

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.

5.ALL GROUND WIRING CONNECTED TO THE MAIN SERVICE GROUNDING IN MAIN SERVICE PANEL/ SERVICE EQUIPMENT.

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 REQUIRE 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

INSTALLATION NOTES

1.STRUCTURAL ROOF MEMBER LOCATIONS ARE ESTIMATED AND SHOULD BE LOCATED AND VERIFIED BY THE CONTRACTOR WHEN LAG BOLT PENETRATION OR MECHANICAL ATTACHMENT TO THE STRUCTURE IS REQUIRED.

2.ROOFTOP PENETRATIONS FOR SOLAR RACKING WILL BE COMPLETED AND SEALED WITH APPROVED SEALANT PER CODE BY A LICENSED CONTRACTOR.

3.LAGS MUST HAVE A MINIMUM 2.5" THREAD EMBEDMENT INTO THE STRUCTURAL MEMBER.

4.ALL PV RACKING ATTACHMENTS SHALL BE STAGGERED BY ROW BETWEEN THE ROOF FRAMING MEMBERS AS NECESSARY.

5. ROOF MOUNTED STANDARD RAIL REQUIRES ONE THERMAL EXPANSION GAP FOR EVERY RUN OF RAIL GREATER THAN 40'.

6.ALL CONDUCTORS AND CONDUITS ON THE ROOF SHALL BE MINIMUM 7/8" ABOVE THE ROOF SURFACE (INCLUDING CABLES UNDERNEATH MODULES AND RACKING).

7. THE PV INSTALLATION SHALL NOT OBSTRUCT ANY PLUMBING. MECHANICAL OR BUILDING ROOF VENTS.

ROOF ACCESS PATHWAYS AND SETBACKS:

1204.2.1 SOLAR PHOTOVOLTAIC SYSTEMS FOR GROUP R-3BUILDINGS.SOLAR PHOTOVOLTAIC SYSTEMS FOR GROUP R-3 BUILDINGS SHALL COMPLY WITH SECTIONS 1204.2.1.1 THROUGH 1204.2.1.3. EXCEPTIONS:

1.THESE REQUIREMENTS SHALL NOT APPLY TO STRUCTURES DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE INTERNATIONAL RESIDENTIAL CODE.

2.THESE REQUIREMENTS SHALL NOT APPLY TO ROOFS WITH SLOPES OF 2 UNITS VERTICAL IN 12 UNITS HORIZONTAL OR LESS.

1204.2.1.1 PATHWAYS TO RIDGE. NOT FEWER THAN TWO 36-INCH-WIDE (914 MM) PATHWAYS ON SEPARATE ROOF PLANES, FROM LOWEST ROOF EDGE TO RIDGE, SHALL BE PROVIDED ON ALL BUILDINGS. NOT FEWER THAN ONE PATHWAY SHALL BE PROVIDED ON THE STREET OR DRIVEWAY SIDE OF THE ROOF. FOR EACH ROOF PLANE WITH A PHOTOVOLTAIC ARRAY, NOT FEWER THAN ONE 36-INCH-WIDE (914 MM) PATHWAY FROM LOWEST ROOF EDGE TO RIDGE SHALL BE PROVIDED ON THE SAME ROOF PLANE AS THE PHOTOVOLTAIC ARRAY. ON AN ADJACENT ROOF PLANE OR STRADDLING THE SAME AND ADJACENT ROOF PLANES

1204.2.1.2 SETBACKS AT RIDGE.FOR PHOTOVOLTAIC ARRAYS OCCUPYING 33 PERCENT OR LESS OF THE PLAN VIEW TOTAL ROOF AREA,

A SETBACK OF NOT LESS THAN 18 INCHES (457 MM)WIDE IS REQUIRED ON BOTH SIDES OF A HORIZONTAL RIDGE. FOR PHOTOVOLTAIC ARRAYS OCCUPYING MORE THAN 33 PERCENT OF THE PLAN VIEW TOTAL ROOF AREA. A SETBACK OF NOT LESS THAN 36 INCHES (457 MM) WIDE IS REQUIRED ON BOTH SIDES OF A HORIZONTAL RIDGE.

1204.2.2 EMERGENCY ESCAPE AND RESCUE OPENINGS. PANELS AND MODULES INSTALLED ON GROUP R-3 BUILDINGS SHALL NOT BE PLACED ON THE PORTION OF A ROOF THAT IS BELOW AN EMERGENCY ESCAPE AND RESCUE OPENING. A PATHWAY OF NOT LESS THAN 36 INCHES (914 MM) WIDE SHALL BE PROVIDED TO THE EMERGENCY ESCAPE AND RESCUE OPENING.

1204.2.1.3 ALTERNATIVE SETBACKS AT RIDGE. WHERE AN AUTOMATIC SPRINKLER SYSTEM IS INSTALLED WITHIN THE DWELLING IN ACCORDANCE WITH SECTION 903.3.1.3. SETBACKS AT THE RIDGE SHALL CONFORM TO ONE OF THE FOLLOWING:

1.FOR PHOTOVOLTAIC ARRAYS OCCUPYING 66 PERCENT OR LESS OF THE PLAN VIEW TOTAL ROOF AREA, A SETBACK OF NOT LESS THAN 18 INCHES (457 MM) WIDE IS REQUIRED ON BOTH SIDES OF A HORIZONTAL RIDGE.

2.FOR PHOTOVOLTAIC ARRAYS OCCUPYING MORE THAN 66 PERCENT OF THE PLAN VIEW TOTAL ROOF AREA, A SETBACK OF NOT LESS THAN 36 INCHES (914 MM) WIDE IS REQUIRED ON BOTH SIDES OF A HORIZONTAL RIDGE

ELECTRICAL NOTES

1.CONDUCTORS EXPOSED TO SUNLIGHT SHALL BE LISTED AS SUNLIGHT RESISTANT PER NEC 310.10(D).

2.CONDUCTORS EXPOSED TO WET LOCATIONS SHALL BE SUITABLE FOR USE IN WET LOCATIONS PER NEC 310.10(C).

3.MAXIMUM DC/AC VOLTAGE DROP SHALL BE NO MORE THAN 2%.

4.ALL CONDUCTORS SHALL BE IN CONDUIT UNLESS OTHERWISE NOTED.

5.BREAKER/FUSE SIZES CONFORMS TO NEC 240.6 CODE SECTION.

6.AC GROUNDING ELECTRODE CONDUCTOR SIZED PER NEC 250.66.

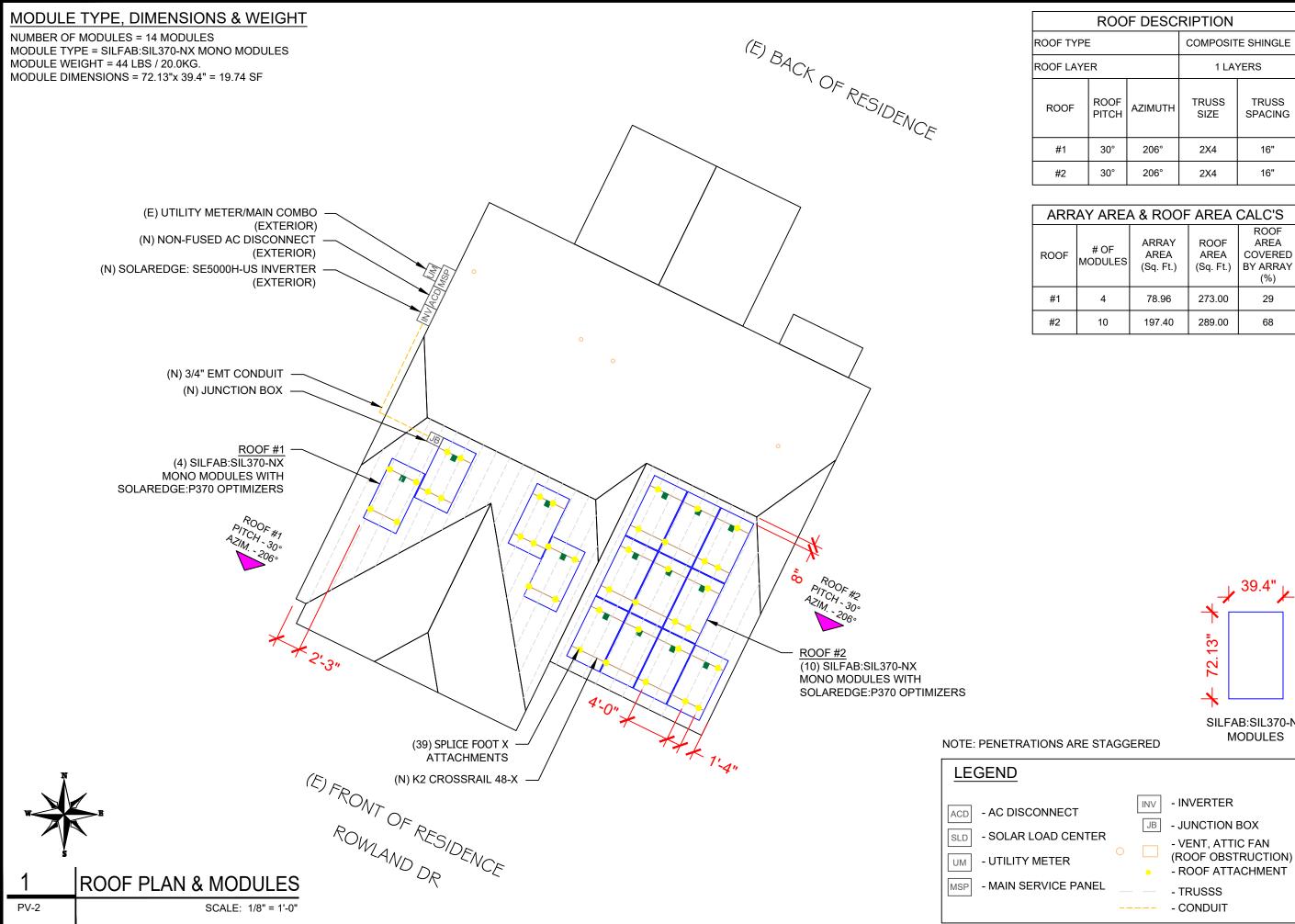
7.AMBIENT TEMPERATURE CORRECTION FACTOR IS BASED ON NEC 690.31(A).

