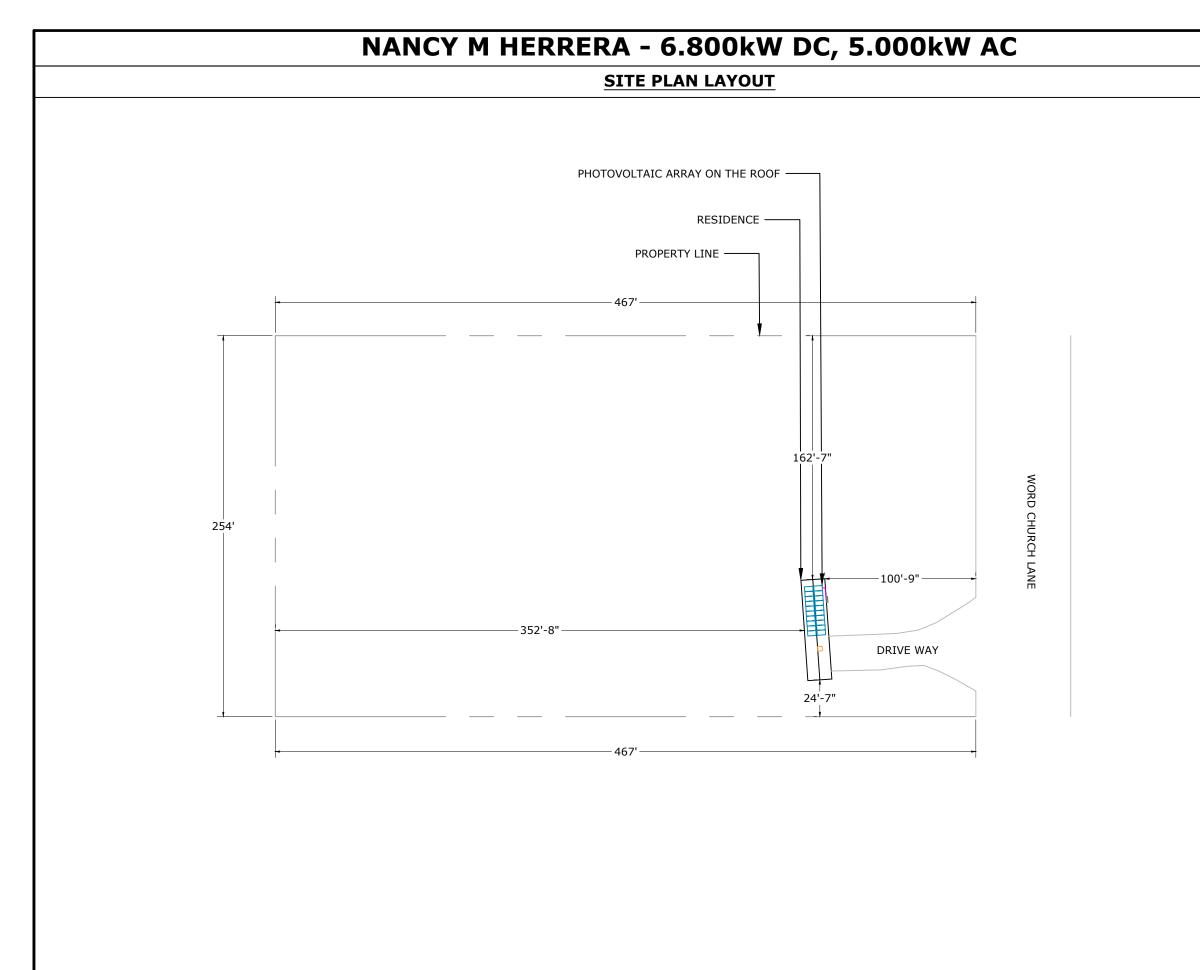
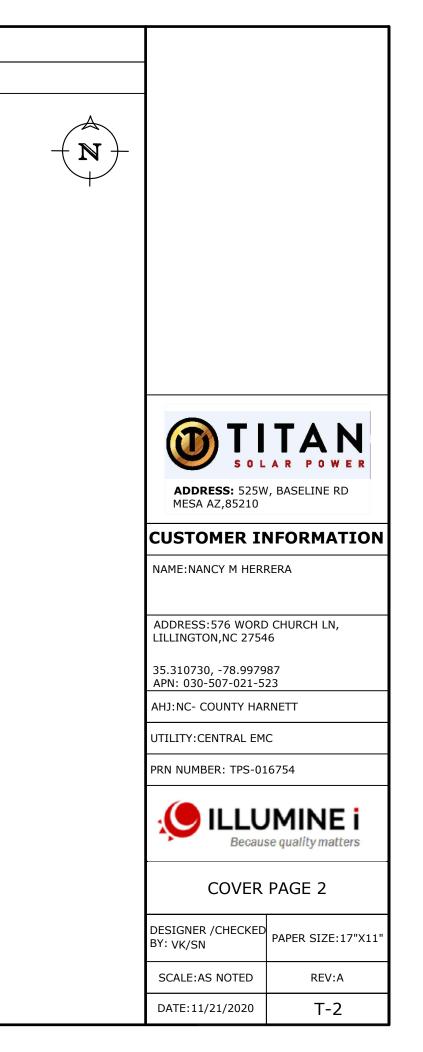
SF	IEET CATALOG	NANCY M HERRERA - 6.800kW DC, 5.000kW AC	VICINITY MAP
INDEX NO.	DESCRIPTION	SITE PLAN LAYOUT	-
T-1	COVER PAGE	<u>SITE PLAN LATOUT</u>	Vord Ch
T-2	COVER PAGE 2		urch Ln
M-1	MOUNTING DETAIL	NOTE: NO GATE OR FENCE	
M-2	STRUCTURAL DETAIL	$+ \mathbf{N} +$	<
E-1	SINGLE LINE DIAGRAM		ord Chur
E-2	THREE LINE DIAGRAM		ch Li
E-3	STRING WIRING DIAGRAM		
PL-1	WARNING PLACARDS		
PL-2	SAFETY PLANS		NOTICE TO CONTRACTOR Al construction must comply with curren INC Building Codes
SS	SPEC SHEET(S)		and is subject to field inspection and verification. APPROVED
<u>SC</u>	COPE OF WORK	CONDUIT RUN	United building on view Post and the responsible for full complement with the code 02/12/2021 Building Complement of the complement ODE THE COMPLEMENT OF THE COMPLEMENT OF THE CAROLINA
SE5000H-US(24 OPTIMIZER:	AR SIL-340NL TECHNOLOGIES	(E) MAIN SERVICE PANEL (N) PV UTILITY DISCONNECT SWITCH (N) PV REVENUE METER (N) PV INVERTER	
	LICABLE CODES	PHOTOVOLTAIC ARRAY ON THE ROOF	ADDRESS: 525W, BASELINE RD MESA AZ,85210
ELECTRIC COD FIRE CODE:IFC BUILDING COD	2018		CUSTOMER INFORMATION
	ENERAL NOTES		NAME:NANCY M HERRERA
CONFORM TO TI 2.INVERTERS A CONFORM TO TI 3.DRAWINGS A GENERAL ARRA THE ACTUAL SI 4.WORKING CL ELECTRICAL EQ ACCORDANCE V 5.ALL GROUND GERVICE GROU GERVICE EQUIP	E LISTED UNDER UL 1703 AND HE STANDARDS. ARE LISTED UNDER UL 1741 AND HE STANDARDS. ARE DIAGRAMMATIC, INDICATING NGEMENT OF THE PV SYSTEM AND TE CONDITION MIGHT VARY. EARANCES AROUND THE NEW PV UIPMENT WILL BE MAINTAINED IN VITH NEC 110.26. WIRING CONNECTED TO THE MAIN NDING IN MAIN SERVICE PANEL/ MENT. CTORS SHALL BE 600V, 75°C		ADDRESS:576 WORD CHURCH LN, LILLINGTON,NC 27546 35.310730, -78.997987 APN: 030-507-021-523 AHJ:NC- COUNTY HARNETT UTILITY:CENTRAL EMC PRN NUMBER: TPS-016754
7.WHEN REQUIF FOR INSPECTION REGULATIONS. 3.THE SYSTEM N THE CONTRACT OCAL JURISDIO 9.ROOF ACCES	PER UNLESS OTHERWISE NOTED. RED, A LADDER SHALL BE IN PLACE ON IN COMPLIANCE WITH OSHA WILL NOT BE INTERCONNECTED BY FOR UNTIL APPROVAL FROM THE CTION AND/OR THE UTILITY. S POINT SHALL BE LOCATED IN O NOT REQUIRE THE PLACEMENT		COVER PAGE
OF GROUND LA VINDOWS OR I OINTS OF BUII	DDERS OVER OPENINGS SUCH AS DOORS, AND LOCATED AT STRONG LDING CONSTRUCTION WHERE THE T DOES NOT CONFLICT WITH		DESIGNER /CHECKED BY: VK/SN PAPER SIZE:17"X11
VERHEAD OB VIRES OR SIGN	STRUCTIONS SUCH AS TREES, IS.		SCALE:AS NOTED REV:A
	Y COMBINER/JUNCTION BOX NSITION FROM ARRAY WIRING TO	SCALE:1/8" = 1'-0"	DATE:11/21/2020 T-1



SCALE:1/64" = 1'-0"



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.

