

FERGUSON RESIDENCE

PHOTOVOLTAIC SYSTEM
64 SYLVAN LANE
CAMERON, NC 28326

SYSTEM SIZE: 10.73 kW-DC | 10.60 kW-AC

MODULE: (29) SIL-370-NX-TITAN

INVERTER: (1) SOLAREEDGE SE7600H-US & (1)
SOLAREEDGESE3000H-US

GOVERNING CODES

ALL MATERIALS, EQUIPMENT, INSTALLATION AND WORK SHALL COMPLY WITH THE FOLLOWING APPLICABLE CODES:

- 2020 NATIONAL ELECTRIC CODE
- 2015 INTERNATIONAL BUILDING CODE
- 2015 INTERNATIONAL RESIDENTIAL CODE
- 2015 INTERNATIONAL PLUMBING CODE
- 2015 INTERNATIONAL FIRE CODE
- 2015 INTERNATIONAL MECHANICAL CODE
- IEEE STANDARD 929
- OSHA 29 CFR 1910.269
- WHERE APPLICABLE, RULES OF THE PUBLIC UTILITIES COMMISSION REGARDING SAFETY AND RELIABILITY
- THE AUTHORITY HAVING JURISDICTION
- MANUFACTURERS' LISTINGS AND INSTALLATION INSTRUCTIONS
- ANY OTHER LOCAL AMENDMENTS

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FERGUSON, CLYDE

64 SYLVAN LANE
CAMERON, NC 28326
(919)721-6599

LICENSE # U.33714



TITAN SOLAR POWER
10815 JOHN PRICE RD.
CHARLOTTE, NC 28273
WWW.TITANSOLARPOWER.COM

COVER PAGE

JOB #: TSP102581
DATE: 11/20/2021
DRAWN BY: AN

REV #1:
REV #2:
REV #3:

PV-1

GENERAL

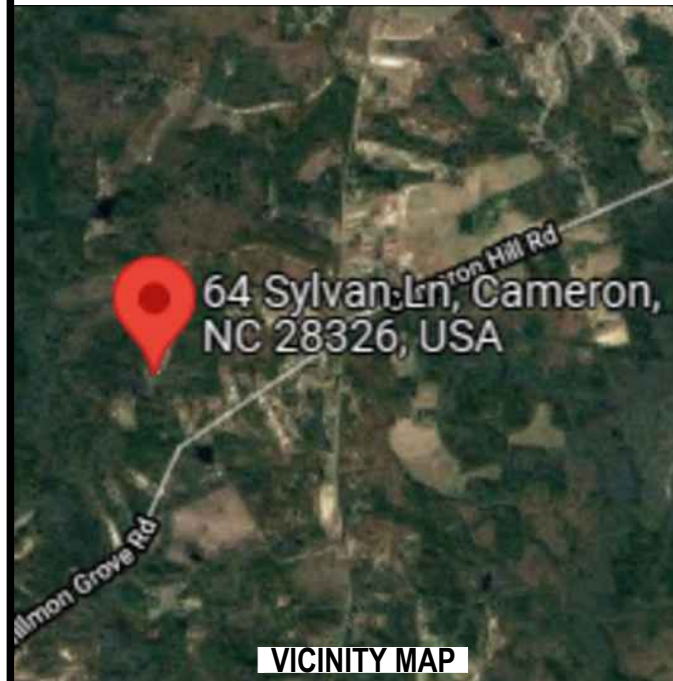
- UTILITY SHALL BE NOTIFIED BEFORE ACTIVATION OF PV SYSTEM.
- 110.2 APPROVAL: ALL ELECTRICAL EQUIPMENT SHALL BE LABELED, LISTED, OR CERTIFIED BY A NATIONALLY RECOGNIZED TESTING LABORATORY ACCREDITED BY THE UNITED STATES OCCUPATIONAL SAFETY HEALTH ADMINISTRATION.
- CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO INITIATING CONSTRUCTION.
- CONTRACTOR SHALL REVIEW ALL MANUFACTURER INSTALLATION DOCUMENTS PRIOR TO INITIATING CONSTRUCTION.
- ALL EQUIPMENT AND ASSOCIATED CONNECTIONS OF INVERTERS, MODULES, PV SOURCE CIRCUITS, BATTERY CONNECTIONS, ETC. AND ALL ASSOCIATED WIRING AND INTERCONNECTIONS SHALL BE INSTALLED ONLY BY QUALIFIED PERSONNEL (CEC 690.4(E)).
- THE CONTRACTOR OR OWNER MUST PROVIDE ROOF ACCESS (LADDER TO ROOF) FOR THE ALL REQUIRED INSPECTIONS. LADDERS MUST BE OSHA APPROVED, MINIMUM TYPE I WITH A 250 LB RATING, IN GOOD CONDITION AND DESIGNED FOR ITS INTENDED USE.
- SMOKE ALARMS AND CARBON MONOXIDE ALARMS ARE REQUIRED TO BE RETROFITTED ONTO THE EXISTING DWELLING AS PER THE 2019 CRC. THESE SMOKE ALARMS ARE REQUIRED TO BE IN ALL BEDROOMS, OUTSIDE EACH BEDROOM, AND AT LEAST ONE ON EACH FLOOR OF THE HOUSE. CARBON MONOXIDE ALARMS ARE REQUIRED TO BE RETROFITTED OUTSIDE EACH BEDROOM AND AT LEAST ONE ON EACH FLOOR OF THE HOUSE. THESE ALARMS MAY BE SOLELY BATTERY OPERATED IF THE PHOTOVOLTAIC PROJECT DOES NOT INVOLVE THE REMOVAL OF INTERIOR WALL AND CEILING FINISHES INSIDE THE HOME; OTHERWISE, THE ALARMS MUST BE HARD WIRED AND INTERCONNECTED. (CRC R314, R315)
- SMOKE AND CARBON MONOXIDE ALARMS ARE REQUIRED PER CRC SECTIONS R314 AND 315 TO BE VERIFIED AND INSPECTED BY THE INSPECTOR IN THE FIELD.
- CONTRACTOR SHALL VERIFY THAT THE ROOF STRUCTURE WILL WITHSTAND THE ADDITIONAL LOADS.

- LAG SCREWS SHALL PENETRATE A MINIMUM 2" INTO SOLID SAWN STRUCTURAL MEMBERS AND SHALL NOT EXCEED MANUFACTURER RECOMMENDATIONS FOR FASTENERS INTO ENGINEERED STRUCTURAL MEMBERS.
- AN ACCESS POINT SHALL BE PROVIDED THAT DOES NOT PLACE THE GROUND LADDER OVER OPENINGS SUCH AS WINDOWS OR DOORS ARE LOCATED AT STRONG POINTS OF BUILDING CONSTRUCTION AND IN LOCATIONS WHERE THE ACCESS POINT DOES NOT CONFLICT WITH OVERHEAD OBSTRUCTIONS SUCH AS TREE LIMBS, WIRES, OR SIGNS. (CRC R331.4.2)
- WHERE DC CONDUCTORS ARE RUN INSIDE BUILDING, THEY SHALL BE CONTAINED IN A METAL RACEWAY; THEY SHALL NOT BE INSTALLED WITHIN 10" OF THE ROOF DECKING OR SHEATHING EXCEPT WHERE COVERED BY THE PV MODULES AND EQUIPMENT. (CEC 690.31(E)(1))
- PLUMBING AND MECHANICAL VENTS THROUGH THE ROOF SHALL NOT BE COVERED BY SOLAR MODULES - NO BUILDING, PLUMBING, OR MECHANICAL VENTS TO BE COVERED, OBSTRUCTED OR ROUTED AROUND SOLAR MODULES.
- ALL FIELD-INSTALLED JUNCTION, PULL, AND OUTLET BOXES LOCATED BEHIND MODULES SHALL BE ACCESSIBLE DIRECTLY OR BY DISPLACEMENT OF A MODULE SECURED BY REMOVABLE FASTENERS.