8.AMBIENT TEMPERATURE ADJUSTMENT FACTOR IS BASED ON NEC 310.15(B)(2).

9.MAX. SYSTEM VOLTAGE CORRECTION IS PER NEC 690.7.

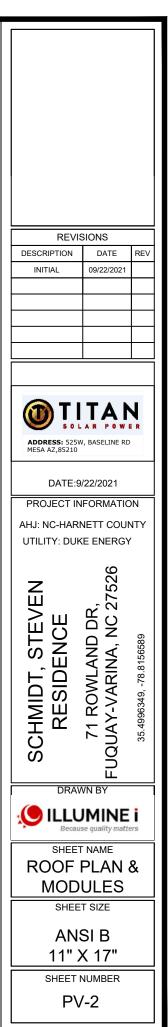
10.CONDUCTORS ARE SIZED PER WIRE AMPACITY TABLE NEC 310.15(B)(16).

REV	ISIONS	
DESCRIPTION	DATE	REV
INITIAL	09/22/2021	
		$\left - \right $
		$\left - \right $
ADDRESS: 525 MESA AZ,85210 DATE:	9/22/2021 NFORMATIC	DN
SCHMIDT, STEVEN RESIDENCE	71 ROWLAND DR, FUQUAY-VARINA, NC 27526	35.4996349, -78.8156589
	JMINE	
	use quality matt	ers
SHEET NAME NOTES		
SHEE	ET SIZE	
ANSI B 11" X 17" SHEET NUMBER		
PV-	1.1	

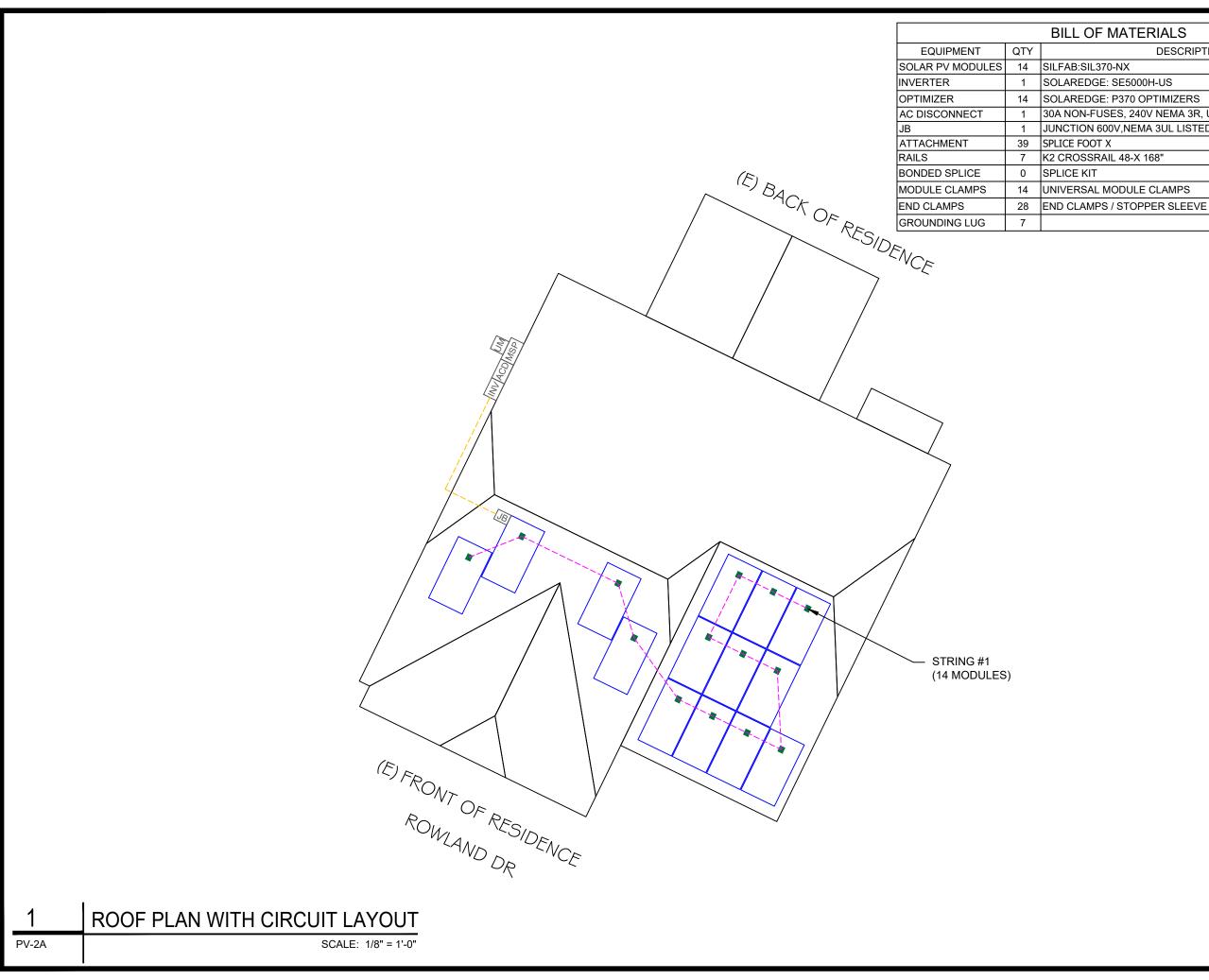


	ROOF DESCRIPTION				
PE	PE COMPOSITE SHINGL		E SHINGLE		
YE	R		1 LAYERS		
	ROOF PITCH	AZIMUTH	TRUSS SIZE	TRUSS SPACING	
	30°	206°	2X4	16"	
	30°	206°	2X4	16"	

AY AREA & ROOF AREA CALC'S				
# OF MODULES	ARRAY AREA (Sq. Ft.)	ROOF AREA (Sq. Ft.)	ROOF AREA COVERED BY ARRAY (%)	
4	78.96	273.00	29	
10	197.40	289.00	68	