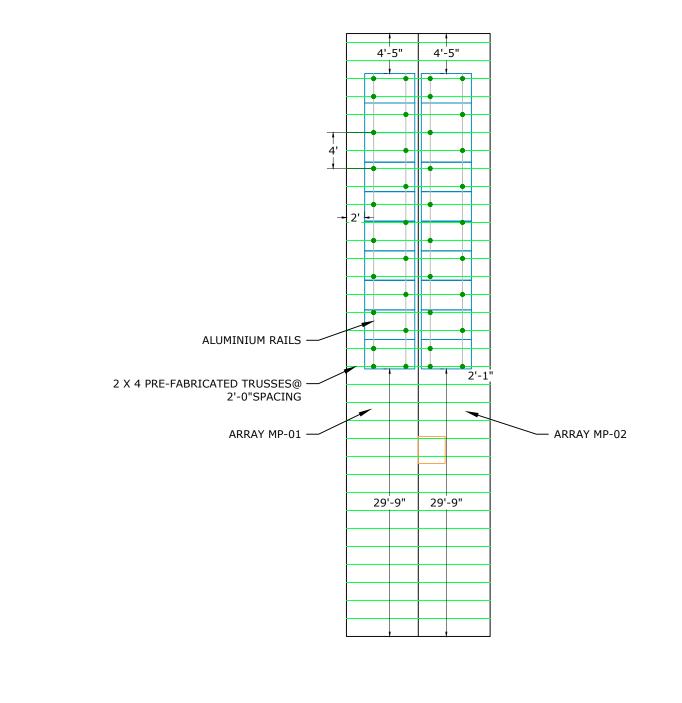
5.ROOF MOUNTED STANDARD RAIL REQUIRES ONE THERMAL EXPANSION GAP FOR EVERY RUN OF RAIL GREATER THAN 40'.

6.ALL CONDUCTORS AND CONDUITS ON THE ROOF SHALL BE MINIMUM 2.5" ABOVE THE ROOF SURFACE (INCLUDING CABLES UNDERNEATH MODULES AND RACKING).

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

	SITE INFORMATION - WIND SPEED: 118 MPH AND SNOW LOAD: 10 PSF											
SR. NO	AZIMUTH	PITCH	NO. OF MODULES	ARRAY AREA (SQ. FT.)	ROOF TYPE	ATTACHMENT	ROOF EXPOSURE	FRAME TYPE	FRAME SIZE	FRAME SPACING	MAX RAIL SPAN	OVER HANG
MP-01	86°	20°	10	183.0	COMPOSITION SHINGLE	QUICK MOUNT	ATTIC	PRE-FABRICATED TRUSSES	2 X 4	2'-0"	4'-0"	2'-0"
MP-02	266°	20°	10	183.0	COMPOSITION SHINGLE	QUICK MOUNT	ATTIC	PRE-FABRICATED TRUSSES	2 X 4	2'-0"	4'-0"	2'-0"

NOTE: PENETRATIONS ARE STAGGERED



SCALE:3/32" = 1'-0"





ADDRESS: 525W, BASELINE RD MESA AZ,85210

CUSTOMER INFORMATION

NAME:NANCY M HERRERA

ADDRESS:576 WORD CHURCH LN, LILLINGTON, NC 27546

35.310730, -78.997987 APN: 030-507-021-523

AHJ:NC- COUNTY HARNETT

UTILITY:CENTRAL EMC

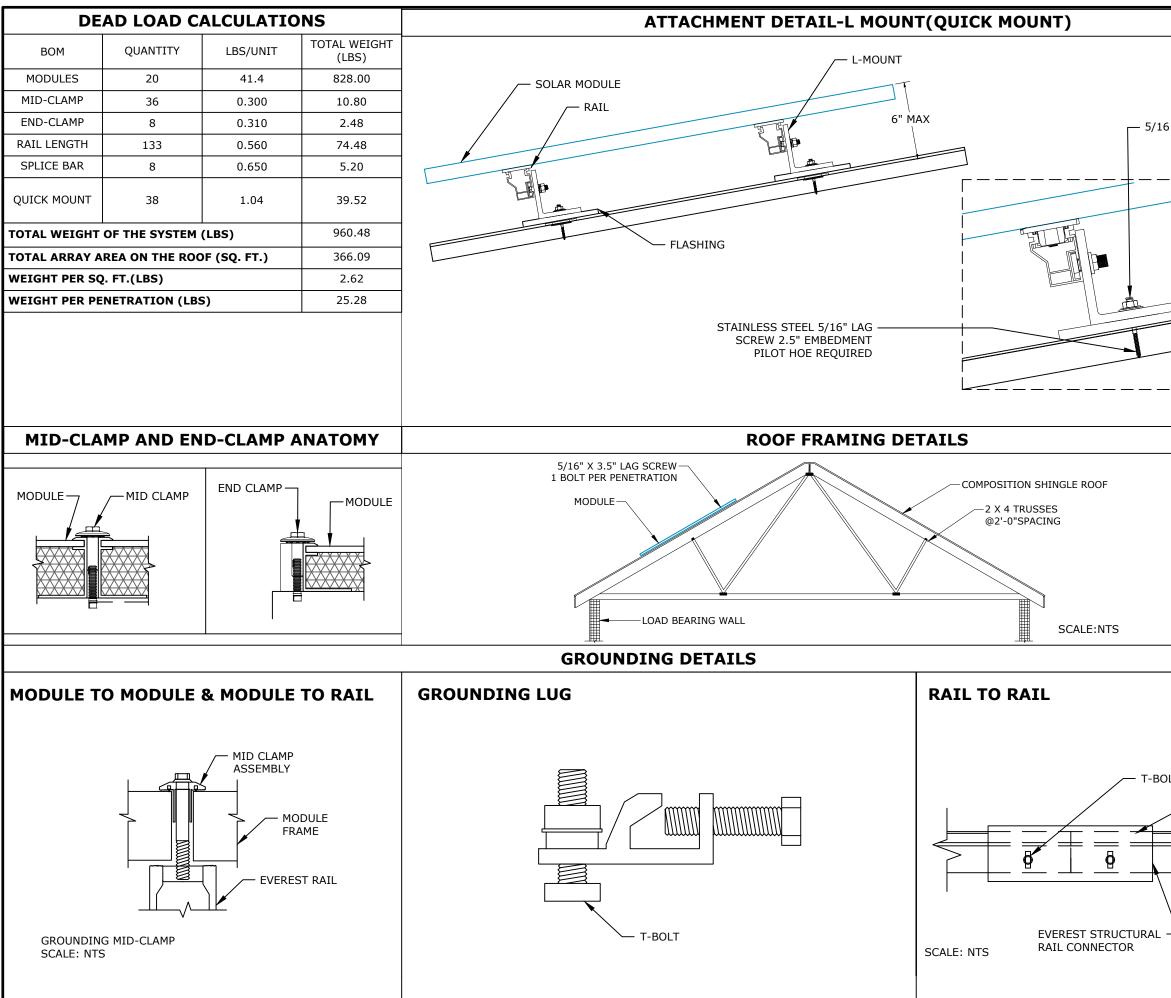
PRN NUMBER: TPS-016754



MOUNTING DETAIL

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	N	+
T	TA	
	Y	

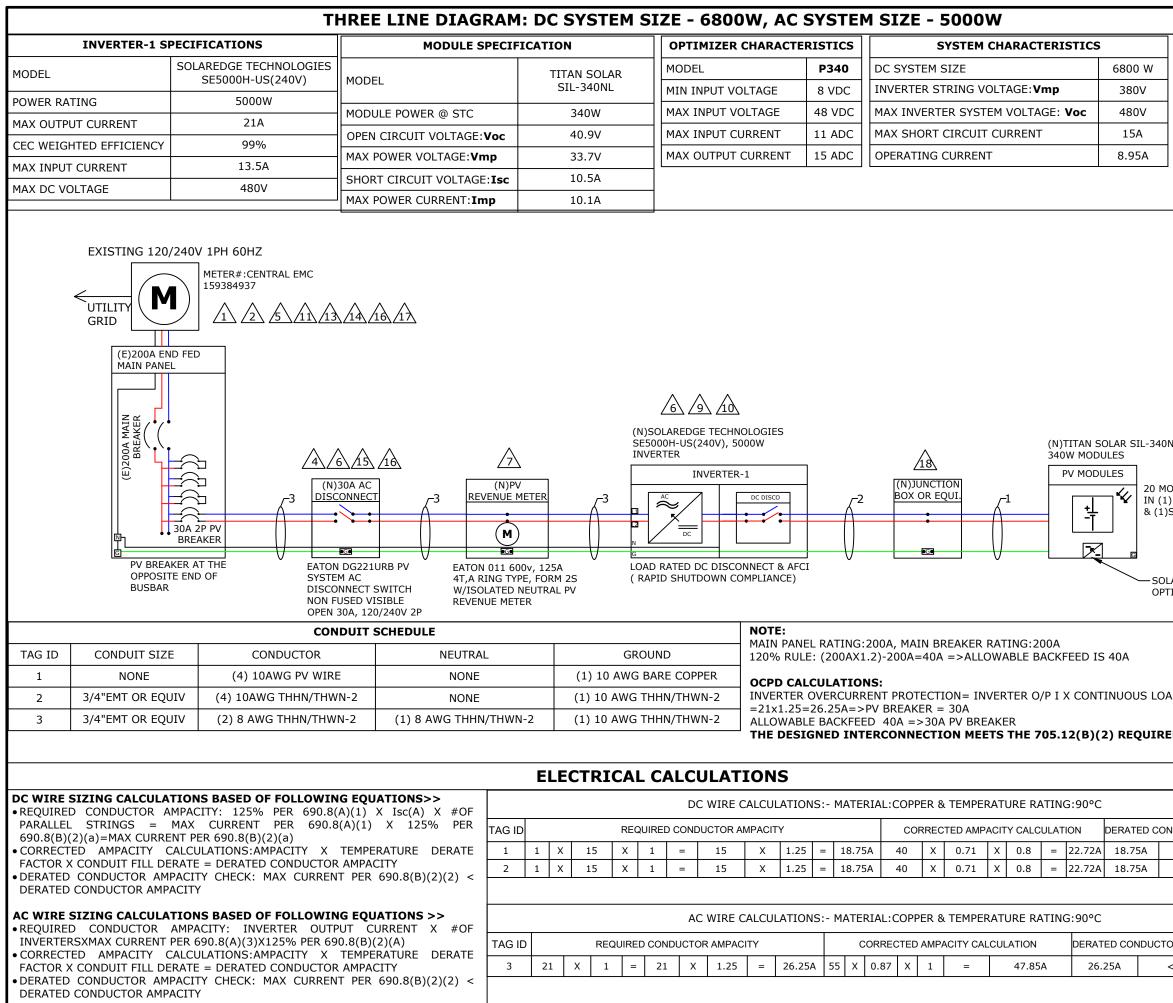
DESIGNER /CHECKED BY: VK/SN	PAPER SIZE:17"X11"
SCALE:AS NOTED	REV:A
DATE:11/21/2020	M-1