ELECTRICAL

- WIRING MATERIALS SHALL COMPLY WITH MAXIMUM CONTINUOUS CURRENT OUTPUT AT 25°C AND MAXIMUM VOLTAGE AT 600V; WIRE SHALL BE WET RATED AT 90°C.
- EXPOSED PHOTOVOLTAIC SYSTEM CONDUCTORS ON THE ROOF WILL BE USE-2 OR PV TYPE WIRE.
- PHOTOVOLTAIC SYSTEM CONDUCTORS SHALL BE IDENTIFIED AND GROUPED. THE MEANS OF IDENTIFICATION SHALL BE PERMITTED BY SEPARATE COLOR-CODING, MARKING TAPE, TAGGING OR OTHER APPROVED MEANS
- ALL EXTERIOR CONDUIT, FITTINGS, AND BOXES SHALL BE RAIN-TIGHT AND APPROVED FOR USE IN WET LOCATIONS. (CEC 314.15)
- WHERE CONDUCTORS ARE INSTALLED UNDERGROUND, SECTION 300.5 OF THE CEC MUST BE FOLLOWED TO ENSURE PROPER PROTECTION.

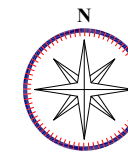
- ALL METALLIC RACEWAYS AND EQUIPMENT SHALL BE BONDED AND ELECTRICALLY CONTINUOUS. (CEC 250.90, 250.96)
- WHERE SIZES OF JUNCTION BOXES, RACEWAYS, AND CONDUITS ARE NOT SPECIFIED, CONTRACTOR SHALL SIZE THEM ACCORDING TO APPLICABLE CODES.
- REMOVAL OF A UTILITY-INTERACTIVE INVERTER OR OTHER EQUIPMENT SHALL NOT DISCONNECT THE BUILDING CONNECTION BETWEEN THE GROUNDING ELECTRODE CONDUCTOR AND THE PV SOURCE AND/OR OUTPUT CIRCUIT GROUNDED CONDUCTOR.
- FOR GROUNDED SYSTEMS, THE PHOTOVOLTAIC SOURCE AND OUTPUT CIRCUITS SHALL BE PROVIDED WITH A GROUND-FAULT PROTECTION DEVICE OR SYSTEM THAT DETECTS A GROUND FAULT, INDICATES THAT FAULT HAS OCCURRED, AND AUTOMATICALLY DISCONNECTS ALL CONDUCTORS OR CAUSES THE INVERTER TO AUTOMATICALLY CEASE SUPPLYING POWER TO OUTPUT CIRCUITS. (CEC 690.35(C))
- FOR UNGROUNDED SYSTEMS, THE INVERTER IS EQUIPPED WITH GROUND FAULT PROTECTION AND A GFI FUSE PORT FOR GROUND FAULT INDICATION.
- PV MODULE FRAMES SHALL BE BONDED TO RACKING RAIL OR BARE COPPER GEC/EGC PER THE MODULE MANUFACTURER'S LISTED INSTRUCTION SHEET.
- PV MODULE RACKING RAIL SHALL BE BONDED TO BARE COPPER G.E.C VIA WEEB LUG, ILSCO GBL-4DBT LAY-IN LUG, OR EQUIVALENT LISTED LUG.
- THE PHOTOVOLTAIC INVERTER WILL BE LISTED AS UL 1741 COMPLIANT.
- RACKING AND BONDING SYSTEM TO BE UL2703 RATED.
- ANY REQUIRED GROUNDING ELECTRODE CONDUCTOR WILL BE CONTINUOUS, EXCEPT FOR SPLICES OR JOINTS AT BUSBARS WITHIN LISTED EQUIPMENT. (CEC 250.64(C))
- WHEN BACKFED BREAKER IS THE METHOD OF UTILITY INTERCONNECTION, THE BREAKERS SHALL NOT READ "LINE AND LOAD".
- WHEN APPLYING THE 120% RULE OF CEC 705.12(D)(2), THE SOLAR BREAKER TO BE POSITIONED AT THE OPPOSITE END OF THE BUS FROM THE MAIN BREAKER.
- THE WORKING CLEARANCE AROUND THE EXISTING ELECTRICAL EQUIPMENT AS WELL AS THE NEW ELECTRICAL EQUIPMENT WILL BE MAINTAINED IN ACCORDANCE WITH CEC 110.26(A)



VICINITY MAP



AERIAL MAP

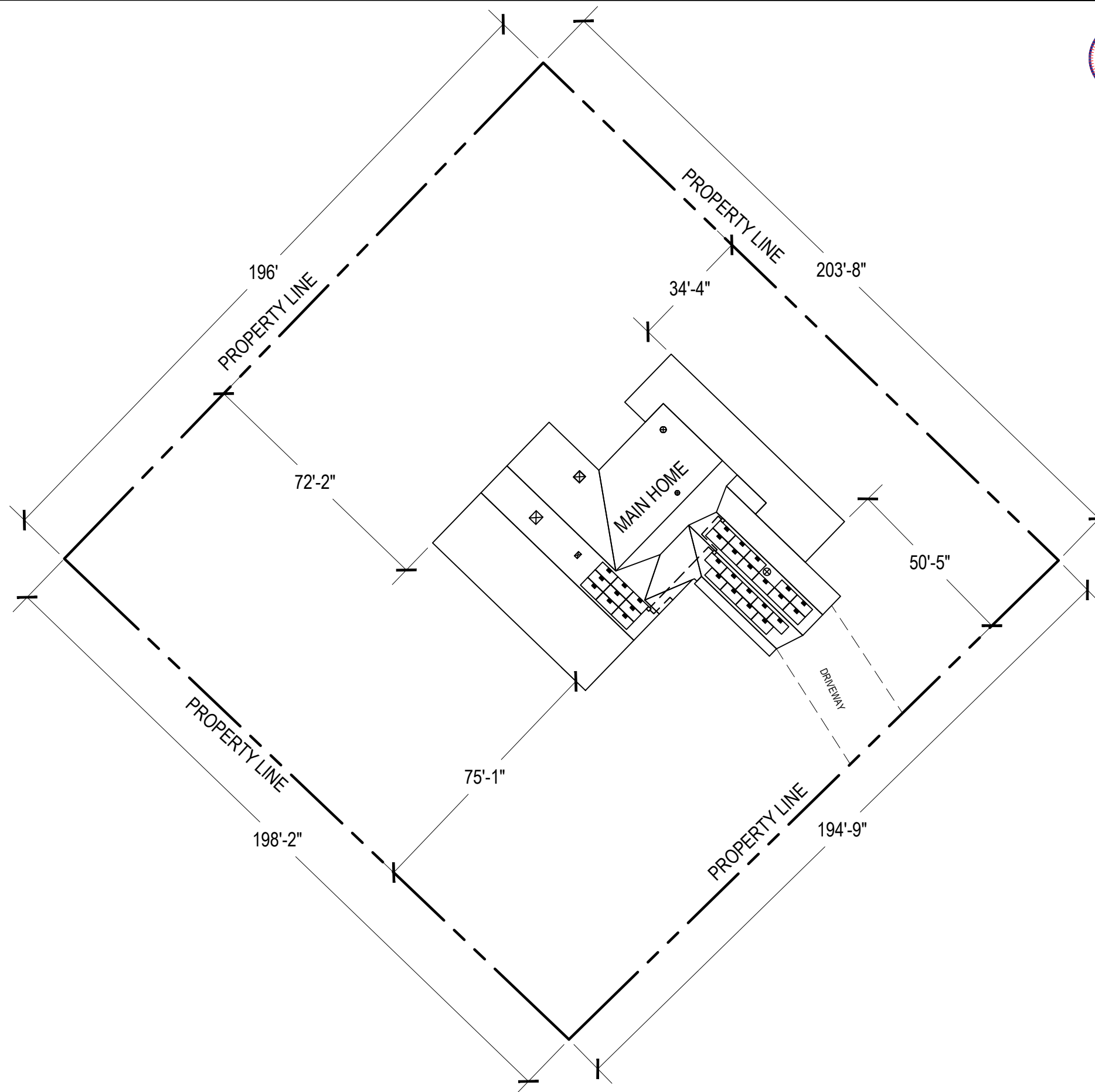


LEGEND:

PROPERTY LINE: — — — — —

DRIVEWAY: - - - - -

APN: 0995540040



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

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


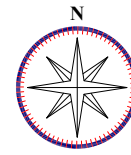
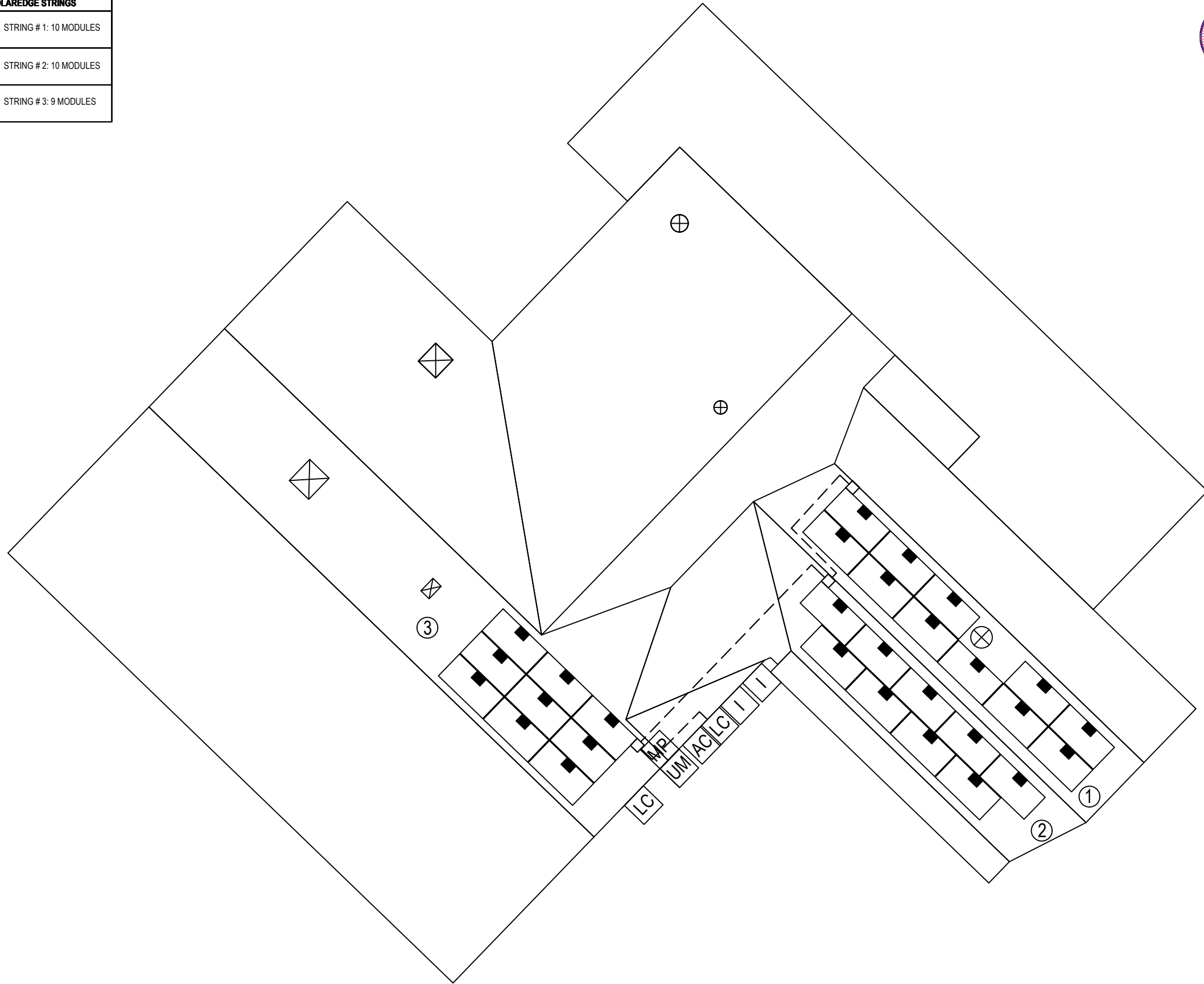
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PROPERTY PLAN

JOB #: TSP102581
DATE: 11/20/2021
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PV-2

ROOF DETAIL	STRING DETAIL
ROOF TYPE: ASPHALT SHINGLE	SOLAREDEGE STRINGS
ROOF SECTION 1: 11 MODULES AZIMUTH: 224° PITCH: 22°	①  STRING # 1: 10 MODULES
ROOF SECTION 2: 9 MODULES AZIMUTH: 224° PITCH: 22°	②  STRING # 2: 10 MODULES
ROOF SECTION 3: 9 MODULES AZIMUTH: 224° PITCH: 22°	③  STRING # 3: 9 MODULES



SYSTEM LEGEND

PHOTOVOLTAIC SYSTEM:
 DC SYSTEM SIZE: 10.73 kW
 AC SYSTEM SIZE: 10.60 kW

-  MAIN SERVICE METER AND SERVICE POINT
-  MAIN SERVICE PANEL
-  UTILITY AC DISCONNECT
-  (1) SOLAREDEGE SE7600H-US INVERTER WITH INTEGRATED DC DISCONNECT
-  (29) SIL-370-NX-TITAN WITH SOLAREDEGE P370 OPTIMIZERS MOUNTED UNDER EACH MODULE.
-  JUNCTION BOX AND CONDUIT

--- CONDUIT RUN
 CONDUIT TO BE RUN IN ATTIC IF POSSIBLE, OTHERWISE CONDUIT BLOCKS MIN. 1"/MAX 6" ABOVE ROOF SURFACE, CLOSE TO RIDGE LINES, AND UNDER EAVES; TO BE PAINTED TO MATCH EXTERIOR/EXISTING BACKGROUND COLOR OF ITS LOCATION; TO BE LABELED AT MAX 10' INTERVALS. CONDUIT RUNS ARE APPROXIMATE AND ARE TO BE DETERMINED IN THE BY THE INSTALLERS

 SOLAR LOAD CENTER

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

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
LICENSE # U.33714

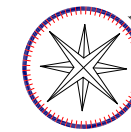


SITE PLAN

JOB #: TSP102581
 DATE: 11/20/2021
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
PV-3

ROOF DETAIL	STRING DETAIL
ROOF TYPE: ASPHALT SHINGLE	SOLAREGE STRINGS
ROOF SECTION 1: 11 MODULES AZIMUTH: 224° PITCH: 22°	①  STRING # 1: 10 MODULES
ROOF SECTION 2: 9 MODULES AZIMUTH: 224° PITCH: 22°	②  STRING # 2: 10 MODULES
ROOF SECTION 3: 9 MODULES AZIMUTH: 224° PITCH: 22°	③  STRING # 3: 9 MODULES