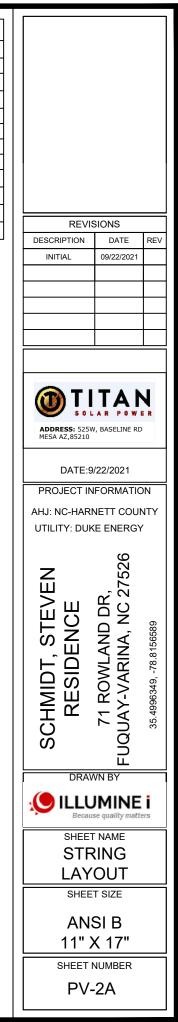


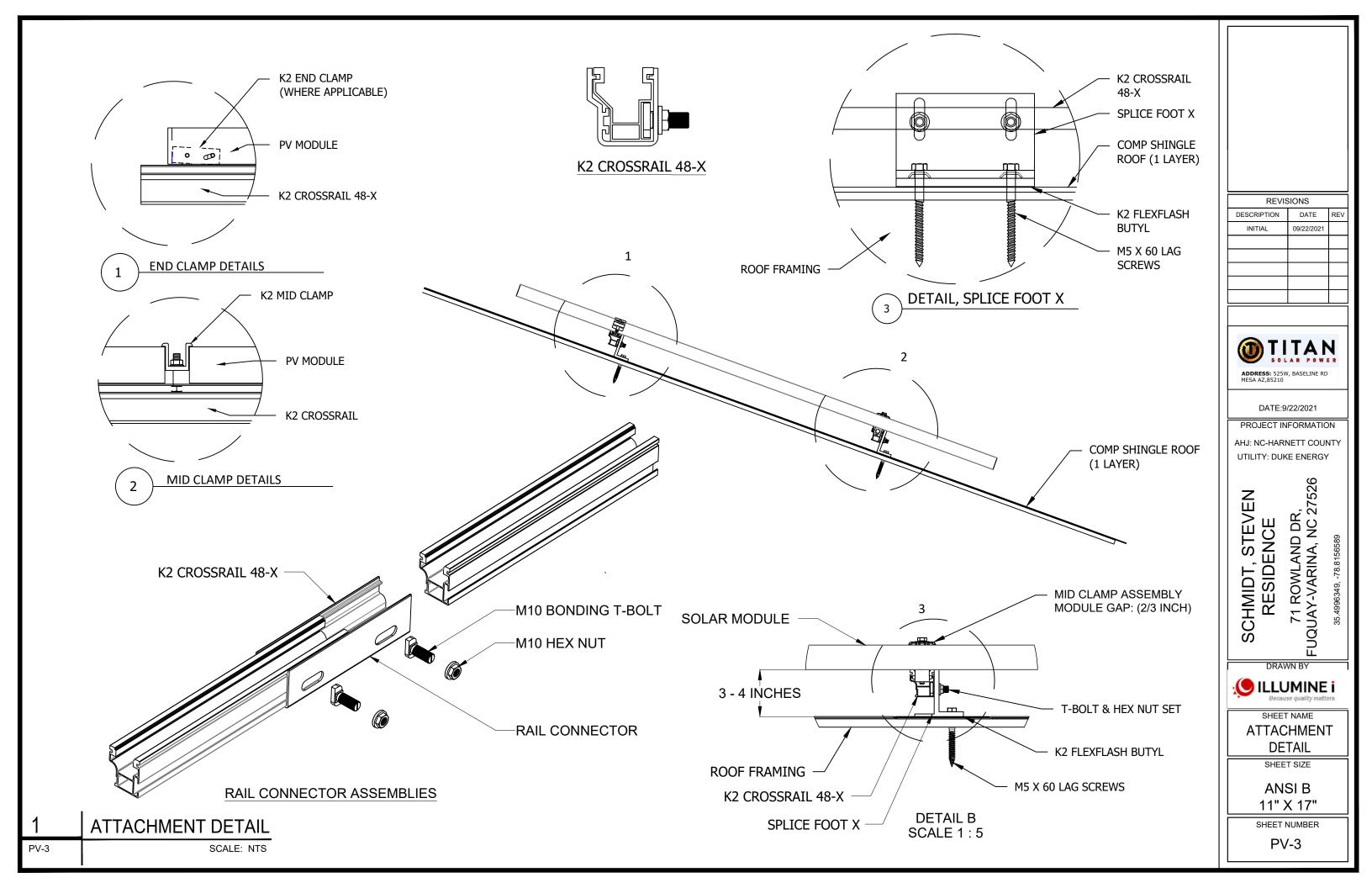
BILL OF MATERIALS

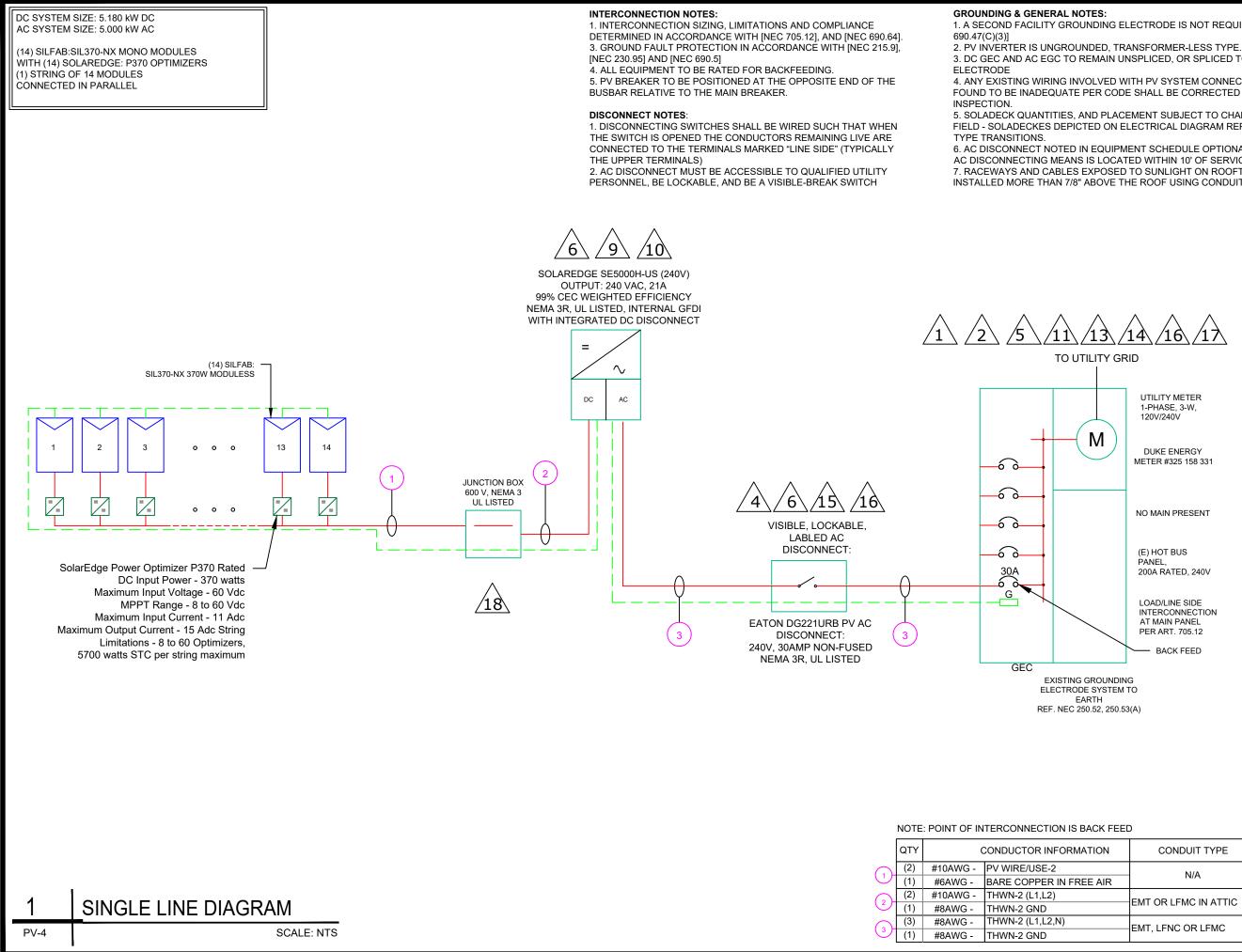
DESCRIPTION

SOLAREDGE: P370 OPTIMIZERS

30A NON-FUSES, 240V NEMA 3R, UL LISTED, JUNCTION 600V, NEMA 3UL LISTED







1. A SECOND FACILITY GROUNDING ELECTRODE IS NOT REQUIRED PER [NEC

3. DC GEC AND AC EGC TO REMAIN UNSPLICED, OR SPLICED TO EXISTING

4. ANY EXISTING WIRING INVOLVED WITH PV SYSTEM CONNECTION THAT IS FOUND TO BE INADEQUATE PER CODE SHALL BE CORRECTED PRIOR TO FINAL

5. SOLADECK QUANTITIES, AND PLACEMENT SUBJECT TO CHANGE IN THE FIELD - SOLADECKES DEPICTED ON ELECTRICAL DIAGRAM REPRESENT WIRE

6. AC DISCONNECT NOTED IN EQUIPMENT SCHEDULE OPTIONAL IF OTHER AC DISCONNECTING MEANS IS LOCATED WITHIN 10' OF SERVICE DISCONNECT 7. RACEWAYS AND CABLES EXPOSED TO SUNLIGHT ON ROOFTOPS SHOULD BE INSTALLED MORE THAN 7/8" ABOVE THE ROOF USING CONDUIT SUPPORTS.