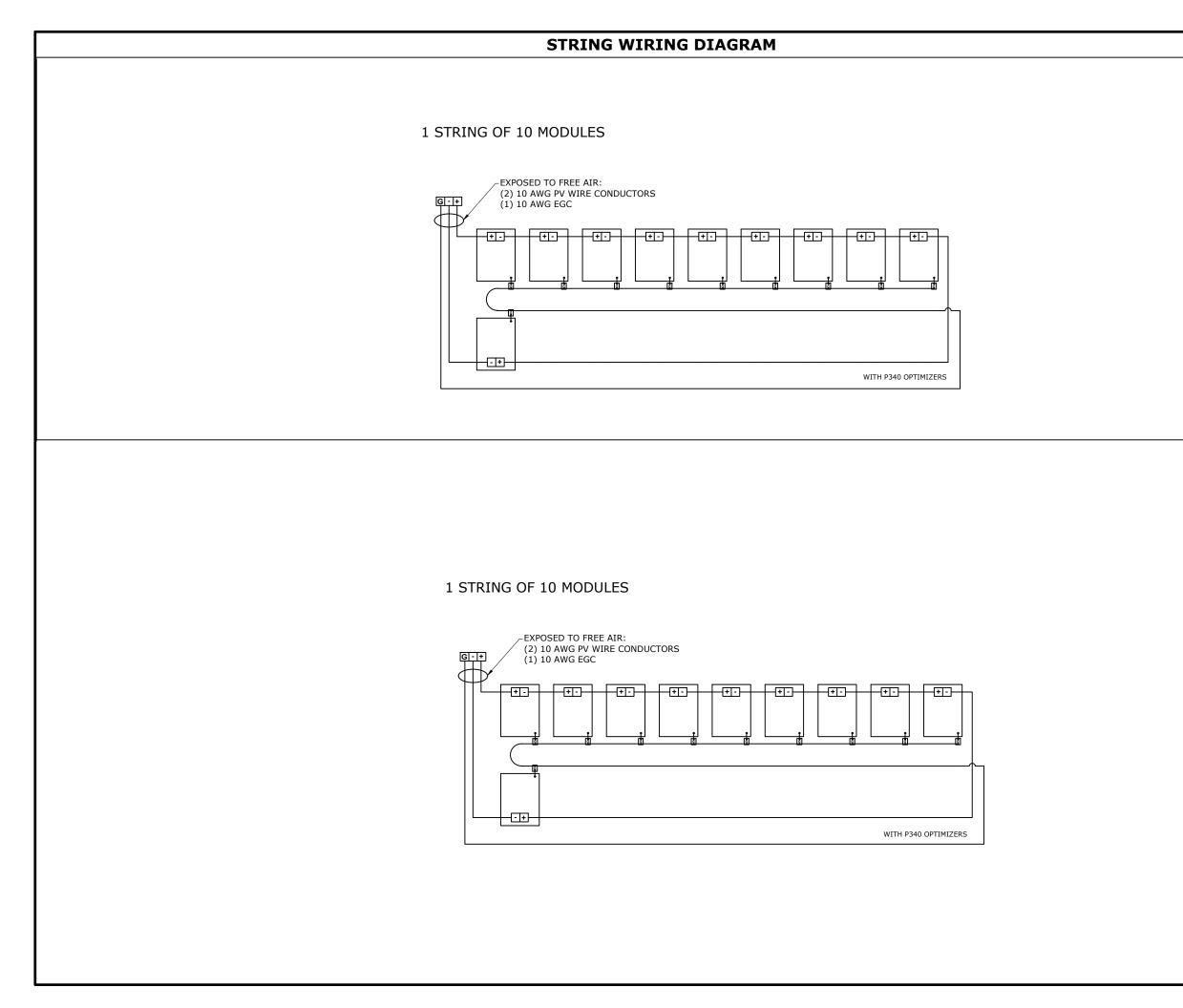
	MODU	ILES DAT	ΓΑ
	TITAN S	OLAR SIL-340	NL
	MODULE DIMS	66.9"x39.	.4"x1.5"
	LAG SCREWS	5/16"x3.5" EMBED	
EX-BOLT	UPLIFT C	ALCULAT	TIONS
	UPLIFT	10982.8	LBS
	PULL OUT STRENGTH	23370	LBS
	POINT LOADING	22	LBS
	ADDRESS: 5: MESA AZ,852	25W, BASELIN	OWER
	CUSTOMER		1ATIO
		IERRERA DRD CHURCH	
	ADDRESS:576 W LILLINGTON,NC 2 35.310730, -78.9	IERRERA DRD CHURCH 7546 97987	
	ADDRESS:576 W	IERRERA DRD CHURCH 7546 97987 1-523	
	ADDRESS:576 W LILLINGTON,NC 2 35.310730, -78.9 APN: 030-507-02	IERRERA DRD CHURCH 7546 97987 1-523 HARNETT	
	ADDRESS:576 W LILLINGTON,NC 2 35.310730, -78.9 APN: 030-507-02 AHJ:NC- COUNTY	IERRERA DRD CHURCH 7546 97987 1-523 HARNETT EMC	
SCREW	ADDRESS:576 WILLILLINGTON,NC 2 35.310730, -78.9 APN: 030-507-02 AHJ:NC- COUNTY UTILITY:CENTRAL PRN NUMBER: TPS	IERRERA DRD CHURCH 7546 97987 1-523 HARNETT EMC	LN,
	ADDRESS:576 WULILLINGTON,NC 2 35.310730, -78.9 APN: 030-507-02 AHJ:NC- COUNTY UTILITY:CENTRAL PRN NUMBER: TPS	DRD CHURCH 7546 97987 1-523 HARNETT EMC 5-016754	LN,
	ADDRESS:576 WULILLINGTON,NC 2 35.310730, -78.9 APN: 030-507-02 AHJ:NC- COUNTY UTILITY:CENTRAL PRN NUMBER: TPS	DRD CHURCH 7546 97987 1-523 HARNETT EMC 5-016754 URAL DE GED	LN,
	ADDRESS:576 W LILLINGTON,NC 2 35.310730, -78.9 APN: 030-507-02 AHJ:NC- COUNTY UTILITY:CENTRAL PRN NUMBER: TPS STRUCT DESIGNER /CHECK	DRD CHURCH 7546 97987 1-523 HARNETT EMC 5-016754 URAL DE URAL DE	LN, JEi matters