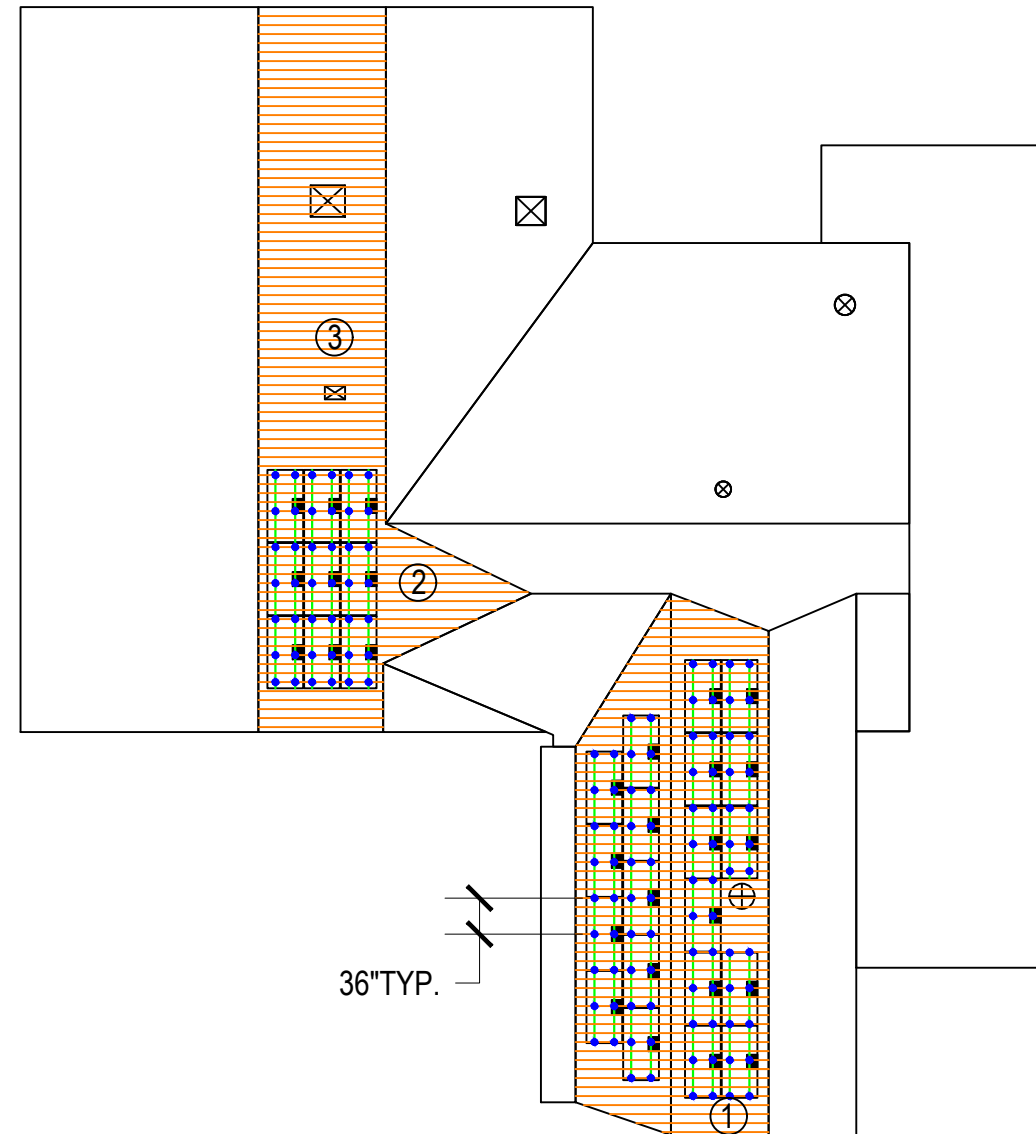


SYSTEM LEGEND

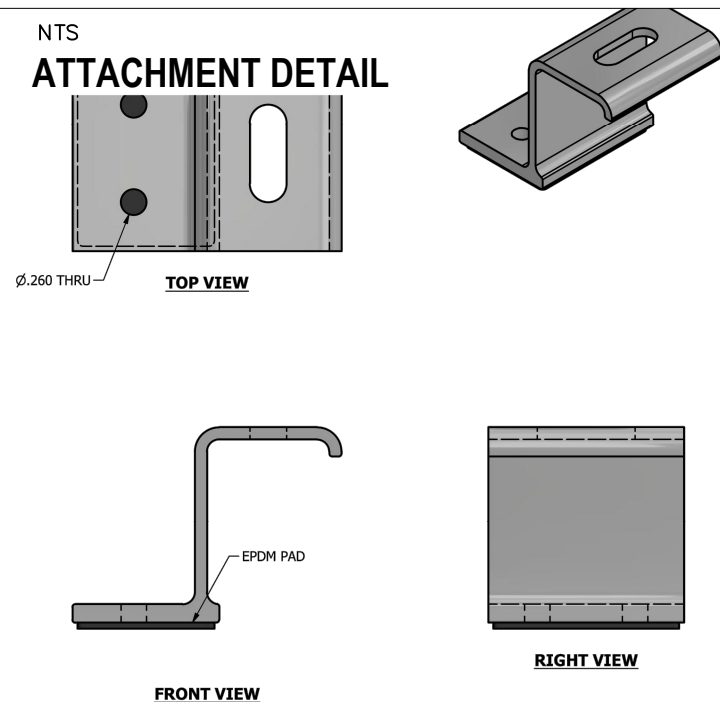
PHOTOVOLTAIC SYSTEM:
DC SYSTEM SIZE: 10.73 kW
AC SYSTEM SIZE: 10.60 kW

-  ROOF ATTACHMENT POINT
-  ROOF FRAMING (RAFTER/TRUSS)
-  RACKING

NOTE:- 2" LAG EMBEDMENT



NTS
ATTACHMENT DETAIL



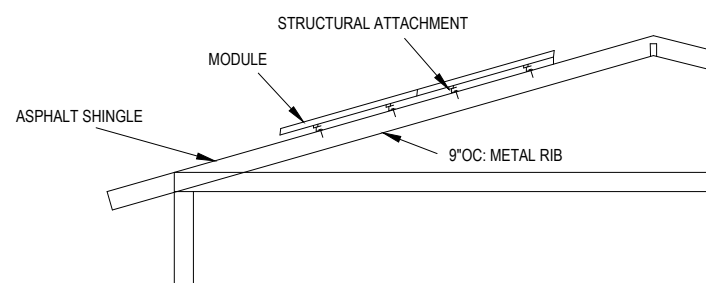
- NOTES:**
- FOR CLARITY THIS DRAWING IS NOT TO SCALE.
 - CONTACT THE MANUFACTURER FOR RECOMMENDED LAYOUTS, SPACING AND ADDITIONAL DETAILS.
 - INSTALLATION MUST BE COMPLETED WITH THE MANUFACTURERS WRITTEN SPECIFICATIONS AND INSTALLATION INSTRUCTIONS.
 - THESE DRAWINGS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

SOLAR CONNECTIONS INTERNATIONAL
THE FUTURE OF SOLAR ATTACHMENTS
4800 METALMASTER WAY - MCHENRY, IL 60050
PHONE: 800.815.7852 WEBSITE: WWW.SOLARCONNECTIONS.COM
FAX: 815.455.4307 EMAIL: INFO@SOLARCONNECTIONS.COM

Z-BRACKET

DRAWN BY:	rtw/ffl	THE INFORMATION HEREIN IS CONFIDENTIAL AND PROPRIETARY AND IS NOT TO BE DISCLOSED OR DELIVERED TO THIRD PARTIES WITHOUT THE PRIOR WRITTEN CONSENT OF SNO GEN, INC.
DATE:	8/28/2019	
SCALE:	N.T.S.	
MATERIAL:		

WIND UPLIFT AT ATTACHMENT POINTS IS PROVIDED WITH THE ENGINEERING LETTER.
SUPPORT LOCATIONS HAVE BEEN OPTIMIZED TO WITHSTAND UPLIFT