UTILITY METER 1-PHASE, 3-W, 120V/240V

DUKE ENERGY METER #325 158 331

NO MAIN PRESENT

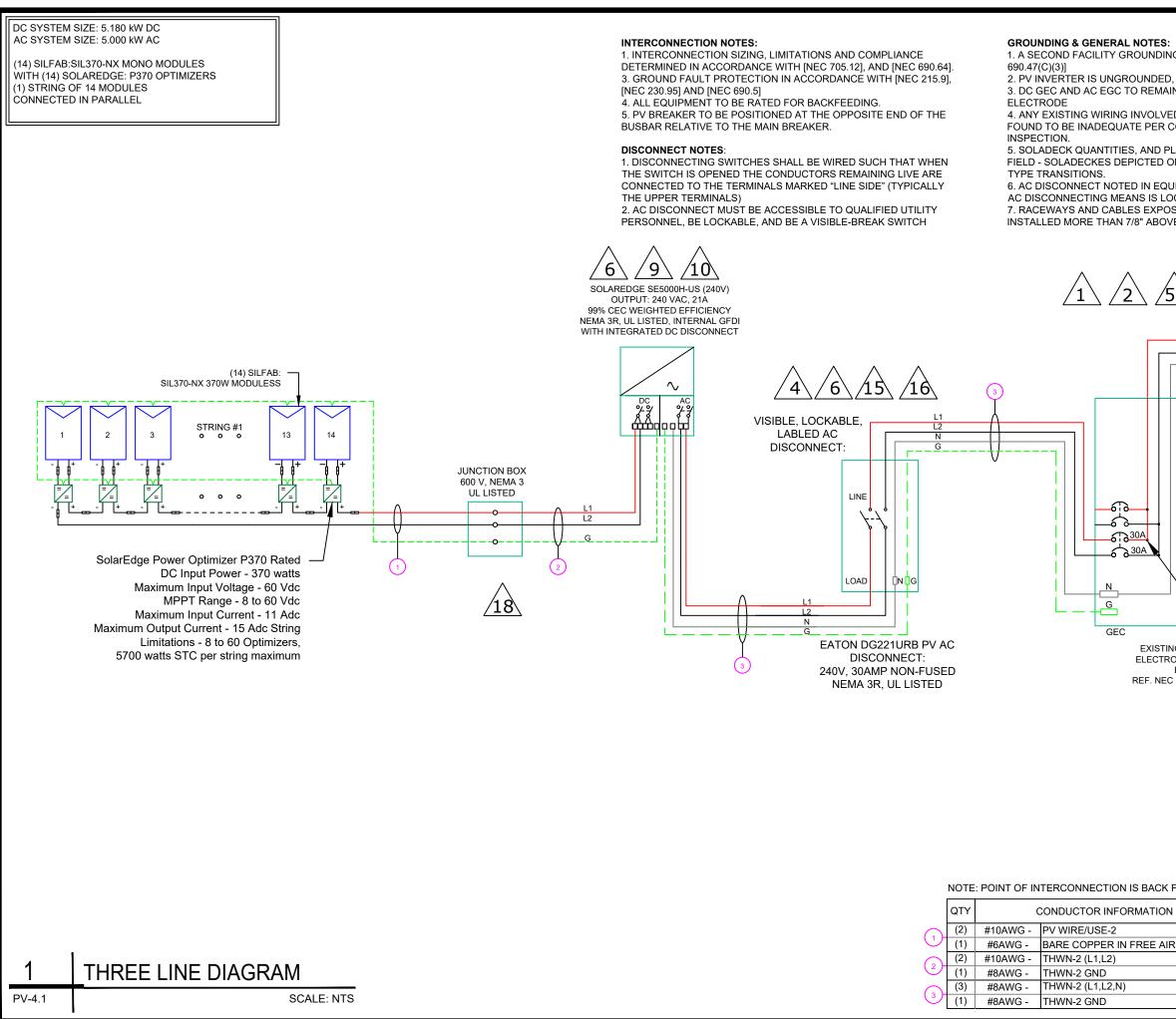
(E) HOT BUS PANFI 200A RATED, 240V

LOAD/LINE SIDE INTERCONNECTION AT MAIN PANEL PER ART, 705.12

- BACK FEED

N	CONDUIT TYPE	CONDUIT SIZE
IR	N/A	N/A
	EMT OR LFMC IN ATTIC	3/4"
	EMT, LFNC OR LFMC	3/4"

REVIS	SIONS	
DESCRIPTION	DATE	REV
INITIAL	09/22/2021	
DATE:9/22/2021 PROJECT INFORMATION AHJ: NC-HARNETT COUNTY UTILITY: DUKE ENERGY		
SCHMIDT, STEVEN RESIDENCE	71 ROWLAND DR, FUQUAY-VARINA, NC 27526	35.4996349, -78.8156589
	VN BY	
Becau	Se quality matter	ers
SHEET NAME SINGLE LINE DIAGRAM		
SHEET SIZE ANSI B 11" X 17" SHEET NUMBER		
PV-4		



			_			
D, TRA AIN UN /ED WI CODE PLACE ON EL QUIPMI OCATI	ECTRODE IS NOT REQUIRE ANSFORMER-LESS TYPE. ISPLICED, OR SPLICED TO I ITH PV SYSTEM CONNECTIO SHALL BE CORRECTED PF EMENT SUBJECT TO CHANG LECTRICAL DIAGRAM REPR ENT SCHEDULE OPTIONAL ED WITHIN 10' OF SERVICE TO SUNLIGHT ON ROOFTO IE ROOF USING CONDUIT S	EXISTING ON THAT IS RIOR TO FINAL SE IN THE ESENT WIRE IF OTHER DISCONNECT PS SHOULD BE		REV DESCRIPTION INITIAL	ISIONS DATE 09/22/2021	REV
5						
	TO UTILITY GRID					
		JKE ENERGY ER #325 158 331				<u> </u>
	UTILITY METER 1-PHASE, 3-W, 120V/240V			ADDRESS: 529 MESA AZ,85210	W, BASELINE RC	
				DATE:	9/22/2021	
	NO MAIN PRESENT (E) HOT BUS PANEL, 200A RATED, 240V			PROJECT I AHJ: NC-HAF UTILITY: DU		NTY
RODE S	LOAD/LINE SIDE INTERCONNECTION AT MAIN PANEL PER ART. 705.12 BACK FEED ROUNDING SYSTEM TO TH 52, 250.53(A)			SCHMIDT, STEVEN RESIDENCE	Щ	35.4996349, -78.8156589
				🧶 ILLU	WN BY JMINE use quality matte	-
< FEED)			THRE	EE LINE GRAM	
	CONDUIT TYPE	CONDUIT SIZE		SHEI	ET SIZE	
JR	N/A	N/A			ISI B X 17"	
	EMT OR LFMC IN ATTIC	3/4"	[SHEET	NUMBER	
		3///"		PV-	4.1	

SOLAR MODULE SPECIFICATIONS			
<u>SOLAR MC</u>			
MANUFACTURER / MODEL #	SILFAB: SIL370-NX		
VMP	37.2V		
IMP	10A		
VOC	44.8V		
ISC	10.6A		
TEMP. COEFF. VOC	-0.350%/°C		
MODULE DIMENSION	72.13"L x 39.4"W x 1.57"D (In Inch)		

INVERTER SPECIFICATIONS		
MANUFACTURER / MODEL #	SOLAREDGE: SE5000H-US INVERTER	
MAX AC CURRENT	21A	
MAX OUTPUT POWER	240 VA	
PERCENT OF VALUES	NUMBER OF CURRENT CARRYING CONDUCTORS IN EMT	
.80	4-6	
.70	7-9	
.50	10-20	

AMBIENT TEMPERATURE SPECS	
RECORD LOW TEMP	-12°
AMBIENT TEMP (HIGH TEMP 2%)	34°
CONDUIT HEIGHT	0.5"
ROOF TOP TEMP	56°
CONDUCTOR TEMPERATURE RATE	90°
MODULE TEMPERATURE COEFFICIENT OF Voc	-0.350%/°C

DC CONDUCTOR AMPACITY JUNCTION BOX TO INVERTER

JUNCTION BOX TO INVENTED.	
AMBIENT TEMPERATURE ADJUSTMENT FOR EXPOSED CONDUIT PER NEC 310.15(B)(2)(c)	+22°
EXPECTED WIRE TEMP (In Celsius)	34°+22° = 56°
TEMP. CORRECTION PER TABLE (310.16)	0.71
NO. OF CURRENT CARRYING CONDUCTORS	2
CONDUIT FILL CORRECTION PER NEC 310.15(B)(2)(a)	1.00
CIRCUIT CONDUCTOR SIZE	10AWG
CIRCUIT CONDUCTOR AMPACITY	40A
REQUIRED CIRCUIT CONDUCTOR AMPACITY PER NEC 690.8(A&B)	
1.25 X MAX OUTPUT CURRENT	18.75A
DERATED AMPACITY OF CIRCUIT CONDUCTOR PER NEC TABLE 310.16	
TEMP. CORRECTION PER TABLE (310.16) X CONDUIT FILL CORRECTION PER NEC 310.15(B)(2)(a) X CIRCUIT CONDUCTOR AMPACITY	28.40A
Result should be greater than (18.75A) otherwise less the entry for circuit conduct ampacity	ctor size and