		1	NGLE LINE DIAGRA				1	-
	INVERTER-1 SP		MODULE SPEC		OPTIMIZER CHARAC		SYSTEM CHARACTERISTIC	1
MODEL		SOLAREDGE TECHNOLOGIES SE5000H-US(240V)	MODEL	TITAN SOLAR SIL-340NL	MODEL MIN INPUT VOLTAGE	P340	DC SYSTEM SIZE	6800 W
POWER RAT	TING	5000W				8 VDC		380V
MAX OUTPL	JT CURRENT	21A	MODULE POWER @ STC	340W	MAX INPUT VOLTAGE	48 VDC	MAX INVERTER SYSTEM VOLTAGE: Voc	480V
CEC WEIGH	HTED EFFICIENCY	99%	OPEN CIRCUIT VOLTAGE: Voc		MAX INPUT CURRENT	11 ADC	MAX SHORT CIRCUIT CURRENT	15A
MAX INPUT	CURRENT	13.5A	MAX POWER VOLTAGE: Vmp	33.7V	MAX OUTPUT CURRENT	15 ADC	OPERATING CURRENT	8.95A
MAX DC VO	DLTAGE	480V	SHORT CIRCUIT VOLTAGE: Iso MAX POWER CURRENT: Imp	10.5A 10.1A	_			
	(E) 2004 MAIN PAR BREAKER (E) 2004 MAIN				N)SOLAREDGE TECHNOLOGIES SE5000H-US(240V), 5000W NVERTER INVERTER-1	_	18 340W MODL Image: Note of the second sec	
	PV BREAKE OPPOSITE	END OF SYSTE	N DG221URB PV EATON 011 EM AC DISCONNECT 4T,A RING	111 L, 10101 20	OAD RATED DC DISCONNECT & A	FCI		
	PV BREAK	A 30A 2P PV BREAKER ER AT THE EATON END OF SYSTE SWITC VISIB 120/2	N DG221URB PV EATON 011 EM AC DISCONNECT 4T,A RING	M C 600v, 125A TYPE, FORM 2S LG ED NEUTRAL PV (F				
TAG ID	PV BREAKE OPPOSITE	A AT THE EATON ER AT THE EATON END OF SYSTE SWITC VISIB 120/20	N DG221URB PV EATON 011 EM AC DISCONNECT 4T,A RING CH NON FUSED W/ISOLATI LE OPEN 30A, REVENUE M 40V, 2P	M C 600v, 125A TYPE, FORM 2S ED NEUTRAL PV (F 1ETER	OAD RATED DC DISCONNECT & A RAPID SHUTDOWN COMPLIANCE)	: PANEL RATIN	G:200A, MAIN BREAKER RATING:200A	SOLAREE
TAG ID 1	PV BREAKE OPPOSITE BUSBAR	A AT THE EATON ER AT THE EATON END OF SYSTE SWITC VISIB 120/20	N DG221URB PV EATON 011 EM AC DISCONNECT 4T,A RING CH NON FUSED W/ISOLATI LE OPEN 30A, REVENUE M 40V, 2P DUIT SCHEDULE NEUTRAL	M C 600v, 125A TYPE, FORM 2S LC ED NEUTRAL PV (F METER GRC	OAD RATED DC DISCONNECT & A RAPID SHUTDOWN COMPLIANCE)	: PANEL RATIN RULE: (200A	G:200A, MAIN BREAKER RATING:200A X1.2)-200A=40A =>ALLOWABLE BACKFEEI	SOLAREE
-	PV BREAK OPPOSITE BUSBAR CONDUIT SIZE	A THE EATON PV BREAKER ER AT THE EATON SYSTE SWITC VISIB 120/20 CONDUCTOR (4) 10AWG PV WIRE	N DG221URB PV EATON 011 EM AC DISCONNECT 4T,A RING CH NON FUSED W/ISOLATI LE OPEN 30A, REVENUE M 40V, 2P DUIT SCHEDULE NEUTRAL NONE	M C . 600v, 125A TYPE, FORM 2S ED NEUTRAL PV (F METER GR((1) 10 AWG	OAD RATED DC DISCONNECT & A RAPID SHUTDOWN COMPLIANCE) DUND BARE COPPER THHN/THWN-2	: PANEL RATIN RULE: (200A CALCULATI TER OVERCU	G:200A, MAIN BREAKER RATING:200A X1.2)-200A=40A =>ALLOWABLE BACKFEEI ONS: RRENT PROTECTION= INVERTER O/P I X CO	SOLAREE OPTIMIZI
1	PV BREAK OPPOSITE BUSBAR CONDUIT SIZE NONE	AT THE EATON ER AT THE EATON END OF SYSTE SWITC VISIB 120/24 CONUCTOR (4) 10AWG PV WIRE IV (4) 10AWG THHN/THWI	N DG221URB PV EATON 011 M AC DISCONNECT 4T,A RING CH NON FUSED W/ISOLATI LE OPEN 30A, 40V, 2P DUIT SCHEDULE NEUTRAL NONE N-2 NONE	M 600v, 125A TYPE, FORM 2S LG ED NEUTRAL PV (F METER GRG (1) 10 AWG (1) 10 AWG	OAD RATED DC DISCONNECT & A RAPID SHUTDOWN COMPLIANCE) DUND BARE COPPER THHN/THWN-2 THHN/THWN-2 THHN/THWN-2	: PANEL RATIN RULE: (200A CALCULATI TER OVERCU 25=26.25A= VABLE BACKF	G:200A, MAIN BREAKER RATING:200A X1.2)-200A=40A =>ALLOWABLE BACKFEEI ONS: RRENT PROTECTION= INVERTER O/P I X CO =>PV BREAKER = 30A EED 40A =>30A PV BREAKER	SOLAREL OPTIMIZ
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1 2 3 DC WIRE S • REQUIRED PARALLEL	PV BREAKE OPPOSITE BUSBAR CONDUIT SIZE NONE 3/4"EMT OR EQU 3/4"EMT OR EQU 3/4"EMT OR EQU SIZING CALCULAT D CONDUCTOR AL STRINGS =	Image: Second state sta	N DG221URB PV EATON 011 EM AC DISCONNECT 4T,A RING CH NON FUSED W/ISOLATI LE OPEN 30A, REVENUE N 40V, 2P NEUTRAL NONE N-2 NONE N-2 (1) 8 AWG THHN/THV G EQUATIONS>> A)(1) X Isc(A) X #OF	M 6 600v, 125A TYPE, FORM 2S LG ED NEUTRAL PV (F 1ETER (1) 10 AWG (1) 10 AWG (1) 10 AWG VN-2 (1) 10 AWG	OAD RATED DC DISCONNECT & A RAPID SHUTDOWN COMPLIANCE) DUND BARE COPPER THHN/THWN-2 THHN/THWN-2 THHN/THWN-2 CALCULATIONS	: PANEL RATIN RULE: (200A CALCULATI TER OVERCU 25=26.25A= VABLE BACKF DESIGNED IN	G:200A, MAIN BREAKER RATING:200A X1.2)-200A=40A =>ALLOWABLE BACKFEEI ONS: RRENT PROTECTION= INVERTER O/P I X CO =>PV BREAKER = 30A EED 40A =>30A PV BREAKER NTERCONNECTION MEETS THE 705.12(I	SOLAREL OPTIMIZ