NTS
ELEVATION DETAIL

MODULE MECHANICAL SPECIFICATIONS	
DESIGN WIND SPEED	131 MPH
DESIGN SNOW LOAD	10 PSF
# OF STORIES	2
ROOF PITCH	22°
TOTAL ARRAY AREA (SQ. FT)	574.20
TOTAL ROOF AREA (SQ. FT)	5764
ARRAY SQ. FT / TOTAL ROOF SQ. FT	9.96%

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

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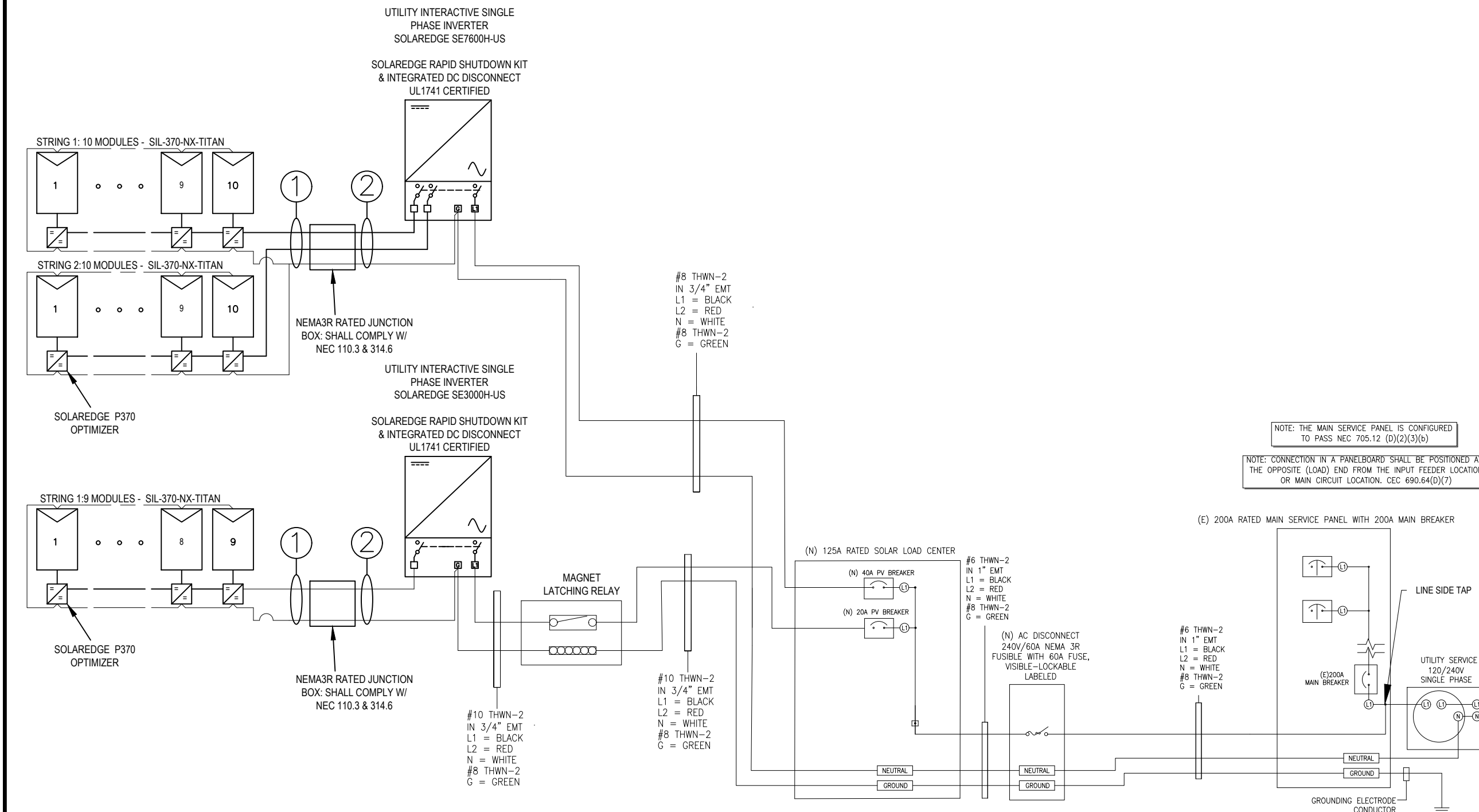
ROOF PLAN

JOB #: TSP102581
DATE: 11/20/2021
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PV-3.1

PHOTOVOLTAIC SYSTEM:
 DC SYSTEM SIZE: 10.730 kW
 AC SYSTEM SIZE: 10.600 kW
 INVERTER: (1) SOLAREEDGE SE7600H-US
 &
 (1) SOLAREEDGE SE3000H-US
 MODULE: (29) SIL-370-NX-TITAN

- NOTES:**
1. MODULES ARE BONDED TO RAIL USING UL 2703 RATED BONDING SYSTEM - INTEGRATED BONDING MID-CLAMPS + DIRECT-BURIAL LAY-IN-LUGS; SEE ATTACHED FOR SPECIFICATIONS IF APPLICABLE
 2. PV DC SYSTEM IS UNGROUNDED
 3. PV ARRAY WILL HAVE A GROUNDING ELECTRODE SYSTEM IN COMPLIANCE WITH CEC 250.58 AND 690.47(A)
 4. PV SOURCE, OUTPUT, AND INVERTER INPUT CIRCUIT WIRING METHODS SHALL COMPLY WITH CEC 690.1(G)
 5. BACKFED PV BREAKER WILL BE INSTALLED AT OPPOSITE END OF THE BUS BAR FROM THE MAIN BREAKER. A PERMANENT WARNING LABEL TO BE INSTALLED PER SYSTEM SIGNAGE, PAGE
 6. BARE COPPER IS TRANSITIONED TO THWN-2 VIA IRREVERSIBLE CRIMP; WHEN PRESENT, THE GEC TO BE CONTINUOUS
 7. INVERTER(S) TO BE COMPLIANT WITH UL 1741 SUPPLEMENT A
 8. CONDUIT AND CONDUCTOR SPECIFICATIONS ARE BASED ON MINIMUM CODE REQUIREMENTS AND ARE NOT MEANT TO LIMIT UP-SIZING AS REQUIRED BY FIELD CONDITIONS
 9. CONDUIT AND CONDUCTOR SPECIFICATIONS ARE BASED ON MINIMUM CODE REQUIREMENTS AND ARE NOT MEANT TO LIMIT UPSIZING AS REQUIRED BY FIELD CONDITIONS.



NOTE: THE MAIN SERVICE PANEL IS CONFIGURED TO PASS NEC 705.12 (D)(2)(3)(b)

NOTE: CONNECTION IN A PANELBOARD SHALL BE POSITIONED AT THE OPPOSITE (LOAD) END FROM THE INPUT FEEDER LOCATION OR MAIN CIRCUIT LOCATION. CEC 690.64(D)(7)

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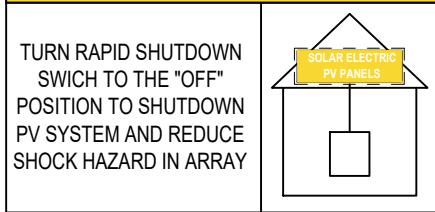
1-LINE DIAGRAM & CALCULATIONS

JOB #: TSP102581
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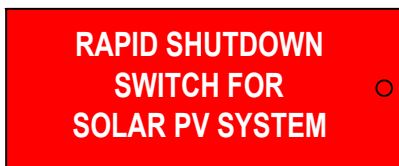
PV-4