AC CONDUCTOR AMPACITY **INVERTER TO AC DISCONNECT:**

EXPECTED WIRE TEMP (In Celsius)	34°
TEMP. CORRECTION PER TABLE (310.16)	0.96
NO. OF CURRENT CARRYING CONDUCTORS	3
CONDUIT FILL CORRECTION PER NEC 310.15(B)(2)(a)	1
CIRCUIT CONDUCTOR SIZE	10AWG
CIRCUIT CONDUCTOR AMPACITY	40A
REQUIRED CIRCUIT CONDUCTOR AMPACITY PER NEC 690.8(A&B)	26.25A
1.25 X MAX OUTPUT CURRENT	20.23A
DERATED AMPACITY OF CIRCUIT CONDUCTOR PER NEC TABLE 310.16	
TEMP. CORRECTION PER TABLE (310.16) X CONDUIT FILL CORRECTION PER NEC 310.15(B)(2)(a) X CIRCUIT CONDUCTOR AMPACITY	38.40A
Result should be greater than (26.25A) otherwise less the entry for circuit conduct ampacity	tor size and

AC CONDUCTOR AMPACITY AC DISCONNECT TO POINT OF INTERCONNECTION:

No. OF INVERTER	1
EXPECTED WIRE TEMP (In Celsius)	34°
TEMP. CORRECTION PER TABLE (310.16)	0.96
NO. OF CURRENT CARRYING CONDUCTORS	3
CONDUIT FILL CORRECTION PER NEC 310.15(B)(2)(a)	1
CIRCUIT CONDUCTOR SIZE	8AWG
CIRCUIT CONDUCTOR AMPACITY	55A
REQUIRED CIRCUIT CONDUCTOR AMPACITY PER NEC 690.8(B)	26.25A
1.25 X MAX AC OUTPUT CURRENT	20.25A

DERATED AMPACITY OF CIRCUIT CONDU TEMP. CORRECTION PER TABLE (310.16) CONDUIT FILL CORRECTION PER NEC 31 CONDUCTOR AMPACITY Result should be greater than (26.25A) otherwise less the entry for circuit conductor size and ampacity

NOTE:

MAIN PANEL RATING:200A ALLOWABLE BACKFEED IS = 200A

OCPD CALCULATIONS:

=21x1.25=26.25A=>PV BREAKER = 30A TOTAL REQUIRED PV BREAKER SIZE =>30A PV BREAKER

ELECTRICAL NOTES

1.) ALL EQUIPMENT TO BE LISTED BY UL OR OTHER NRTL, AND LABELED FOR ITS APPLICATION.

- 2.) ALL CONDUCTORS SHALL BE COPPER, RATED FOR 600 V AND 90 DEGREE C WET ENVIRONMENT.
- 3.) WIRING, CONDUIT, AND RACEWAYS MOUNTED ON ROOFTOPS SHALL BE ROUTED DIRECTLY TO, AND LOCATED AS CLOSE AS POSSIBLE TO THE NEAREST RIDGE, HIP, OR VALLEY.
- 4.) WORKING CLEARANCES AROUND ALL NEW AND EXISTING ELECTRICAL EQUIPMENT SHALL COMPLY WITH NEC 110.26.
- 5.) DRAWINGS INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS. CONTRACTOR SHALL FURNISH ALL NECESSARY OUTLETS, SUPPORTS, FITTINGS AND ACESSORIES TO FULFILL APPLICABLE CODES AND STANDARDS.
- 6.) WHERE SIZES OF SOLADECKES, RACEWAYS, AND CONDUITS ARE NOT SPECIFIED, THE CONTRACTOR SHALL SIZE THEM ACCORDINGLY.
- 7.) ALL WIRE TERMINATIONS SHALL BE APPROPRIATELY LABELED AND READILY VISIBLE.
- 8.) MODULE GROUNDING CLIPS TO BE INSTALLED BETWEEN MODULE FRAME AND MODULE SUPPORT RAIL, PER THE GROUNDING CLIP MANUFACTURER'S INSTRUCTION.
- 9.) MODULE SUPPORT RAIL TO BE BONDED TO CONTINUOUS COPPER G.E.C. VIA WEEB LUG OR ILSCO GBL-4DBT LAY-IN LUG.
- 10.) THE POLARITY OF THE GROUNDED CONDUCTORS IS NEGATIVE

CITY PER NEC 690.8(B)	26.25A
	20.23A
JCTOR PER NEC TABLE 310.16	
X 0.15(B)(2)(a) X CIRCUIT	52.80A

INVERTER OVERCURRENT PROTECTION= INVERTER O/P I X CONTINUOUS LOAD(1.25)

REVIS DESCRIPTION	DATE	REV				
INITIAL	09/22/2021					
ADDRESS: 525W MESA AZ,85210	AR POWE	N R				
DATE:9	/22/2021					
PROJECT IN AHJ: NC-HARI UTILITY: DUK	NETT COUN	NTY				
SCHMIDT, STEVEN RESIDENCE	71 ROWLAND DR, FUQUAY-VARINA, NC 27526	35.4996349, -78.8156589				
	VN BY IMINE	i				
Becau	se quality ma t te	ers				
WIF	SHEET NAME WIRING CALCULATIONS SHEET SIZE					
AN	SI B					
	11" X 17" SHEET NUMBER PV-5					

WARNING **A** CAUTION ∕8∖ PHOTOVOLTAIC SYSTEM PHOTOVOLTAIC SYSTEM CIRCUIT IS BACKFED COMBINER PANEL LABEL LOCATION DO NOT ADD LOADS BACKFED BREAKER [PER CODE: NEC 705.12(4)] A WARNING [PER CODE: NEC 690.13(B)] INVERTER OUTPUT CONNECTION DO NOT RELOCATE THIS ∕9∖ OVERCURRENT DEVICE LABEL LOCATION: BACKFED BREAKER [PER CODE: 2017 NEC 705.12(2)(3)(b)]

LABEL LOCATION: DC DISCONNECT INVERTER [PER CODE: NEC 690.53 UTILITY]

ELECTRIC SHOCK HAZARD TERMINALS ON BOTH LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION

DC DISCONNECT INVERTER, COMBINE BOX [PER CODE: NEC 690.13(B)]

SOLAR PV SYSTEM EQUIPPED WITH RAPID SHUTDOWN

SWITCH TO THE "OFF" POSITION TO SHUT DOWN PV SYSTEM AND REDUCE SHOCK HAZARD IN THE ARRAY

LABEL LOCATION: MAIN SERVICE [PER CODE: NEC 690.12, NEC 690.56(C)(1)(a)]

OLAR ELEC

WARNING PHOTOVOLTAIC POWER SOURCE

LABEL LOCATION DC CONDUIT JUNCTION BOX NO MORE THAN 10FT [PER CODE: NEC 690.31(G)(3), NEC 690.31(G)(4)] CAUTION DUAL POWER SOURCE SECOND SOURCE IS

PHOTOVOLTAIC

LABEL LOCATION :SERVICE METER MAIN PANEL [PER CODE: UTILITY]



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

LABEL LOCATION : (IF APPLICABLE) SERVICE PANEL [PER CODE: NEC 705.12(D)(7)]



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/17

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PHOTOVOLTAIC SYSTEM UTLITY DISCONNECT SWITCH

LABEL LOCATION :AC DISCONNECT [PER CODE: NEC 690.13(B)UTILITY]

IF GROUND FAULT IS INDICATED ALL NORMALLY GROUNDED CONDUCTORS MAY BE UNGROUNDED AND ENERGIZED

LABEL LOCATION AC DISCONNECT COMBINER BOX SERVICE METER [PER CODE: NEC 690.5(C)]



DO NOT RELOCATE THIS OVERCURRENT DEVICE

LABEL LOCATION MAIN PANEL DEAD FRONT [PER CODE: NEC 705.12(B)(2)(3)(b)]

[PER CODE: NEC 690.12,690.56(C)(3)]

LABEL LOCATION: MAIN PANEL

[PER CODE: UTILITY]

[PER CODE: NEC 690.54]

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ELECTRIC SHOCK HAZARD

WARNING

A GENERATION SOURCE IS CONNECTED TO THE SUPPLY UTILITY) SIDE OF THE MAIN SERVICE DISCONNECT. FOLLOW THE PROPER LOCK-OUT/TAG-OUT PROCEDURES TO ENSURE

HE PHOTOVOLTAIC SYSTEM UTILITY DISCONNECT SWITCH IS OPENED PRIOR TO PERFORMING WORK ON THIS DEVICE

PHOTOVOLTAIC AC DISCONNECT

RATED AC OPERATING CURRENT <u>21</u> A AC NOMINAL OPERATING VOLTAGE <u>240</u> VAC

LABEL LOCATION: MAIN PANEL AC DISCONNECT(S)