1 2 3 DC WIRE S • REQUIRED PARALLEL 690.8(B)(• CORRECT	PV BREAKE OPPOSITE BUSBAR CONDUIT SIZE NONE 3/4"EMT OR EQU 3/4"EMT OR EQU 3/4"EMT OR EQU 3/4"EMT OR EQU 3/4"EMT OR EQU 2)(a)=MAX CURRE ED AMPACITY C	Image: Second system Image: Second system Image: Second system Image: System Image: Second system System Image: System CONDUCTOR (4) 10AWG PV WIRE Image: System Image: System Swift Image: Swift <td>N DG221URB PV EATON 011 EM AC DISCONNECT 4T,A RING CH NON FUSED W/ISOLATI LE OPEN 30A, REVENUE N 40V, 2P NEUTRAL DUIT SCHEDULE NONE N-2 NONE N-2 (1) 8 AWG THHN/THV G EQUATIONS>> A)(1) X Isc(A) X #OF A)(1) X 125% PER TAG TEMPERATURE DERATE</td> <td>M 600V, 125A TYPE, FORM 2S LG ED NEUTRAL PV (F METER (1) 10 AWG (1) 10 AWG (1) 10 AWG VN-2 (1) 10 AWG ELECTRICAL</td> <td>OAD RATED DC DISCONNECT & A RAPID SHUTDOWN COMPLIANCE) DUND BARE COPPER THHN/THWN-2 THHN/THWN-2 THHN/THWN-2 CALCULATIONS DC WIRE CALCULAT UIRED CONDUCTOR AMPACITY</td> <td>: PANEL RATIN RULE: (200A CALCULATI TER OVERCU 25=26.25A= VABLE BACKF DESIGNED IN</td> <td>G:200A, MAIN BREAKER RATING:200A X1.2)-200A=40A =>ALLOWABLE BACKFEEI ONS: RRENT PROTECTION= INVERTER O/P I X CO >PV BREAKER = 30A EED 40A =>30A PV BREAKER TERCONNECTION MEETS THE 705.12(I RIAL:COPPER & TEMPERATURE RATING:90°C CORRECTED AMPACITY CALCULATION</td> <td>SOLAREL OPTIMIZI</td>	N DG221URB PV EATON 011 EM AC DISCONNECT 4T,A RING CH NON FUSED W/ISOLATI LE OPEN 30A, REVENUE N 40V, 2P NEUTRAL DUIT SCHEDULE NONE N-2 NONE N-2 (1) 8 AWG THHN/THV G EQUATIONS>> A)(1) X Isc(A) X #OF A)(1) X 125% PER TAG TEMPERATURE DERATE	M 600V, 125A TYPE, FORM 2S LG ED NEUTRAL PV (F METER (1) 10 AWG (1) 10 AWG (1) 10 AWG VN-2 (1) 10 AWG ELECTRICAL	OAD RATED DC DISCONNECT & A RAPID SHUTDOWN COMPLIANCE) DUND BARE COPPER THHN/THWN-2 THHN/THWN-2 THHN/THWN-2 CALCULATIONS DC WIRE CALCULAT UIRED CONDUCTOR AMPACITY	: PANEL RATIN RULE: (200A CALCULATI TER OVERCU 25=26.25A= VABLE BACKF DESIGNED IN	G:200A, MAIN BREAKER RATING:200A X1.2)-200A=40A =>ALLOWABLE BACKFEEI ONS: RRENT PROTECTION= INVERTER O/P I X CO >PV BREAKER = 30A EED 40A =>30A PV BREAKER TERCONNECTION MEETS THE 705.12(I RIAL:COPPER & TEMPERATURE RATING:90°C CORRECTED AMPACITY CALCULATION	SOLAREL OPTIMIZI
1 2 3 DC WIRE S • REQUIRED PARALLEL 690.8(B)(• CORRECTI FACTOR X • DERATED	CONDUIT SIZE NONE 3/4"EMT OR EQU 3/4"EMT OR EQU 3/4"EMT OR EQU 2)(a)=MAX CURRE ED AMPACITY C CONDUIT FILL DE CONDUCTOR AMF	Image: Second system Image: Second system Image: Second system Image: System Image: Second system System	N DG221URB PV EATON 011 EM AC DISCONNECT 4T,A RING CH NON FUSED W/ISOLATI LE OPEN 30A, REVENUE N 40V, 2P NEUTRAL DUIT SCHEDULE NONE N-2 NONE N-2 (1) 8 AWG THHN/THV G EQUATIONS>> A)(1) X ISC(A) X #OF A)(1) X ISC(A) X #OF TAG TEMPERATURE DERATE 1 AMPACITY 2	M 6 600v, 125A TYPE, FORM 2S ED NEUTRAL PV (F 10 GRC (1) 10 AWG (1) 10 AWG	OAD RATED DC DISCONNECT & A CAD RATED DC DISCONNECT & A RAPID SHUTDOWN COMPLIANCE) DUND BARE COPPER THHN/THWN-2 THHN/THWN-2 THHN/THWN-2 CALCULATIONS DC WIRE CALCULAT UIRED CONDUCTOR AMPACITY 1 = 15 X 1.	: PANEL RATIN RULE: (200A CALCULATI TER OVERCU 25=26.25A= VABLE BACKF DESIGNED IN	G:200A, MAIN BREAKER RATING:200A X1.2)-200A=40A =>ALLOWABLE BACKFEET ONS: RRENT PROTECTION= INVERTER O/P I X CO >>PV BREAKER = 30A EED 40A =>30A PV BREAKER TERCONNECTION MEETS THE 705.12(I RIAL:COPPER & TEMPERATURE RATING:90°(CORRECTED AMPACITY CALCULATION A 40 X 0.71 X 0.8 = 22.72/	SOLAREE OPTIMIZI
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		ELECTRIC	AL NOTES	
		SHALL BE LISTE RESISTANT PER NEC 2.CONDUCTORS E LOCATIONS SHALL E IN WET LOCATIONS F 3.MAXIMUM DC/AC V BE NO MORE THAN 2' 4.ALL CONDUCTORS UNLESS OTHERWISE 5.BREAKER/FUSE SI NEC 240.6 CODE SEC 6.AC GROUND CONDUCTOR SIZED F 7.AMBIENT TEMPER FACTOR IS BASED ON 8.AMBIENT TEMPER FACTOR IS BASED ON 9.MAX. SYSTEM VOL PER NEC 690.7.	XPOSED TO WET SE SUITABLE FOR USE PER NEC 310.10(C). /OLTAGE DROP SHALL %. SHALL BE IN CONDUIT NOTED. ZES CONFORMS TO TION. ING ELECTRODE PER NEC 250.66. ATURE CORRECTION N NEC 690.31(C). ATURE ADJUSTMENT N NEC 310.15(B)(2). TAGE CORRECTION IS RE SIZED PER WIRE	
	RED F 10 MODULES 10 MODULES	ADDRESS: 525W MESA AZ,85210	TAN ARPOWER 7, BASELINE RD	
AREDGE PC IMIZERS	WER	CUSTOMER II	NFORMATION RERA	
		ADDRESS:576 WORD CHURCH LN, LILLINGTON,NC 27546		
		35.310730, -78.997987 APN: 030-507-021-523		
LOAD(1.2	25)	AHJ:NC- COUNTY HARNETT		
JIREMEN	TS.	UTILITY:CENTRAL EMC		
	AMPACITY CHECK		MINE i	
< <	22.72A 22.72A	SINGLE LIN	E DIAGRAM	
		DESIGNER /CHECKED BY: VK/SN	PAPER SIZE:17"X11"	
		SCALE:AS NOTED	REV:A	
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	ELECTRIC	AL NOTES	
	SHALL BE LISTI RESISTANT PER NEC 2.CONDUCTORS E LOCATIONS SHALL E IN WET LOCATIONS F 3.MAXIMUM DC/AC V BE NO MORE THAN 2' 4.ALL CONDUCTORS UNLESS OTHERWISE 5.BREAKER/FUSE SI NEC 240.6 CODE SEC 6.AC GROUND CONDUCTOR SIZED F 7.AMBIENT TEMPER FACTOR IS BASED ON 8.AMBIENT TEMPER FACTOR IS BASED ON 9.MAX. SYSTEM VOL PER NEC 690.7.	XPOSED TO WET SE SUITABLE FOR USE PER NEC 310.10(C). /OLTAGE DROP SHALL %. SHALL BE IN CONDUIT NOTED. ZES CONFORMS TO TION. ING ELECTRODE PER NEC 250.66. ATURE CORRECTION NEC 690.31(C). ATURE ADJUSTMENT	
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DDULES WIRED SERIES OF 10 MODULES SERIES OF 10 MODULES	ADDRESS: 525W MESA AZ,85210	, BASELINE RD	
AREDGE POWER IMIZERS	ADDRESS:576 WORD) CHURCH LN,	
	35.310730, -78.9979 APN: 030-507-021-5	87	
D(1.25)	AHJ:NC- COUNTY HAP		
MENTS.	UTILITY:CENTRAL EMC PRN NUMBER: TPS-016754		
IDUCTOR AMPACITY CHECK		Se quality matters	
< 22.72A < 22.72A	THREE LIN	E DIAGRAM	
	DESIGNER /CHECKED BY: VK/SN	PAPER SIZE:17"X11"	
CR AMPACITY CHECK	SCALE:AS NOTED	REV:A	
	DATE:11/21/2020	E-2	