PV MODULE ELECTRICAL SPECIFICATIONS		INVERTER ELECTRICAL SPECIFICATIONS		POWER OPTIMIZER ELECTRICAL SPECIFICATIONS		OVER-CURRENT PROTECTION DEVICE (OCPD) CALCULATIONS	
MODULE TYPE	SILFAB SIL-370-NX-TITAN	INVERTER TYPE	SOLAREEDGE SE7600H-US	OPTIMIZER TYPE	SOLAREEDGE P370	INVERTER TYPE	SOLAREEDGE 7600H-US & SOLAREEDGE 3000H-US
POWER MAX (P _{MAX})	370W	MAX INPUT DC VOLTAGE	480V	RATED INPUT DC POWER	370W	# OF INVERTERS	1 & 1
OPEN CIRCUIT VOLTAGE (V _{OC})	44.8V	MAX INPUT CURRENT	20A	MAXIMUM INPUT VOLTAGE (V _{OC})	60V	MAX CONTINUOUS OUTPUT CURRENT	32A & 12.5A
SHORT CIRCUIT CURRENT (I _{SC})	10.6A	NOMINAL DC INPUT VOLTAGE	400V	MAXIMUM SHORT CIRCUIT CURRENT (I _{SC})	11A	(# OF INVERTERS) X (MAX CONT. OUTPUT CURRENT) X 125% <= OCPD RATING	(1 x 44.5A x 1.25) = 55.6A <= 60A, OK
MAX POWER-POINT VOLTAGE (V _{MPP})	37.2V	MAXIMUM DC INPUT CURRENT	13.75A	MAXIMUM DC INPUT CURRENT	13.75A	MAXIMUM OUTPUT CURRENT	15A
MAX POWER-POINT CURRENT (I _{MPP})	10.0A	NOMINAL AC OUTPUT VOLTAGE	240V	MAXIMUM OUTPUT VOLTAGE	60V	MAXIMUM OUTPUT POWER	3000W
SERIES FUSE RATING	20A	MAXIMUM CONT. OUTPUT CURRENT	32A	MINIMUM STRING LENGTH	8	NOMINAL AC OUTPUT VOLTAGE	240V
		CEC EFFICIENCY	99%	MAXIMUM POWER PER STRING	5700W (6000W WITH SE7600-SE11400)	MAXIMUM CONT. OUTPUT CURRENT	12.5A
						CEC EFFICIENCY	99%

SOLAR PV SYSTEM EQUIPPED WITH RAPID SHUTDOWN



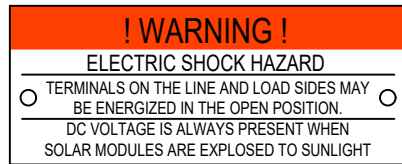
LABEL 1
AT RAPID SHUTDOWN SYSTEM
[NEC 690.56(C)(1)(A)].



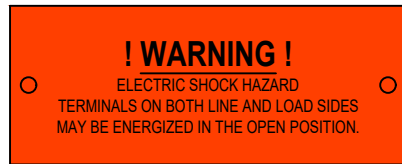
LABEL 6
AT RAPID SHUTDOWN DISCONNECT SWITCH
[NEC 690.56(C)(3)].



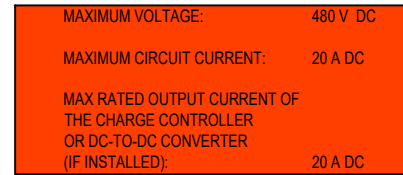
LABEL 11
AT RAPID SHUTDOWN SWITCH
[NEC 690.56(C)].
LETTERS AT LEAST 3/8 INCH; WHITE ON RED BACKGROUND; REFLECTIVE
[IFC 605.11.1.1]



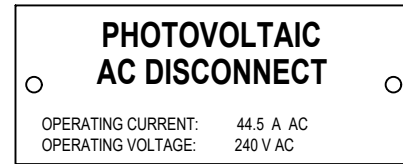
LABEL 2
AT EACH DISCONNECTING MEANS FOR PHOTOVOLTAIC EQUIPMENT
[NEC 690.15]



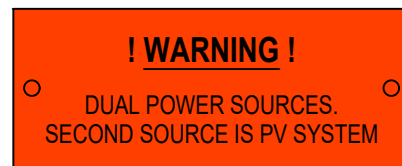
LABEL 3
AT EACH DISCONNECTING MEANS FOR PHOTOVOLTAIC EQUIPMENT
[NEC 690.13 AND 690.15]



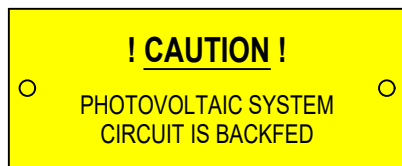
LABEL 4
AT EACH DC DISCONNECTING MEANS
[NEC 690.53]



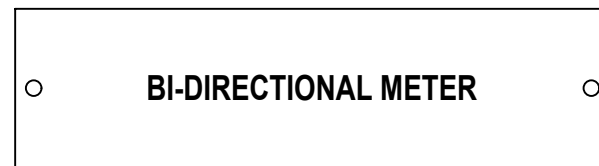
LABEL 5
AT POINT OF INTERCONNECTION, MARKED AT DISCONNECTING MEANS
[NEC 690.54]



LABEL 7
AT POINT OF INTERCONNECTION; LABEL, SUCH AS LABEL 7 OR LABEL 8 MUST IDENTIFY PHOTOVOLTAIC SYSTEM
[NEC 705.12(B)(4)]



LABEL 8
AT POINT OF INTERCONNECTION; LABEL, SUCH AS LABEL 7 OR LABEL 8 MUST IDENTIFY PHOTOVOLTAIC SYSTEM
[NEC 705.12(B)(4)]



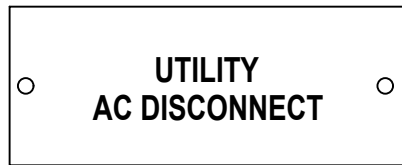
LABEL 9
AT UTILITY METER
[NEC 690.56(B)]



LABEL 10
AT EACH DC DISCONNECTING MEANS
[NEC 690.13(B)]



LABEL 12
AT EXPOSED RACEWAYS, CABLE TRAYS, AND OTHER WIRING METHODS; SPACED AT MAXIMUM 10 FT SECTION OR WHERE SEPARATED BY ENCLOSURES, WALLS, PARTITIONS, CEILINGS, OR FLOORS.
[NEC 690.31(G)]
LETTERS AT LEAST 3/8 INCH; WHITE ON RED BACKGROUND; REFLECTIVE
[IFC 605.11.1.1]



LABEL 13
AT EACH AC DISCONNECTING MEANS
[NEC 690.13(B)]



LABEL 14
AT POINT OF INTERCONNECTION OVERCURRENT DEVICE
[NEC 705.12(B)(2)(3)(B)]



ALL SIGNAGE MUST BE PERMANENTLY ATTACHED AND BE WEATHER RESISTANT/SUNLIGHT RESISTANT AND CANNOT BE HAND-WRITTEN PER NEC 110.21(B)

PERMANENT PLAQUE OR DIRECTORY PROVIDING THE LOCATION OF THE SERVICE DISCONNECTING MEANS AND THE PHOTOVOLTAIC SYSTEM DISCONNECTING MEANS IF NOT IN THE SAME LOCATION
[NEC 690.56(B)]

WHERE THE PV SYSTEMS ARE REMOTELY LOCATED FROM EACH OTHER, A DIRECTORY IN ACCORDANCE WITH 705.10 SHALL BE PROVIDED AT EACH PV SYSTEM DISCONNECTING MEANS.
PV SYSTEM EQUIPMENT AND DISCONNECTING MEANS SHALL NOT BE INSTALLED IN BATHROOMS
[NEC 690.4(D),(E)]

