pha 129 x 153 x 29.5 / 5.1 x 6 x 1.16	c/PVRSS se inverters 129 x 159 x 49.5 / 5.1 x 6.3 x 1.9 845 / 1.9	5.1 x 6.4 x 2.3 1064 / 2.3	mm /in gr/ll	
Safety Material ROHS INSTALLATION SPECIFICATIO Maximum Allowed System Voltage	129 x 153 x 27.5 / 5.1 x 6 x 1.1	All SolarEdg 129 x 153 x 33.5 / 5.1 x 6 x 1.3 750 / 1.7	9-1 (class II safety), UL1741, NEU UL94 V-0 , UV Resistant Yes 1000 ge Single Phase and Three Pha 129 x 153 x 29.5 / 5.1 x 6 x 1.16 655 / 1.5	c/PVRSS se inverters 129 x 159 x 49.5 / 5.1 x 6.3 x 1.9 845 / 1.9	5.1 x 6.4 x 2.3 1064 / 2.3	mm / in	
Safety Material RoHS INSTALLATION SPECIFICATIO Maximum Allowed System Voltage Compatible inverters Dimensions (W x L x H) Weight (including cables) Input Connector Input Wire Length	129 x 153 x 27.5 / 5.1 x 6 x 1.1	All SolarEdg 129 x 153 x 33.5 / 5.1 x 6 x 1.3 750 / 1.7	9-1 (class II safety), UL1741, NEC UL94 V-0 , UV Resistant Yes 1000 9 Single Phase and Three Pha 129 x 153 x 29.5 / 5.1 x 6 x 1.16 655 / 1.5 0.16 / 0.5	c/PVRSS se inverters 129 x 159 x 49.5 / 5.1 x 6.3 x 1.9 845 / 1.9	5.1 x 6.4 x 2.3 1064 / 2.3	mm /in gr/ll m/f	
Safety Material RoHS INSTALLATION SPECIFICATIO Maximum Allowed System Voltage Compatible inverters Dimensions (W x L x H) Weight (including cables) Input Connector Input Wire Length Output Wire Type / Connector Output Wire Length	129 x 153 x 27.5 / 5.1 x 6 x 1.1	All SolarEdg 129 x 153 x 33.5 / 5.1 x 6 x 1.3 750 / 1.7	9-1 (class II safety), UL1741, NEC UL94 V-0 , UV Resistant Yes 1000 e Single Phase and Three Pha 129 x 153 x 29.5 / 5.1 x 6 x 1.16 655 / 1.5 0.16 / 0.5 Double Insulated / MC4	c/PVRSS se inverters 129 x 159 x 49.5 / 5.1 x 6.3 x 1.9 845 / 1.9	5.1 x 6.4 x 2.3 1064 / 2.3	mm /in gr/ll	
Safety Material RoHS INSTALLATION SPECIFICATIO Maximum Allowed System Voltage Compatible inverters Dimensions (W x L x H) Weight (including cables) Input Connector Input Wire Length Output Wire Type / Connector	129 x 153 x 27.5 / 5.1 x 6 x 1.1	All SolarEdg 129 x 153 x 33.5 / 5.1 x 6 x 1.3 750 / 1.7	9-1 (class II safety), UL1741, NE0 UL94 V-0 , UV Resistant Yes 1000 Pe Single Phase and Three Pha 129 x 153 x 29.5 / 5.1 x 6 x 1.16 655 / 1.5 0.16 / 0.5 Double Insulated / MC4 1.2 / 3.9	c/PVRSS se inverters 129 x 159 x 49.5 / 5.1 x 6.3 x 1.9 845 / 1.9	5.1 x 6.4 x 2.3 1064 / 2.3	mm /in gr/ll m/f	

PV System Design Using a SolarEdge Inverter ⁽⁶⁾⁽⁷⁾		Single Phase HD-Wave	Single phase	Three Phase for 208V grid	Three Phase for 277/480V grid	
Minimum String Length	P370, P400, P401	8		10	18	
(Power Optimizers)				8	14	
Maximum String Length (Powe	r Optimizers)	25	25		50	
Maximum Power per String		5700 [®] (6000 with SE7600-US - SE11400-US) 5250 [®]		6000 ⁽⁹⁾	12750(10)	W
Parallel Strings of Different Leng	gths or Orientations		Yes			

(6) For detailed string sizing information refer to: http://www.solaredge.com/sites/default/files/string_sizing_na.pdf

(b) For detailed string sizing information reter to http://www.solaicouge.com/sizes/dollawing_sizing_si

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Sustainable Energy & Lighting Solutions Your future is brighter with u

SYSTEM INFORMATION

DC SYSTEM SIZE AC SYSTEM SIZE : 13650W : 10000W

MODULES: (35) TRINA SOLAR TSM-390 DE09.05 390W INVERTER: (1) SOLAREDGE SE10000H-US OPTIMIZER (35) SOLAREDGE P405

ENGINEER OF RECORD

CUSTOMER INFORMATION

NAME & ADDRESS:

TERRY EVANS 875 TROY PARKER LN, DUNN, NC 28334 35°34'37.6"N 78°59'62.2"W

AHJ: HARNETT COUNTY

UTILITY: DUKE ENERGY PROGRESS

OPTIMIZER SPECSHEET

PROJECT NUMBER:

DESIGNER/CHECKED BY:

SOLAROFIX

SCALE: AS NOTED PAPER SIZE:17"x11" DATE:11/19/22 REV:B

PV-6.2



RT-MINI II

A Self-flashing PV Mount Featuring Roof Tech's AlphaSeal™ Technology

RT-MINI II Flexible Flashing Certified by the International Code Council (ICC)

Components Dimensions in (mm) RT2-00-MINIBK2 MINI II base : 20 ea. Screw : 40 ea. Extra RT-Butyl : 4 ea. **Optional Items:** 5 x 60mm Mounting Screw (RT2-04-SD5-60) : 100 ea./Bag 5/16 X 25MM Flange Bolt & Nut (RT2-04-FBN25) : 100 ea./Bag 3.54 inch (90mm) .60 inch (15.4mm) RT-Butyl (RT2-04-MNBUTYL) : 10 ea./Box **Deck Installation Rafter Installation Offset Rafter Installation RT-MINI II is suitable for all** systems with a conventional L-Foot. Less Aluminum 4" x 1" Carriage Bolt EMT Accessorv **More Efficient Design** RT-Butyl is Roof Tech's flexible flashing used in one million **Offset Rafter Attachment Options** residential PV systems for the last 27 years. It is the first PV mounting system with Flexible Flashing certified by the ICC. Engineered to Additional Mounting Options withstand wind speeds up to 180 mph and ground snow up to 90 psf. Engineered to ASTM D 1761 (Standard Test Methods for Mechanical Fasteners in Wood) Metal, EPDM, TPO, & Asphalt Roofs ICC ESR-3575 ASTM2140 Testing RT Serrated Hex Flange Bolt/Nut: 5/16-18 x 1" Metal Flashing Retrofit **Flexible Flashing ICC ESR 3575** TAS 100 A on metal and asphalt roof. Installation Manual P.E. Stamped Letters available at www.roof-tech.us/support Shedding Water? 100% Waterproof Roof Tech Inc. www.roof-tech.us info@roof-tech.us 10620 Treena Street, Suite 230, San Diego, CA 92131 858.935.6064 www.roof-tech.us info@roof-tech.us



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AHJ: HARNETT COUNTY

UTILITY: DUKE ENERGY PROGRESS

RACKING SPECSHEET

PROJECT NUMBER:

DESIGNER/CHECKED BY:

SOLAROFIX

SCALE: AS NOTED DATE:11/19/22

REV:B

PAPER SIZE:17"x11"

PV-6.3

The Right Way!

CorruBracket[™]

CorruBracket[™] can be used to mount almost anything to corrugated metal roofing and is compatible with 7/8" and 3/4" corrugated roofing. No messy sealants to apply! No chance for leaks! The CorruBracket comes with factoryapplied butyl sealant already in the base, and the S-5![®] patented reservoir conceals the sealant, preventing UV degredation.

Installation is simple! CorruBracket is mounted directly into the supporting structure of the roof, i.e. roof decking, wood or steel purlins, or trusses. No surface preparation is necessary; simply wipe away excess oils and debris, peel the release paper, align, and apply. Secure through the pre-punched holes using the appropriate screws for the supporting structure.

CorruBracket is so strong, it will even support heavy-duty applications like snow retention. For corrugated profiles, the CorruBracket is the perfect match for our ColorGard[®] snow retention system. CorruBracket is economical and facilitates quick and easy installation.

CorruBracket





the right way to attach almost anything to 7/8" and 3/4" corrugated roofing, including PV via DirectAttached[™] or rail methods.

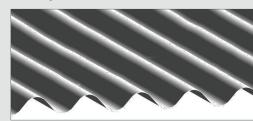
The Right Way!

CorruBracket™ is extremely versatile. It can be used for almost any attachment need on 7/8" and 3/4" corrugated metal roofing. No messy sealants to apply. The factory-applied butyl sealant waterproofs and makes installation a snap!

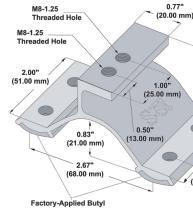
Each **CorruBracket[™]** comes with factory-applied butyl sealant in the base. CorruBracket is compatible with most common metal roofing materials. For design assistance, ask your distributor, or use our web-based calculator at www.S-5.com for job-specific system engineering and design of your next snow retention project. Also, please visit our website for more information including CAD details, metallurgical compatibilities and specifications.

The CorruBracket has been tested for load-to-failure results on wood decking, and metal and wood purlins. The independent lab test data found at www.S-5.com can be used for load-critical designs and applications. S-5!® holding strength is unmatched in the industry.

Example Profile



CorruBracket[™]



Please note: All measurements are rounded to the second decimal place. Contact your distributor for information about hardware requirements.

Example Applications

S-5-PV Kit (DirectAttached[™] or Rail)



ColorGard[®]



S-5!® Warning! Please use this product responsibly! Products are protected by multiple U.S. and foreign patents. For published data regarding holding strength, bolt torque, patents and trademarks visit the S-5! website at www.S-5.com. Copyright 2013, Metal Roof Innovations, Ltd. S-5! products are patent protected S-5! aggressively protects its patents, trademarks, and copyrights. Version 1205'

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AHJ: HARNETT COUNTY

UTILITY: DUKE ENERGY PROGRESS

RACKING SPECSHEET

PROJECT NUMBER:

DESIGNER/CHECKED BY:

SOLAROFIX

SCALE: AS NOTED

DATE:11/19/22

PAPER SIZE:17"x11"

REV:B

PV-6.4

(43.00 mm)

1.00"

(25.00 mm)

0.50"

(13.00 mm)

0.50"

(13.00 mm)