ADDRESS: 525W, BASELINE RD MESA AZ,85210

CUSTOMER INFORMATION

NAME:NANCY M HERRERA

ADDRESS:576 WORD CHURCH LN, LILLINGTON,NC 27546

35.310730, -78.997987 APN: 030-507-021-523

AHJ:NC- COUNTY HARNETT

UTILITY:CENTRAL EMC

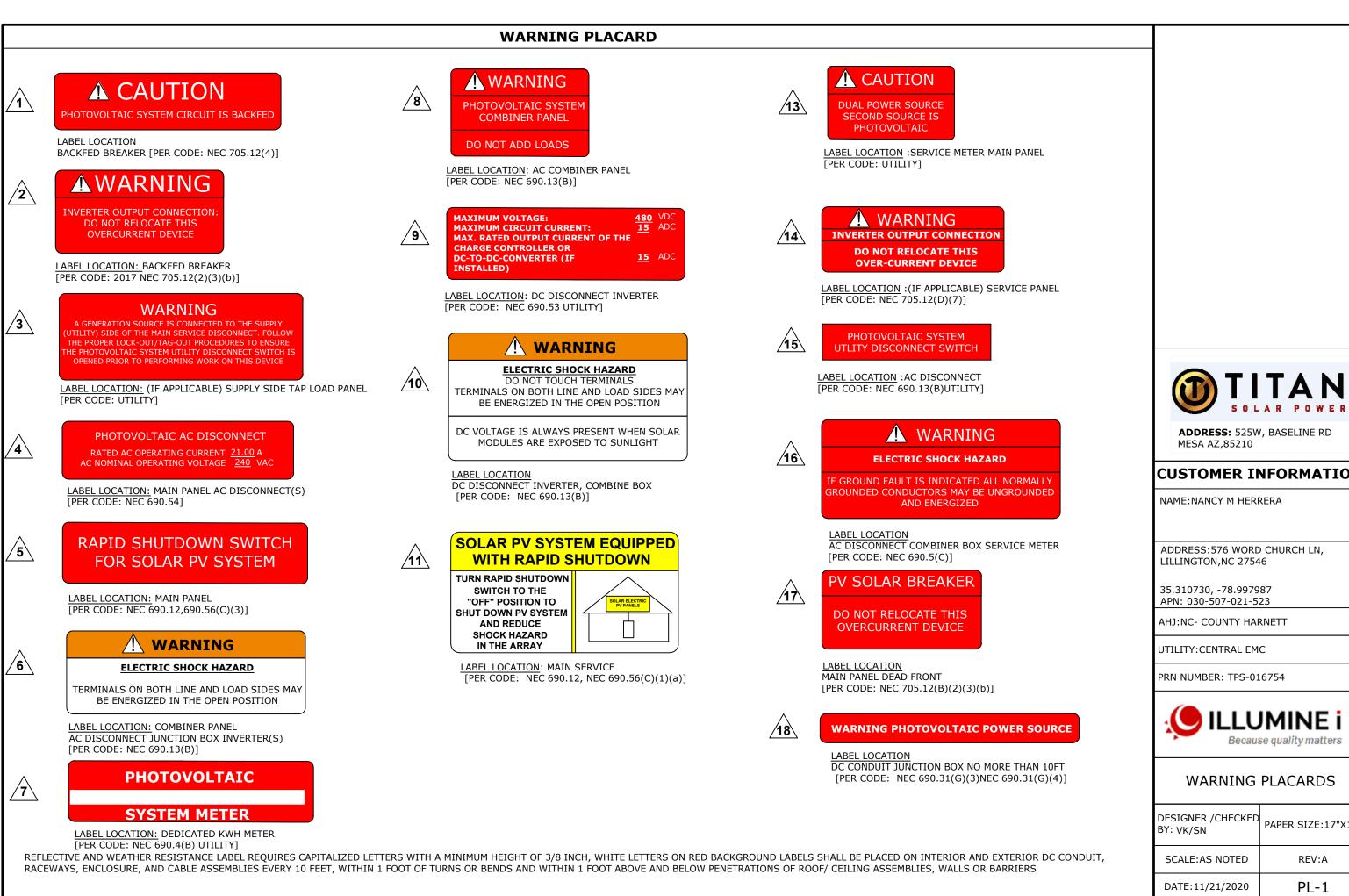
PRN NUMBER: TPS-016754



STRING WIRING DIAGRAM

DESIGNER /CHECKED BY: VK/SN	PAPER SIZE:17"X11"
SCALE:AS NOTED	REV:A

E-3



CUSTOMER INFORMATION

DESIGNER /CHECKED BY: VK/SN	PAPER SIZE:17"X11"
SCALE:AS NOTED	REV:A
DATE:11/21/2020	PL-1

SAFETY PLANS

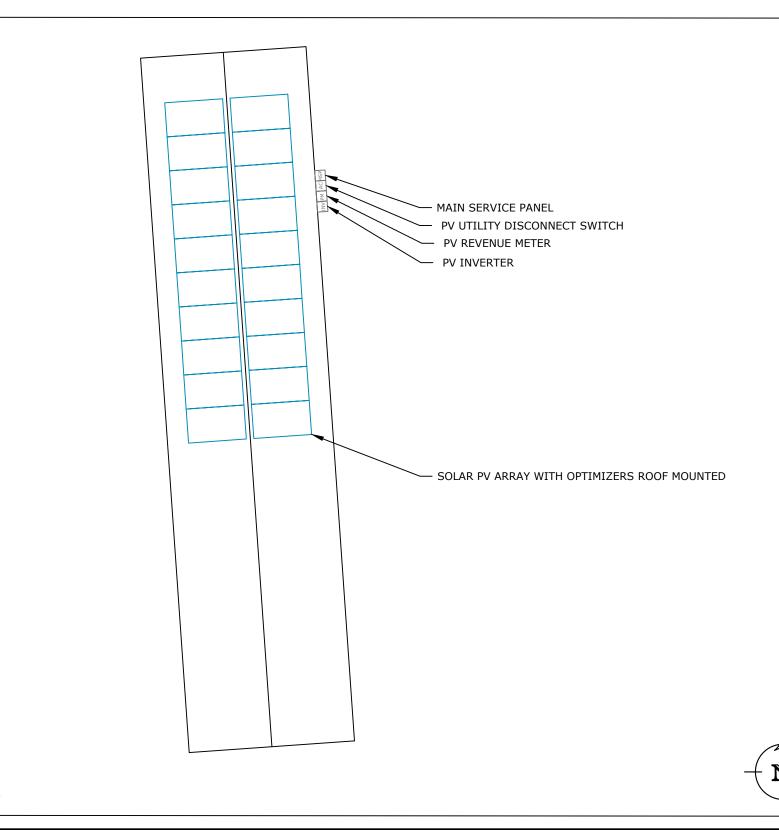
SAFETY PLANS

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:



576 WORD CHURCH LN, LILLINGTON, NC 27546



ADDRESS: 525W, BASELINE RD MESA AZ,85210

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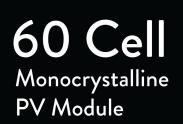


SAFETY PLANS

DESIGNER /CHECKED BY: VK/SN	PAPER SIZE:17"X11"
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DATE:11/21/2020	PL-2

SPEC SHEET

BANKABL





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III BAA / ARRA COMPLIANT

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.

WOULITY MATTERS

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

III DOMESTIC PRODUCTION

SOLAR PAN

INDUSTRY LEADING WARRANTY

workmanship and 30-year performance warranty.

MAXIMUM ENERGY OUTPUT Leveraging over 35+ years of worldwide experience in the solar industry, Silfab is dedicated to

NORTH AMERICAN OUALITY

modules 100% made in North America.

latest in solar innovation.

The Titan Solar Panel is manufactured by Silfab Solar and includes an industry leading 25-year product

superior manufacturing processes and innovations

such as Bifacial and Back Contact technologies, to

ensure our partners, such as Titan Solar have the

Silfab is the leading automated solar module manu-

facturer in North America. Utilizing premium quality materials and strict quality control management to deliver the highest efficiency, premium quality PV

> Silfab Solar manufactures PV modules in two automated locations within North America. 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.

MAESTHETICALLY 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		SIL-340 NL mono PERC			
Test Conditions		STC	NOCT		
Module Power (Pmax)	Wp	340	241		
Maximum power voltage (Vpmax)	V	33.7	30.4		
Maximum power current (Ipmax)	A	10.1	7.9		
Open circuit voltage (Voc)	V	40.9	37.1		
Short circuit current (lsc)	A	10.5	8.3		
Module efficiency	%	20.0	17.7		
Maximum system voltage (VDC)	V	10	000		
Series fuse rating	A		20		
Power Tolerance	Wp	+,	/-3%		
Measurement conditions: STC 1000 W/m2 • AM 1.5 • Temperature 25 °C • I • Sun simulator calibration reference modules from Fraunhofer Institute. Elec					
Temperature Ratings		SIL-340 NL mo	ono PERC		
Temperature Coefficient lsc		0.064 %	/°C		
Temperature Coefficient Voc		-0.28 %/	/°C		
Temperature Coefficient Pmax		-0.36 %/	/°C		
NOCT (± 2°C)		46 °C			
Operating temperature		-40/+85	°C		
Mechanical Properties and Components		SIL-340 NL mo	ono PERC		
Module weight		41 ±0.4	lbs		
Dimensions (H x L x D)		66.9 in x 39.4	in x 1.5 in		
Maximum surface load (wind/snow)*		83.5/112.8	b/ft^2		
Hail impact resistance		ø 1 in at 51.6	5 mph		
Cells		60 - Si mono PERC - 5 bu	sbar, 6.25 x 6.25 Inch		
Glass		0.126 in high transmittance, tempered, 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, mi	ulti-layer dielectric film, fluorine-free PV ba		
Frame		Anodized Aluminum (Black)			
Bypass diodes	3 dia	3 diodes-30SQ045T (45V max DC blocking voltage, 30A max forward rectified current)			
Junction Box		UL 3730 Certified, IEC 6279	UL 3730 Certified, IEC 62790 Certified, IP67 rated		
Warranties		SIL-340 NL ma	ono PERC		
Module product workmanship warranty		25 years	s**		
Linear power performance guarantee	0740	30 years			
	≥ 97.1% end		≥ 85.1% end 25 th year ≥ 82.6% end 30 ^t		
Certifications		SIL-340 NL ma			
Product		ULC ORD C1703, UL1703, CEC listed***, UL 61215-1/-1-1/-2, UL 61730-1/-2, IEC 61215-1/-1-1/-2 IEC 61730-1/-2*** CSA C22 2#61730-1/-2*** IEC 62716 Ammonia Correction: IEC 61701:201			
Floudet	120 01/3	IEC 61730-1/-2***, CSA C22.2#61730-1/-2***, IEC 62716 Ammonia Corrosion; IEC61701:20 Salt Mist Corrosion Certifed, UL Fire Rating: Type 2			
Factory		ISO9001:			
Modules Per Pallet: 26					

Modules Per Truck: 936

* Warning. Read the Safety and Installation Manual for mounting specifications and before handling, installing and operating modules. **12 year extendable to 25 years subject to registration and condi-tions outlined under "Warranty" at www.silfabsolar.com. ***September 2020 expected completion date. PAN files generated from 3rd party performance data are available for download at: www.silfabsolar.com/downloads

	7x12 (x4)	
	Mounting Hole	47 24"/1200mm
cĹ	(uuuge): J.S. U Grounding Hole	1.
7.87*(200mm)	Grounding Hote Drawing 38.11"(96i 39.37"(100	Bmm

Drainage (x8)



240 Courtneypark Drive East Mississauga ON L5T 2Y3 Canada Tel +1 905-255-2501 | Fax +1 905-696-0267 info@silfabsolar.com www.silfabsolar.com Silfab Solar Inc.

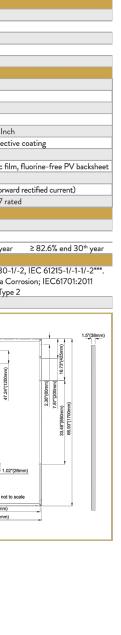
800 Cornwall Ave Bellingham WA 98225 USA Tel +1 360-569-4733

Titan Solar Power 525 W Baseline Rd

litansolarpower.com

info@titansolarpowe

Silfab Solar Inc.





ADDRESS: 525W, BASELINE RD MESA AZ,85210

CUSTOMER INFORMATION

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35.310730, -78.997987 APN: 030-507-021-523

AHJ:NC- COUNTY HARNETT

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MODULE SPEC SHEET

DESIGNER /CHECKED BY: VK/SN	PAPER SIZE:17"X11"
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DATE:11/21/2020

REV:A

SS-1

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
- I 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

solaredge.com

- / Specifically designed to work with power optimizers / UL1741 SA certified, for CPUC Rule 21 grid compliance
 - Small, lightweight, and easy to install both outdoors or indoors
 - I Built-in module-level monitoring
 - Øptional: 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			
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			
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)	-	~	-	1	-	-			
AC Frequency (Nominal)				59.3 - 60 - 60.5					
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 40							
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				600ka Sensitivity					
Maximum Inverter Efficiency	99			ç	9.2				
CEC Weighted Efficiency		99							
Nighttime Power Consumption				< 2.5					

 $^{\circ 0}$ For other regional settings please contact SolarEdge support $^{\circ 2}$ A higher current source may be used; the inverter will limit its input current to the values stated

NVERT

ERS

US	SE11400H-US	
	11400 @ 240V 10000 @ 208V	VA
	11400 @ 240V 10000 @ 208V	VA
	\checkmark	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