LABELING NOTES

- 1.1 LABELING REQUIREMENTS BASED ON THE 2017 NATIONAL ELECTRICAL CODE, INTERNATIONAL FIRE CODE 605.11, OSHA STANDARD 1910.145, ANSI Z535
- 1.2 MATERIAL BASED ON THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.
- 1.3 LABELS TO BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED.
- 1.4 LABELS TO BE A MINIMUM LETTER HEIGHT OF 3/8" AND PERMANENTLY AFFIXED.
- 1.5 ALERTING WORDS TO BE COLOR CODED. "DANGER" WILL HAVE RED BACKGROUND; "WARNING" WILL HAVE ORANGE BACKGROUND; "CAUTION" WILL HAVE YELLOW BACKGROUND. [ANSI Z535]

LABELS ARE NOT DRAWN TO SCALE

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ELECTRICAL LABELS

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PV-5



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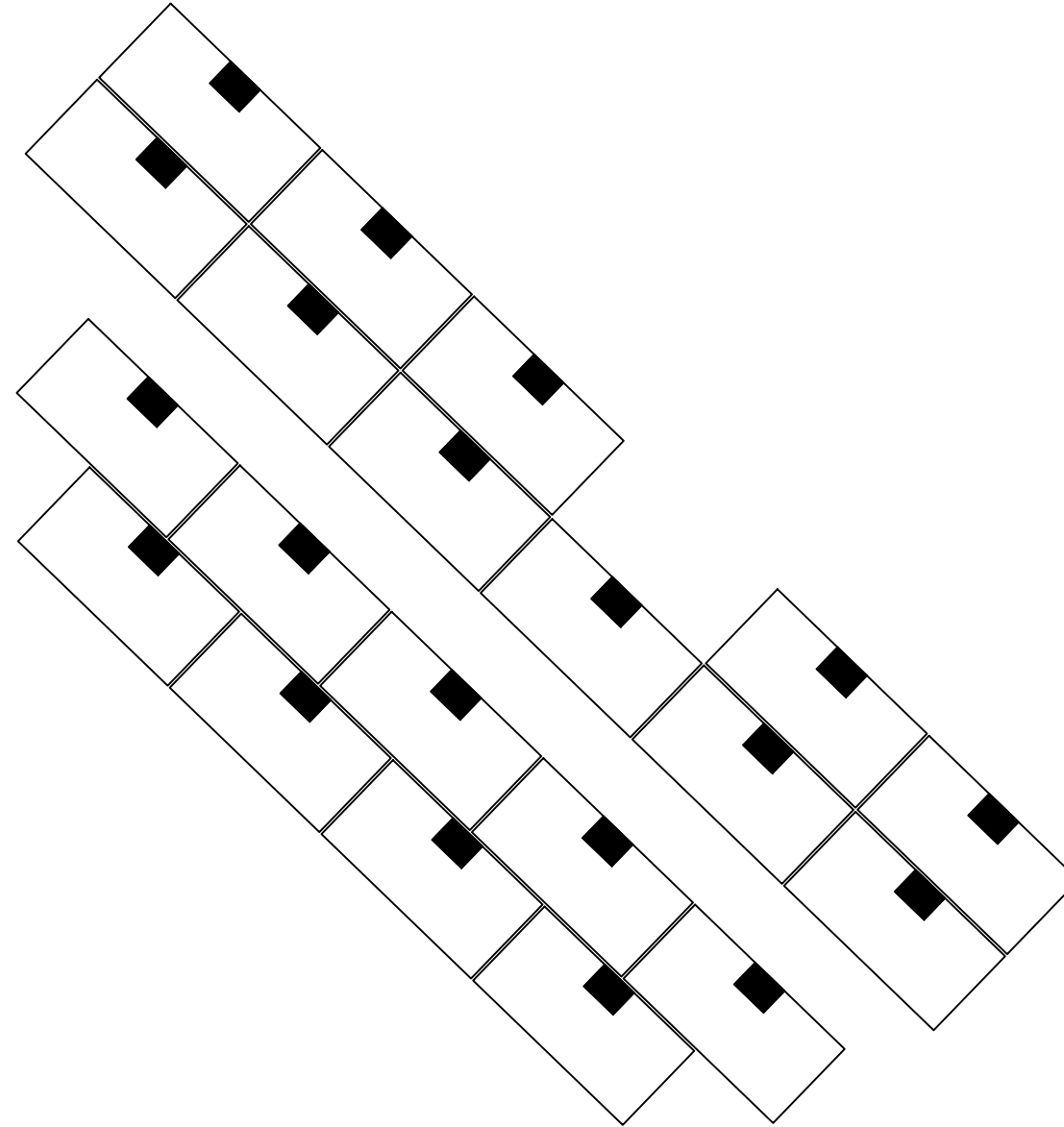
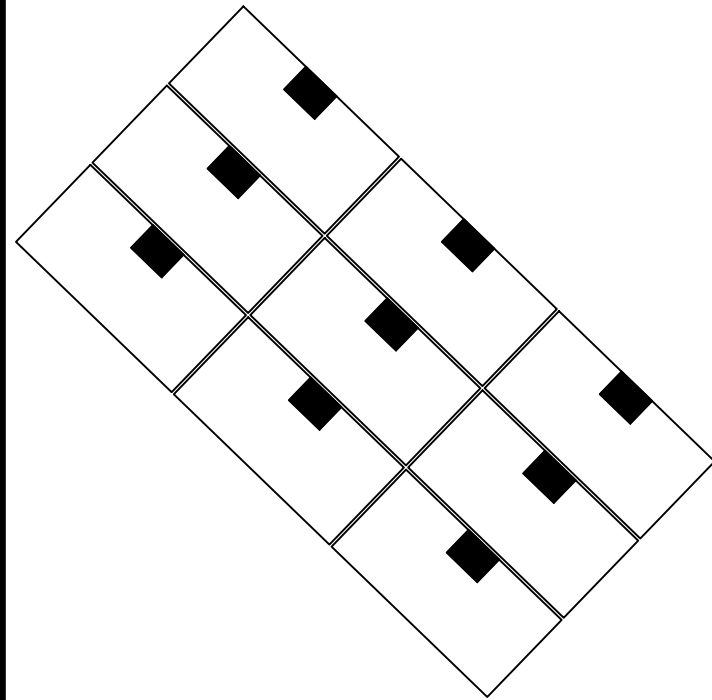
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ELECTRICAL PHOTOS