RAPID SHUTDOWN SWITCH

FOR SOLAR PV SYSTEM

LABEL LOCATION: (IF APPLICABLE) SUPPLY SIDE TAP LOAD PANEL

TERMINALS ON BOTH LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION

LABEL LOCATION: COMBINER PANEL AC DISCONNECT JUNCTION BOX INVERTER(S) [PER CODE: NEC 690.13(B)]

LABEL LOCATION: AC COMBINER PANEL

MAXIMUM VOLTAGE:	<u>480</u>	VDC
MAXIMUM CIRCUIT CURRENT:	15	ADC
MAX. RATED OUTPUT CURRENT OF TH	E	
CHARGE CONTROLLER OR		
DC-TO-DC-CONVERTER (IF	<u>15</u>	ADC
INSTALLED)		

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

LABEL LOCATION

/11\ TURN RAPID SHUTDOWN

/10

∕18∖

REFLECTIVE AND WEATHER RESISTANCE LABEL REQUIRES CAPITALIZED LETTERS WITH A MINIMUM HEIGHT OF 3/8 INCH, WHITE LETTERS ON RED BACKGROUND LABELS SHALL BE PLACED ON INTERIOR AND EXTERIOR DC CONDUIT, RACEWAYS, ENCLOSURE, AND CABLE ASSEMBLIES EVERY 10 FEET, WITHIN 1 FOOT OF TURNS OR BENDS AND WITHIN 1 FOOT ABOVE AND BELOW PENETRATIONS OF ROOF/ CEILING ASSEMBLIES, WALLS OR BARRIERS.







WARNING

ELECTRIC SHOCK HAZARD

REVIS	SIONS	
DESCRIPTION	DATE	REV
INITIAL	09/22/2021	
		$\mid \mid \mid$
DATE:9 PROJECT IN AHJ: NC-HARN UTILITY: DUK NANCE NANCE NANCE NANCE NANCE NANCHARN UTILITY: DUK	71 ROWLAND DR, FUQUAY-VARINA, NC 27526 AND AND 27526	NTY
	se quality matte	ers
SHEE	T SIZE	
	K 17"	
SHEET N	NUMBER '-6	

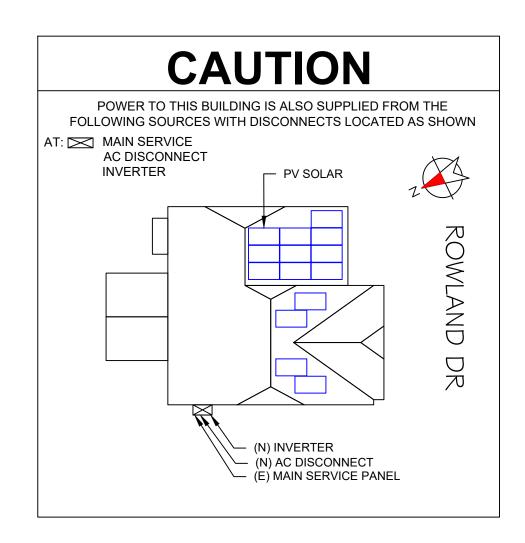
SAFETY PLANS

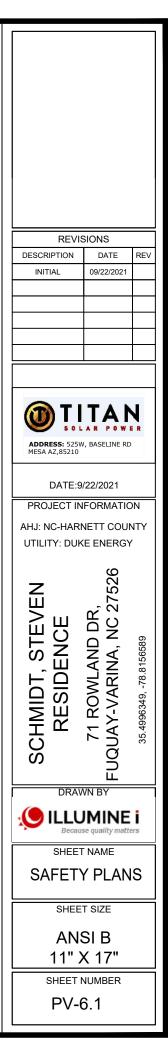
NOTES:

- 1. INSTALLERS SHALL DRAW IN DESIGNATED SAFETY AREA AROUND HOME.
- 2. INSTALLERS SHALL UPDATE NAME ADDRESS AND PHONE NUMBER OF NEAREST.
- 3. URGENT CARE FACILITY RELATIVE TO THE SITE BEFORE STARTING WORK.

LOCATION OF NEAREST URGENT CARE FACILITY

NAME: ADDRESS: PHONE NUMBER:





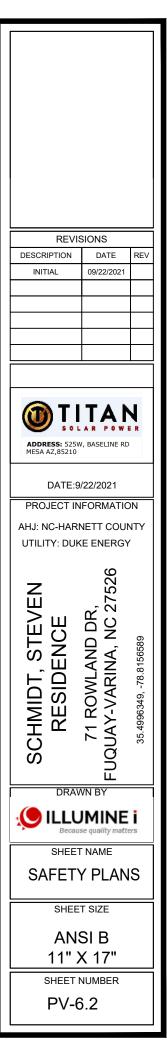
SAFETY PLANS

NOTES:

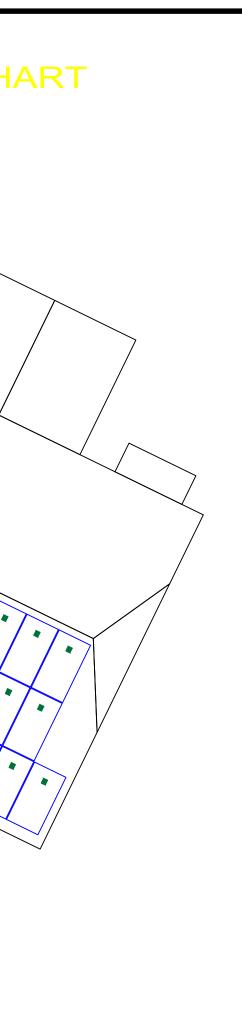
- 1. INSTALLERS SHALL DRAW IN DESIGNATED SAFETY AREA AROUND HOME.
- 2. INSTALLERS SHALL UPDATE NAME ADDRESS AND PHONE NUMBER OF NEAREST.
- 3. URGENT CARE FACILITY RELATIVE TO THE SITE BEFORE STARTING WORK.

LOCATION OF NEAREST URGENT CARE FACILITY

NAME: ADDRESS: PHONE NUMBER:



	1-10	11-20	21-30	31-40	41-50	51-60	61-70	
1								OPTIMIZER CHA
2								
3								
4								
5								
6								
7								
8								
9								
10								



REV	ISIONS				
DESCRIPTION	DATE	REV			
INITIAL	09/22/2021				
	5512212021	+			
		\square			
ADDRESS: 525 MESA AZ,85210	W, BASELINE RD				
DATE	9/22/2021				
	NFORMATIC				
AHJ: NC-HAF					
	KE ENERGI				
SCHMIDT, STEVEN RESIDENCE	71 ROWLAND DR, FUQUAY-VARINA, NC 27526	35.4996349, -78.8156589			
DRA	WN BY				
Beca	JMINE use quality matte				
SHEET NAME OPTIMIZERS CHART					
AN 11"	ISI B X 17"				
SHEET	NUMBER	Π			
P\	V-7				



TITAN SOLAR PANEL

HIGH EFFICIENCY PREMIUM **MONO-PERC PV MODULE**



CHUBB, nce to Silfab Solar Inc











The Titan Solar Panel is manufactured by Silfab Solar and includes an industry leading 25-year product workmanship and 30-year performance warranty.

MAXIMUM ENERGY OUTPUT

Leveraging over 35+ years of worldwide experience in the solar industry, Silfab is dedicated to superior manufacturing processes and innovations such as Bifacial and Back Contact technologies, to ensure our partners, such as Titan Solar have the latest in solar innovation.

NORTH AMERICAN QUALITY

Silfab is the leading automated solar module manufacturer in North America. Utilizing premium quality materials and strict quality control management to deliver the highest efficiency, premium quality PV modules.



III BAA / ARRA COMPLIANT

These panels are designed and manufactured to meet Buy American Act Compliance. The US State Department, US Military and FAA have all utilized Silfab panels in their solar installations.

III LIGHT AND DURABLE

Engineered to accommodate high wind load conditions for test loads validated up to 4000Pa uplift. The light-weight frame is exclusively designed for wide-ranging racking compatibility and durability.

III QUALITY MATTERS

Total automation ensures strict quality controls during the entire manufacturing process at ISO certified facilities.

III DOMESTIC SUPPORT / SERVICES

Our 500+ North American team is ready to help Titan Solar win the hearts and minds of customers, providing customer service and product delivery that is direct, efficient and local.

III AESTHETICALLY PLEASING

All black sleek design, ideal for high-profile residential or commercial applications.

III PID RESISTANT

PID Resistant due to advanced cell technology and material selection. In accordance to IEC 62804-1.