ADDRESS: 525W, BASELINE RD MESA AZ,85210

CUSTOMER INFORMATION

NAME:NANCY M HERRERA

ADDRESS: 576 WORD CHURCH LN, LILLINGTON, NC 27546

35.310730, -78.997987 APN: 030-507-021-523

AHJ:NC- COUNTY HARNETT

UTILITY:CENTRAL EMC

PRN NUMBER: TPS-016754



INVERTER SPEC SHEET

DESIGNER /CHECKED BY: VK/SN	PAPER SIZE:17"X11"
SCALE:AS NOTED	REV:A
DATE:11/21/2020	SS-2

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

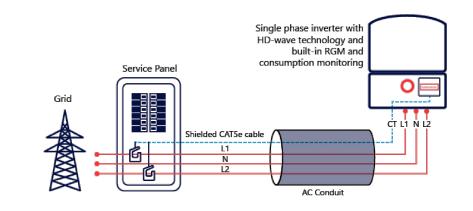
SE3000H-US / SE3800H-US / SE5000H-US / SE6000H-US/ SE7600H-US / SE10000H-US / SE11400H-US

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-l	Fi Access Point for Lo	ocal Connection		
Rapid Shutdown - NEC 2014 and 2017 690.12	Automatic Rapid Shutdown upon AC Grid Disconnect							
STANDARD COMPLIANCE								
Safety	UL1741, UL1741 SA, UL1699B, CSA C22.2, Canadian AFCI according to T.I.L. M-07							
Grid Connection Standards			IEE	E1547, Rule 21, Rule 1	I4 (HI)			
Emissions				FCC Part 15 Class E	3			
INSTALLATION SPECIFICA	TIONS							
AC Output Conduit Size / AWG Range		1''	' Maximum / 14-6 AV	/G		1" Maximum	n /14-4 AWG	
DC Input Conduit Size / # of Strings / AWG Range		1'' Maxir	mum / 1-2 strings / 14	1-6 AWG		1" Maximum / 1-3	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	<u></u> ו			
Operating Temperature Range			-2	10 to +140 / -40 to +	60(4)			°F/°C
Protection Rating			NEMA 4	4X (Inverter with Safe	ety Switch)			

(a) Inverter with Revenue Grade Meter P/N: SExxxXH-US000BNC4; Inverter with Revenue Grade Production and Consumption Meter P/N: SExxxXH-US000BNI4 . For consumption metering, current transformers 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-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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35.310730, -78.997987 APN: 030-507-021-523

AHJ:NC- COUNTY HARNETT

UTILITY:CENTRAL EMC

PRN NUMBER: TPS-016754



RACKING SPEC SHEET

DESIGNER /CHECKED BY: VK/SN	PAPER SIZE:17"X11"
SCALE:AS NOTED	REV:A
DATE:11/21/2020	SS-3

Power Optimizer

For North America P320 / P340 / P370 / P400 / P405 / P485 / P505



POWEROPTIMIZER

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

solaredge.com

- 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

Optimizer model (typical module compatibility)	P320 (for 60-cell modules)	P340 (for high- power 60-cell modules)	P370 (for higher- power 60 and 72- cell modules)	P400 (for 72 & 96-cell modules)	P405 (for high- voltage modules)	P485 (for high- voltage modules)	P505 (for higher current modules)	
INPUT								
Rated Input DC Power®	320	340	370	400	405	485	505	W
Absolute Maximum Input Voltage (Voc at lowest temperature)	4	8	60	80	125¢	2)	83(2)	Vdc
MPPT Operating Range	8 -	48	8 - 60	8 - 80	12.5 - 1	105	12.5 - 83	Vdc
Maximum Short Circuit Current (lsc)		11			10.1		14	Adc
Maximum DC Input Current		13.75			12.5		17.5	Adc
Maximum Efficiency				99.5				%
Weighted Efficiency			ç	98.8			98.6	%
Overvoltage Category								
OUTPUT DURING OPERA	TION (POWER	OPTIMIZER	CONNECTED	TO OPERATIN	IG SOLAREDGE	INVERTER)		
Maximum Output Current				15				Adc
Maximum Output Voltage		(50			85		Vdc
Safety Output Voltage per Power								
Optimizer	-			1 ± 0.1				Vdc
Optimizer STANDARD COMPLIANCI	E		500 D 145 0		15661000 6 2			Vdc
Optimizer STANDARD COMPLIANCI EMC	E			Class B, IEC61000-6-2	-			Vdc
Optimizer STANDARD COMPLIANCI EMC Safety	E		IEC62	lass B, IEC61000-6-2 2109-1 (class II safety)	, UL1741			Vdc
Optimizer STANDARD COMPLIANCI EMC Safety Material	E		IEC62	ilass B, IEC61000-6-2 2109-1 (class II safety) JL94 V-0 , UV Resista	, UL1741			Vdc
Optimizer STANDARD COMPLIANCI EMC Safety Material RoHS			IEC62	lass B, IEC61000-6-2 2109-1 (class II safety)	, UL1741			Vdc
Optimizer STANDARD COMPLIANCI EMC Safety Material RoHS INSTALLATION SPECIFIC/			IEC62	Class B, IEC61000-6-2 2109-1 (class II safety) JL94 V-0 , UV Resista Yes	, UL1741			
Optimizer STANDARD COMPLIANCI EMC Safety Material ROHS INSTALLATION SPECIFIC/ Maximum Allowed System Voltage			IEC62	1ass B, IEC61000-6-2 2109-1 (class II safety) JL94 V-0 , UV Resista Yes 1000	, UL1741 ant			Vdc
Optimizer STANDARD COMPLIANCI EMC Safety Material RoHS INSTALLATION SPECIFIC/ Maximum Allowed System Voltage Compatible inverters	ATIONS	x 153 x 27.5 / 5.1 x 6	IEC62 L All SolarEdge Si	ilass B, IEC61000-6-2 2109-1 (class II safety) JL94 V-0 , UV Resista Yes 1000 ingle Phase and Thre 129 x 153 x 33.5 /	, UL1741 ant	5.1 x 6.3 x 1.9	129 x 162 x 59 / 5 1 x 64 x 2 3	Vdc mm
Optimizer STANDARD COMPLIANCI EMC Safety Material RoHS INSTALLATION SPECIFIC/ Maximum Allowed System Voltage Compatible inverters Dimensions (W x L x H)	ATIONS		IEC62 L All SolarEdge Si	ilass B, IEC61000-6-2 2109-1 (class II safety) JL94 V-0 , UV Resista Yes 1000 ingle Phase and Thre	UL1741 ant e Phase inverters 129 x 159 x 49.5 /		5.1 x 6.4 x 2.3	Vdc mm / in
Optimizer STANDARD COMPLIANCI EMC Safety Material RoHS INSTALLATION SPECIFIC/ Maximum Allowed System Voltage Compatible inverters Dimensions (W x L x H) Weight (including cables)	ATIONS	< 153 x 27.5 / 5.1 x 6 630 / 1.4	IEC62 L All SolarEdge Si	Ilass B, IEC61000-6-2 2109-1 (class II safety) JL94 V-0 , UV Resist Yes 1000 ingle Phase and Thre 129 x 153 x 33.5 / 5.1 x 6 x 1.3	, UL1741 ant ee Phase inverters	1.9 Single or dual		Vdc mm
Optimizer STANDARD COMPLIANCI EMC Safety Material RoHS INSTALLATION SPECIFIC/ Maximum Allowed System Voltage Compatible inverters Dimensions (W x L x H) Weight (including cables) Input Connector	ATIONS		IEC62 L All SolarEdge Si 5 x 1.1	Ilass B, IEC61000-6-2 2109-1 (class II safety) JL94 V-0 , UV Resist Yes 1000 ingle Phase and Thre 129 x 153 x 33.5 / 5.1 x 6 x 1.3	UL1741 ant e Phase inverters 129 x 159 x 49.5 /	1.9	5.1 x 6.4 x 2.3 1064 / 2.3	Vdc mm / in
Optimizer STANDARD COMPLIANCI EMC Safety Material RoHS INSTALLATION SPECIFIC/ Maximum Allowed System Voltage Compatible inverters Dimensions (W x L x H) Weight (including cables) Input Connector Input Wire Length	ATIONS		All SolarEdge Si 5 x 1.1 MC4 ⁽³⁾	Ilass B, IEC61000-6-2 2109-1 (class II safety) JL94 V-0 , UV Resist: Yes 1000 ingle Phase and Thre 129 x 153 x 33.5 / 5.1 x 6 x 1.3 750 / 1.7	UL1741 ant ee Phase inverters 129 x 159 x 49.5 / 845 /	1.9 Single or dual	5.1 x 6.4 x 2.3 1064 / 2.3	Vdc mm / in gr / lk
Optimizer STANDARD COMPLIANCI EMC Safety Material ROHS INSTALLATION SPECIFIC/ Maximum Allowed System Voltage Compatible inverters Dimensions (W x L x H) Weight (including cables) Input Connector Input Wire Length Output Wire Type / Connector	ATIONS	630 / 1.4	All SolarEdge Si 5 x 1.1 MC4 ⁽³⁾	Ilass B, IEC61000-6-2 2109-1 (class II safety) JL94 V-0 , UV Resista Yes 1000 ingle Phase and Thre 129 x 153 x 33.5 / 5.1 x 6 x 1.3 750 / 1.7	UL1741 ant ee Phase inverters 129 x 159 x 49.5 / 845 /	1.9 Single or dual MC4 ⁽³⁾⁽⁴⁾	5.1 x 6.4 x 2.3 1064 / 2.3	Vdc mm / in gr / lk
Optimizer STANDARD COMPLIANCI EMC Safety Material RoHS INSTALLATION SPECIFIC/ 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	ATIONS 129 >	630 / 1.4	IEC62 (All SolarEdge Si 5 x 1.1 MC4 ⁽³⁾ [1.2 / 3.9	Ilass B, IEC61000-6-2 2109-1 (class II safety) JL94 V-0 , UV Resist Yes 1000 ingle Phase and Thre 129 x 153 x 33.5 / 5.1 x 6 x 1.3 750 / 1.7 0.16 / 0.52 Double Insulated / M	UL1741 ant te Phase inverters 129 x 159 x 49.5 / 845 / C4 1.2 / 3	1.9 Single or dual MC4 ⁽³⁾⁽⁴⁾	5.1 x 6.4 x 2.3 1064 / 2.3 MC4 ⁽³⁾	Vdc mm / in gr / lk
Optimizer STANDARD COMPLIANCI EMC Safety Material RoHS INSTALLATION SPECIFIC/ Maximum Allowed System Voltage Compatible inverters Dimensions (W x L x H) Weight (including cables) Input Connector Input Wire Length Output Wire Length Operating Temperature Range ⁽⁵⁾ Protection Rating	ATIONS 129 >	630 / 1.4	IEC62 (All SolarEdge Si 5 x 1.1 MC4 ⁽³⁾ [1.2 / 3.9	Ilass B, IEC61000-6-2 2109-1 (class II safety) JL94 V-0 , UV Resist Yes 1000 ingle Phase and Thre 129 x 153 x 33.5 / 5.1 x 6 x 1.3 750 / 1.7 0.16 / 0.52 Double Insulated / M 1.2 / 3.9	UL1741 ant te Phase inverters 129 x 159 x 49.5 / 845 / C4 1.2 / 3	1.9 Single or dual MC4 ⁽³⁾⁽⁴⁾	5.1 x 6.4 x 2.3 1064 / 2.3 MC4 ⁽³⁾	Vdc mm / in gr / lk m / ft

⁴⁰ NEL. 2017 requires max input voitage be not more than 800
 ⁴⁰ For other connector types please contact SolarEdge
 ⁴⁰ For dual version for parallel connection of two modules use the P485. In the case of an odd number of PV modules in one string, installing one P485 dual version power optimizer
 ⁴⁰ For aubient 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 De a SolarEdge I	esign Using nverter ⁽⁶⁾⁽⁷⁾	Single Phase HD-Wave	Single phase	Three Phase for 208V grid	Three Phase for 277/480V grid	
Minimum String Length	P320, P340, P370, P400	8		10	18	
(Power Optimizers) P405, P485, P505		6		8	14	
Maximum String Length (Power Optimizers)		2	5	25	50(8)	
Maximum Power per String		5700 (6000 with SE7600-US - SE11400- US) 5250		6000 ^(a)	12750(10)	W
Parallel Strings of Different Leng	gths			/ac		

or Orientations

Or Orientation's sizing information refer to: http://www.solaredge.com/sites/default/files/string_sizing_na.pdf
 It is not allowed to mix P405/P485/P505 with P320/P340/P370/P400 in one string
 A string with more than 30 optimizers does not meet NEC rapid shutdown requirements; safety voltage will be above the 30V requirement
 For 2088 rg/id: it is allowed to install up to 6500W per string when the maximum power difference between each string is 1,000W
 For 277/480V grid: it is allowed to install up to 17,550W per string when the maximum power difference between each string is 2,000W

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35.310730, -78.997987 APN: 030-507-021-523

AHJ:NC- COUNTY HARNETT

UTILITY:CENTRAL EMC

PRN NUMBER: TPS-016754



OPTIMIZER SPEC SHEET

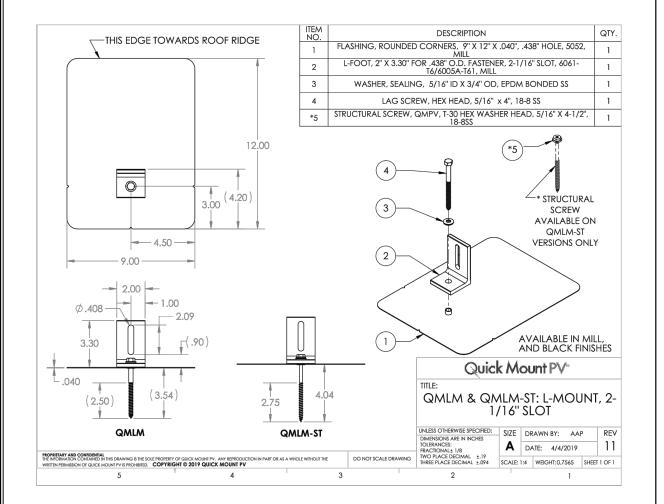
DESIGNER /CHECKED BY: VK/SN	PAPER SIZE:17"X11"
SCALE:AS NOTED	REV:A

SS-4

L-Mount | QMLM / QMLM-ST

Elevated Water Seal Technology®

BI 7.2.3-44



ICK MOUNT PV°

Apr-2019 Rev 6

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 PV products are NOT designed for and should NOT be used to anchor fall protection equipment.

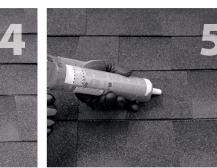


mounts will be placed.



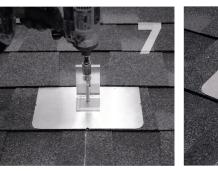
mounted. Select the courses of shingles where bar, just above placement of mount. Remove up so top edge of flashing is at least 3/4" higher nails as required and backfill holes with aproved than the butt-edge of the 3rd course and lower sealant. See "Proper Flashing Placement" on next flashing edge is above the butt-edge of 1st course. page.





If attaching with lag bolt use a 7/32" bit (Lag). Use a Clean off any sawdust, and fill hole with sealant Place L-foot onto elevated flute and rotate L-foot to 1/8" bit (ST) for attaching with the structural screw. compatible with roofing materials.





Prepare lag bolt or structural screw with sealing You are now ready for the rack of your choice. washer. Using a 1/2-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. NOTE: Structural screw can be driven with T-30 hex head bit. BI 7.2.3-44

Drill pilot hole into roof and rafter, taking care to

drill square to the roof. Do not use mount as a drill

guide. Drill a 2" deep hole into rafter.



Follow all the directions of the rack manufacturer sure top of L-Foot makes solid contact with racking.

instructions prior to working on the roof.

Mark center for drilling.



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

Apr-2019 Rev 6



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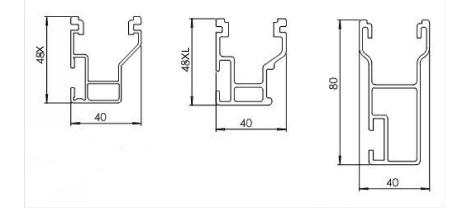
PRN NUMBER: TPS-016754



MOUNT SPEC SHEET

DESIGNER /CHECKED BY: VK/SN	PAPER SIZE:17"X11
SCALE:AS NOTED	REV:A
DATE:11/21/2020	SS-5

SPEC SHEET



Technical data

	CrossRail System
Roof Type	Composition shingle, tile, standing seam
Material	High corrosion resistance stainless steel and high grade aluminum
Flexibility	Modular construction, suitable for any system size, height adjustable
PV Modules	For all common module types
Module Orientation	Portrait and landscape
Roof Attachment	Screw connection into rafter
Structural Validity	IBC compliant, stamped engineering letters available for all solar states
Warranty	25 years

CrossRail 48-X

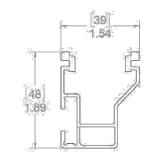


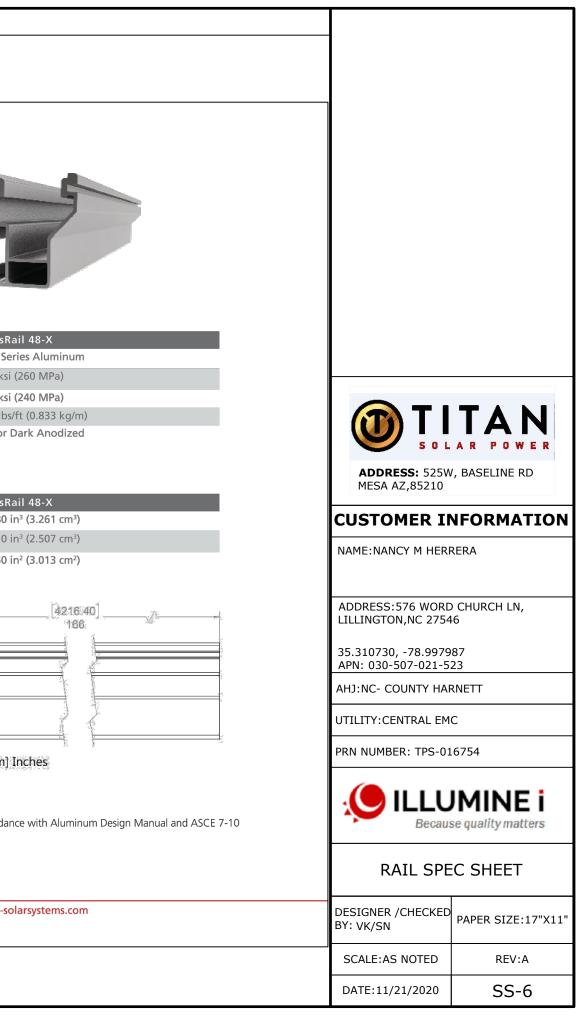
Mechanical Properties

	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

Section Properties

	CrossRail 48-X
Sx	0.1980 in ³ (3.261 cm ³)
Sy	0.1510 in ³ (2.507 cm ³)
A (X-Section)	0.4650 in ² (3.013 cm ²)





Dimensions in [mm] Inches

Notes:

- Structural values and span charts determined in accordance with Aluminum Design Manual and ASCE 7-10
- UL2703 Listed System for Fire and Bonding

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