Electrical Specifications			X mono PERC			
Test Conditions		STC	NOCT			
Module Power (Pmax)	Wp	370	266			
Maximum power voltage (Vpmax)	V	37.2	33.7			
Naximum power current (Ipmax)	A	10.0	7.9			
Open circuit voltage (Voc)	V	44.8	40.7			
Short circuit current (Isc)	A	10.6	8.3			
Module efficiency	%	20.2	18.2			
Maximum system voltage (VDC)	V	1	000			
Series fuse rating	A		20			
Power Tolerance	Wp	+,	/-3%			
Neasurement conditions: STC 1000 W/m2 • AM 1.5 • Temperature 25 °C • NOC Sun simulator calibration reference modules from Fraunhofer Institute. Electrical	T 800 W/m ² • AM 1.5 • Meas characteristics may vary by ±	urement uncertainty ≤ 3% 5% and power by +/-3%.				
Temperature Ratings		SIL-370 NX mo	ono PERC			
Temperature Coefficient Isc		0.064 %	/°C			
Temperature Coefficient Voc		-0.28 %	/°C			
Temperature Coefficient Pmax		-0.36 %	/°C			
NOCT (± 2°C)		46 °C	2			
Operating temperature		-40/+85	°℃			
Mechanical Properties and Components		SIL-370 NX mo	ono PERC			
Nodule weight		44±0.4	lbs			
Dimensions (H x L x D)		72.13 in x 39.4	in x 1.5 in			
Naximum surface load (wind/snow)*		83.5/112.8 lb/ft^2				
Hail impact resistance	ø 1 in at 51.6 mph					
Cells		66 - Si mono-PERC - 5 bu	sbar, 62.25 x 62.25 in			
Glass		0.126 in high transmittance, tempere	ed, DSM anti-reflective coating			
Cables and connectors (refer to installation manual)		47.2 in, ø 0.22 in, M	IC4 from Staubli			
Backsheet	High durability,	superior hydrolysis and UV resistance, m	ulti-layer dielectric film, fluorine-free PV backshe			
Frame		Anodized Alumin	num (Black)			
Bypass diodes	3 diod	les-30SQ045T (45V max DC blocking vo	oltage, 30A max forward rectified current)			
Junction Box		UL 3730 Certified, IEC 6279	90 Certified, IP67 rated			
Warranties		SIL-370 NX mo	ono PERC			
Module product workmanship warranty		25 year:	S ^{**}			
1		30 yea	rs			
Linear power performance guarantee	≥ 97.1% end '	st year ≥ 91.6% end 12 th year	≥ 85.1% end 25 th year ≥ 82.6% end 30 th yea			
Certifications		SIL-370 NX mo				
		C ORD C1703, UL1703, CEC listed***				
Product		EC 61215-1/-1-1/-2***. IEC 61730-1/-2***				
F .	Amn	nonia Corrosion; IEC61701:2011 Salt Mist C				
Factory		ISO9001:	2015			
All states except California California Modules Per Pallet: 26 Modules Per Pallet: 26			1.5" [38mm]			
Pallets Per Fallet: 26 Modules Per Pallet: 26 Pallets Per Truck: 32		P1-1				
Modules Per Truck: 884 Modules Per Truck: 832		N.				
* Warning. Read the Safety and Installation Manual for		 Drainage (x8) 				
mounting specifications and before handling, installing and		/ Mounting Hole(x4)	16.67" [
operating modules.			*			
*12 year extendable to 25 years subject to registration and condi- tions outlined under "Warranty" at www.silfabsolar.com.						
***Certification and CEC listing in progress.						
PAN files generated from 3rd party performance data are		10 - 0.07 (Real	2.36 ⁺ [60mm] 7.87 ⁺ [200mm] 86mm] mil			
available for download at:						
www.silfabsolar.com/downloads.			2.36* 7.87*[2] [985mm] [2mm]			
			1832 1833			
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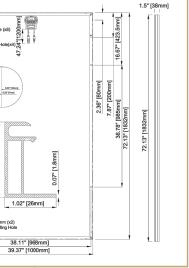


Titan Solar Power 525 W Baseline Rd Mesa, AZ 85210 Tel 855 SAY-SOLAR Titansolarpower.com info@titansolarpower Silfab Solar Inc.



240 Courtneypark Drive East Mississauga ON L5T 2Y3 Canada Tel +1905-255-2501 | Fax +1905-696-0267 info@silfabsolar.com www.silfabsolar.com Silfab Solar Inc.

800 Cornwall Ave Bellingham WA 98225 USA Tel +1 360-569-4733



Ø4.2mm (x2) Grounding Hole

38.11" [968mm 39.37" [1000mr

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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 and 2017, per article 690.11 and 690.12
- / 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
- I 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	SE11400H-US	
APPLICABLE TO INVERTERS WITH PART NUMBER		SEXXXXH-XXXXBXX4						
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⁾ H.						Hz
Maximum Continuous Output Current @240V	12.5	16	21	25	32	42	47.5	A
Maximum Continuous Output Current @208V	-	16	-	24	-	-	48.5	A
Power Factor			1	, Adjustable - 0.85 to	0.85			
GFDI Threshold				1				A
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				
Maximum Input Voltage				480				Vdc
Nominal DC Input Voltage		з	380			400		Vdc
Maximum Input Current @240V ⁽²⁾	8.5	10.5	13.5	16.5	20	27	30.5	Adc
Maximum Input Current @208V ⁽²⁾	-	9	-	13.5	-	-	27	Adc
Max. Input Short Circuit Current				45				Adc
Reverse-Polarity Protection				Yes				
Ground-Fault Isolation Detection				600kΩ Sensitivity				
Maximum Inverter Efficiency	99			9	9.2			%
CEC Weighted Efficiency				99			99 @ 240V 98.5 @ 208V	%
Nighttime Power Consumption				< 2.5				W

⁽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

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/ Single Phase Inverter with HD-Wave Technology for North America

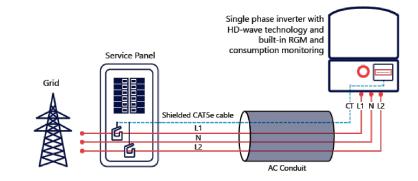
SE3000H-US / SE3800H-US / SE5000H-US / SE6000H-US/ SE7600H-US / SE10000H-US / SE11400H-US

MODEL NUMBER	SE3000H-US	SE3800H-US	SE5000H-US	SE6000H-US	SE7600H-US	SE10000H-US	SE11400H-US	
ADDITIONAL FEATURES								
Supported Communication Interfaces		RS485, Ethernet, ZigBee (optional), Cellular (optional)						
Revenue Grade Metering, ANSI C12.20				Optional ⁽³⁾				
Consumption metering				,				
Inverter Commissioning		With the Set	App mobile applicati	on using Built-in Wi-I	Fi Access Point for Lo	ocal Connection		
Rapid Shutdown - NEC 2014 and 2017 690.12			Automatic Rap	d Shutdown upon A	C Grid Disconnect			
STANDARD COMPLIANCE								
Safety		UL1741,	UL1741 SA, UL1699B	CSA C22.2, Canadia	n AFCI according to	T.I.L. M-07		
Grid Connection Standards			IEE	E1547, Rule 21, Rule 1	4 (HI)			
Emissions				FCC Part 15 Class E	3			
INSTALLATION SPECIFICA	TIONS							
AC Output Conduit Size / AWG Range		1"	Maximum / 14-6 AV	VG		1" Maximun	n /14-4 AWG	
DC Input Conduit Size / # of Strings / AWG Range		1" Maximum / 1-2 strings / 14-6 AWG 1" Maximum / 1-3 strings / 14-6 AWG					strings / 14-6 AWG	
Dimensions with Safety Switch (HxWxD)		17.7 x 14.6 x 6.8 / 450 x 370 x 174 21.3 x 14.6 x 7.3 / 540 x 370 x 185					/ 540 x 370 x 185	in / mm
Weight with Safety Switch	22 / 10 25.1 / 11.4 26.2 / 11.9 38.8 / 17.6				/ 17.6	lb / kg		
Noise		<	25			<50		dBA
Cooling				Natural Convection	1			
Operating Temperature Range			-4	40 to +140 / -40 to +	60(4)			°F/°C
Protection Rating			NEMA	4X (Inverter with Safe	ety Switch)			

⁽ⁿ⁾ Inverter with Revenue Grade Meter P/N: SExxxH-US000BNC4; Inverter with Revenue Grade Production and Consumption Meter P/N: SExxxH-US000BNI4. For consumption metering, current transformers should be ordered separately: SEACT0750-200NA-20 or SEACT0750-400NA-20. 20 units per box
 ^(a) 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-na.pdf

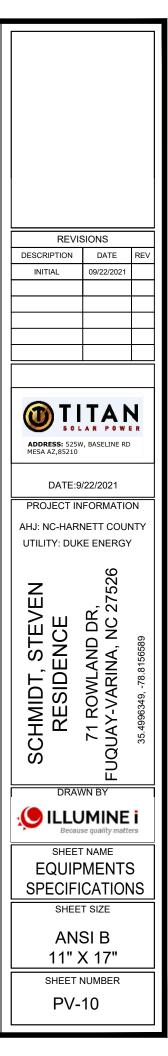
How to Enable Consumption Monitoring

By simply wiring current transformers through the inverter's existing AC conduits and connecting them to the service panel, homeowners will gain full insight into their household energy usage helping them to avoid high electricity bills



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RoHS



Power Optimizer

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



PV power optimization at the module-level

- I Specifically designed to work with SolarEdge inverters
- / 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

- **/** Fast installation with a single bolt
- / 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)	P400 (for 72 & 96- 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 Efficiency			99.5	·		%		
Weighted Efficiency			98.8			%		
Overvoltage Category			11					
OUTPUT DURING OPERATIO	N (POWER OPTIMIZE	R CONNECTED	TO OPERATING SO	AREDGE INVERT	ER)			
Maximum Output Current			15			Adc		
Maximum Output Voltage		60 85						
OUTPUT DURING STANDBY (P	OWER OPTIMIZER DI	ISCONNECTED	FROM SOLAREDGE IN	VERTER OR SOLA	REDGE INVERTER	OFF		
Safety Output Voltage per Power Optimizer			1 ± 0.1			Vdc		
STANDARD COMPLIANCE								
Photovoltaic Rapid Shutdown System	1	NEC 2014, 2017 & 202	0	NEC 2014, 2017 & 2020	NEC 2014, 2017 & 2020			
EMC		FCC Part	15 Class B, IEC61000-6-2, IEC6	1000-6-3				
Safety		IE	C62109-1 (class II safety), UL17	41				
Material			UL94 V-0 , UV Resistant					
RoHS			Yes					
INSTALLATION SPECIFICATIO	ONS							
Maximum Allowed System Voltage			1000			Vdc		
Compatible inverters		All SolarEdg	e Single Phase and Three Pha	se inverters				
Dimensions (W x L x H)	129 x 153 x 27.5 / 5.1 x 6 x 1.1	129 x 153 x 33.5 / 5.1 x 6 x 1.3	129 x 153 x 29.5 /5.1 x 6 x 1.16	129 x 153 x 33.5 / 5.1 x 6 x 1.3	129 x 162 x 59 / 5.1 x 6.4 x 2.3	mm /in		
Weight (including cables)	655 / 1.4	750 / 1.7	655 / 1.4	845 / 1.9	1064 / 2.3	gr/lk		
Input Connector		MC4 ⁽³⁾		Single or dual MC4(3)(4)	MC4 ⁽³⁾			
Input Wire Length	0.16 / 0.52, 0.9 / 2.95(4)	0.16 / 0.52	0.16 / 0.52, 0.9 / 2.95(4)	0.16 / 0.52	0.16 / 0.52	m/f		
Output Wire Type / Connector			Double Insulated / MC4					
			1.2 / 3.9			m/f		
Output Wire Length	-40 to +85 / -40 to +185							
Output Wire Length Operating Temperature Range ⁽⁵⁾			-40 to +85 / -40 to +185					
· · ·			-40 to +85 / -40 to +185 IP68 / NEMA6P					

(3) For other connector types please contact SolarEdge

(4) For dual version for parallel connection of two modules use P485-4NMDMRM. In the case of an odd number of PV modules in one string, installing one P485 dual version power optimizer connected to one PV module. When connecting a single module seal the unused input connectors with the supplied pair of seals

(5) For ambient temperature above +85°C / +185°F power de-rating is applied. Refer to Power Optimizers Temperature De-Rating Technical Note for more details

PV System Design Usi Inverter ⁽⁶⁾⁽⁷⁾	ng a SolarEdge	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) P485, P505		6		8	14	
Maximum String Length (Power Optimizers)		25	5	25	50	
Maximum Nominal Power per String		5700 [®] (6000 with SE7600-US - SE11400-US)	5250 ⁽⁸⁾	6000 [®]	12750(10)	W
Parallel Strings of Different Lengths or Orientations		Yes				

(6) For detailed string sizing information refer to: http://www.solaredge.com/sites/default/files/string_sizing_na.pdf
 (7) It is not allowed to mix P485/P505 with P370/P400/P401 in one string
 (8) 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.

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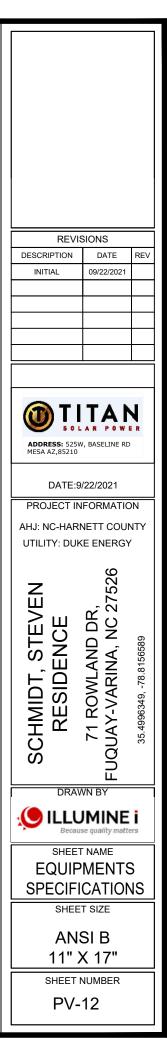


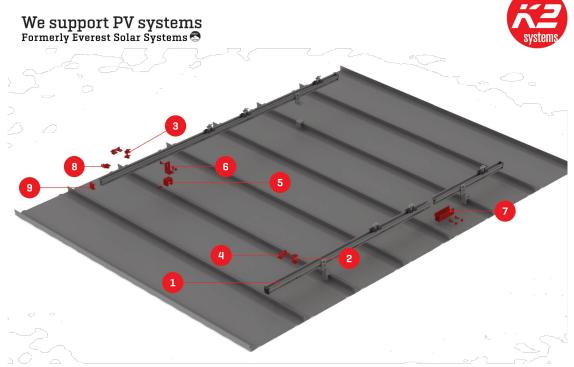
item Number	Description	Part Number
1	Splice Foot X	4000113 Splice Foot X Kit, Mill
2	K2 Solar Seal Butyl Pad	
8	M5 x 60 lag screws	
4	T-Bolt & Hex Nut Set	

Technical Data

	Splice Foot X
Roof Type	Composition shingle
Material	Aluminum with stainless steel hardware
Finish	Mill
Roof Connection	M5 x 60 lag screws
Code Compliance	UL 2703
Compatibility	CrossRail 44-X, 48-X, 48-XL, 80

k2-systems.com





CrossRail Shared Rail System

TECHNICAL SHEET

Item Number	Description	Part Number
1	CrossRail 44-X (shown) all CR profiles applicable	4000019 (166" mill), 4000020 (166" dark) , 4000021 (180" mill), 4000022 (180" dark)
2	CrossRail Mid Clamp	4000601-H (mill), 4000602-H (dark)
3	CrossRail (Standard) End Clamp	4000429 (mill), 4000430 (dark)
4	Add-On (5mm shown)	4000632 (5mm), 4000609 (10mm)
5	Standing Seam PowerClamp (mini shown)	4000016 (mini), 4000017 (standard)
6	L-Foot Slotted Set	4000630 (mill), 4000631 (dark)
7	CrossRail 44-X Rail Connector (shown) CR 48-X, 48-XL Rail Connector available	4000051 (mill), 4000052 (dark)
8	Everest Ground Lug	4000006-H
9	CrossRail 44-X End Cap (shown) CrossRail 48-X, 48-XL and 80 available	4000067



We support PV systems Formerly Everest Solar Systems

CROSSRAIL 48-X



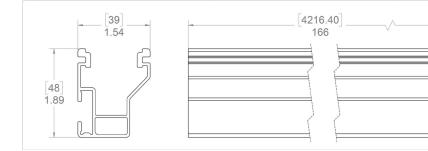
Mechanical Properties

	CrossRail 48-X
Material	6000 Series Aluminum
Ultimate Tensile Strength	37.7 ksi (260 MPa)
Yield Strength	34.8 ksi (240 MPa)
Weight	0.56 lbs/ft (0.833 kg/m)
Finish	Mill or Dark Anodized

Sectional Properties

	CrossRail 48-X	
Sx	0.1980 in³ (3.245	5 cm³]
Sy	0.1510 in ³ (2.474	cm ³]
A (X-Section)	0.4650 in² (2.999	3 cm²]

Units: [mm] in



Notes:

- Structural values and span charts determined in accordance with Aluminum Design Manual and ASCE 7-16
- UL2703 Listed System for Fire and Bonding



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	SIONS				
DESCRIPTION INITIAL	DATE 09/22/2021	REV			
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ADDRESS: 525V MESA AZ,85210	V, BASELINE RD				
DATE:9	/22/2021				
AHJ: NC-HAR	DATE:9/22/2021 PROJECT INFORMATION AHJ: NC-HARNETT COUNTY UTILITY: DUKE ENERGY				
SCHMIDT, STEVEN RESIDENCE	71 ROWLAND DR, FUQUAY-VARINA, NC 27526	35.4996349, -78.8156589			
Becau					
SHEET NAME EQUIPMENTS SPECIFICATIONS SHEET SIZE					
AN	ANSI B 11" X 17"				
SHEET NUMBER PV-13					