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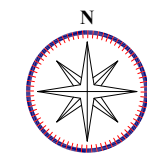
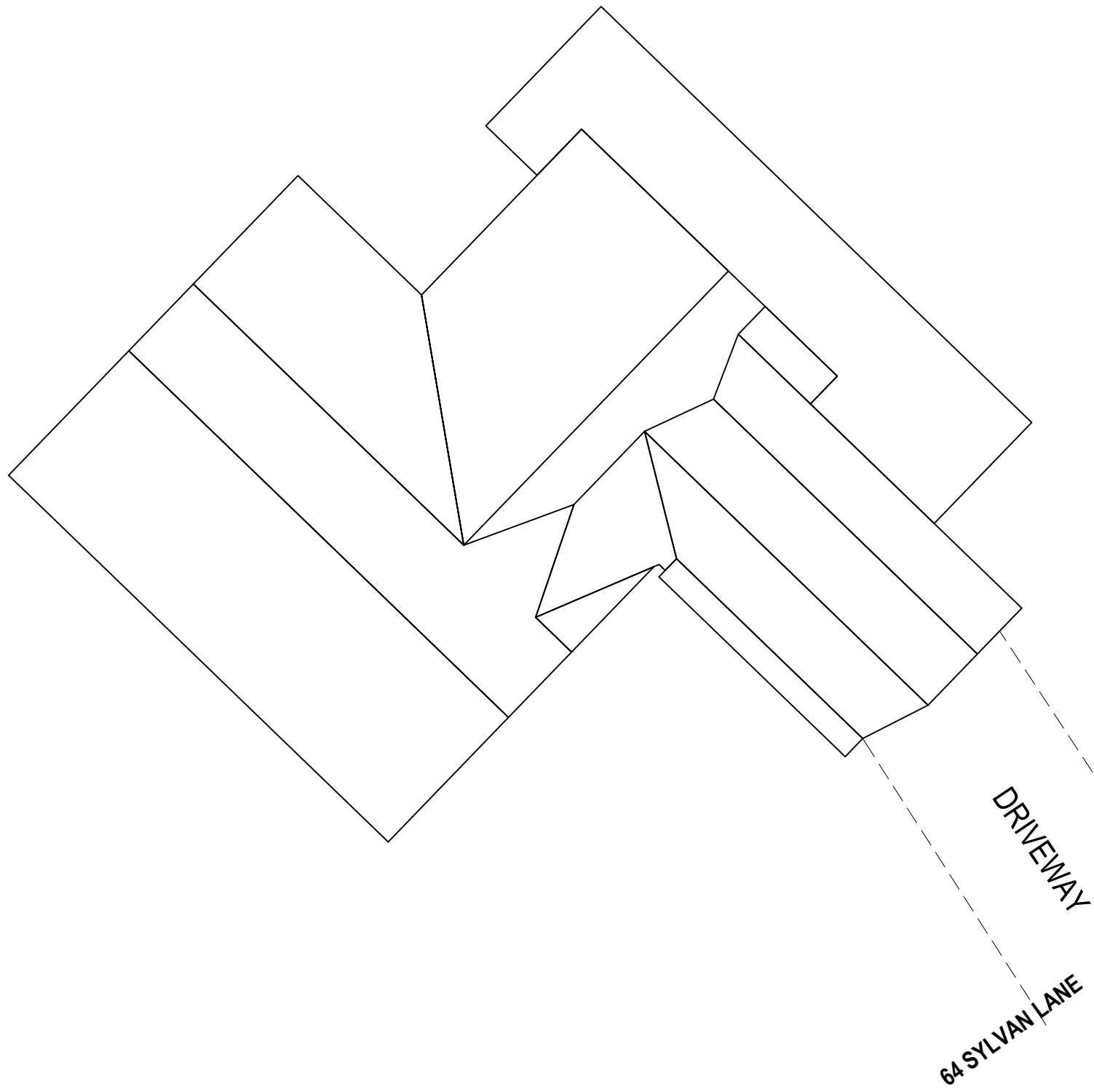
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OPTIMIZER MAP

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FOR INSTALLER USE ONLY



SITE SAFETY CHECKLIST:

1. LADDER LOCATION	
2. RAZ ZONE	
3. TRUCK	
4. ANCHORS	
5. EGRESS ANCHOR (FPU)	
6. WATER LOCATION	
7. ENTRY POINTS TO HOME	
8. ROOF FALL HAZARDS	
9. EMERGENCY GATHERING POINT	

NOTE: INSTALL CREW TO MARK LOCATIONS ON DAY OF CONSTRUCTION

PERSONS COVERED BY THIS JOB SAFETY PLAN

INJURED AT WORK TODAY?
INITIAL YES OR NO

PRINT NAME	INITIAL	YES	NO

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

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SITE SAFETY PLAN

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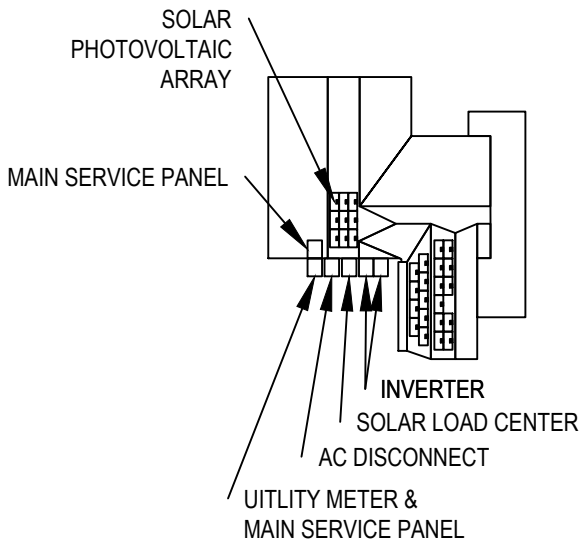


CAUTION



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

SERVICE 1 OF 1



64 SYLVAN LANE, CAMERON, NC 28326



TITAN

SOLAR PANEL

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



CHUBB
* Chubb provides error and omission insurance to Silfab Solar Inc.

SIL-370 NX
POWERED BY
SILFAB SOLAR



INDUSTRY LEADING WARRANTY

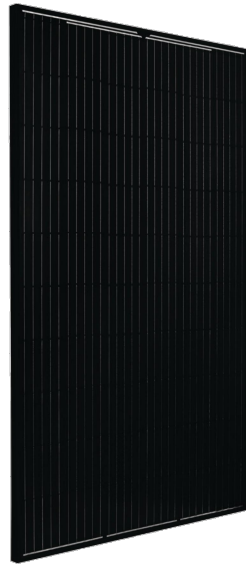
The Titan Solar Panel is manufactured by Silfab Solar and includes an industry leading 25-year product workmanship and 30-year performance warranty.

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.



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.

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.

QUALITY MATTERS

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

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.

AESTHETICALLY PLEASING

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

PID RESISTANT

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

Electrical Specifications		SIL-370 NX mono PERC	
Test Conditions		STC	NOCT
Module Power (Pmax)	Wp	370	266
Maximum power voltage (Vpmax)	V	37.2	33.7
Maximum 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		1000
Series fuse rating	A		20
Power Tolerance	Wp		+/-3%

Measurement conditions: STC 1000 W/m² • AM 1.5 • Temperature 25 °C • NOCT 800 W/m² • AM 1.5 • Measurement uncertainty ≤ 3%
• Sun simulator calibration reference modules from Fraunhofer Institute. Electrical characteristics may vary by ±5% and power by +/-3%.

Temperature Ratings		SIL-370 NX mono PERC	
Temperature Coefficient Isc		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-370 NX mono PERC	
Module weight		44±0.4 lbs	
Dimensions (H x L x D)		72.13 in x 39.4 in x 1.5 in	
Maximum 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 busbar, 62.25 x 62.25 in	
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, MC4 from Staubli	
Backsheet		High durability, superior hydrolysis and UV resistance, multi-layer dielectric film, fluorine-free PV backsheet	
Frame		Anodized Aluminum (Black)	
Bypass diodes		3 diodes-30SQ045T (45V max DC blocking voltage, 30A max forward rectified current)	
Junction Box		UL 3730 Certified, IEC 62790 Certified, IP67 rated	

Warranties		SIL-370 NX mono PERC	
Module product workmanship warranty		25 years**	
Linear power performance guarantee		30 years	
		≥ 97.1% end 1 st year	≥ 91.6% end 12 th year
		≥ 85.1% end 25 th year	≥ 82.6% end 30 th year

Certifications	SIL-370 NX mono PERC
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 Corrosion; IEC61701:2011 Salt Mist Corrosion Certified, UL Fire Rating: Type 2 ISO9001:2015

Factory	SIL-370 NX mono PERC
All states except California	California
Modules Per Pallet: 26	Modules Per Pallet: 26
Pallets Per Truck: 34	Pallets Per Truck: 32
Modules Per Truck: 884	Modules Per Truck: 832

*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 conditions outlined under "Warranty" at www.silfabsolar.com.
***Certification and CEC listing in progress.
PAN files generated from 3rd party performance data are available for download at: www.silfabsolar.com/downloads.



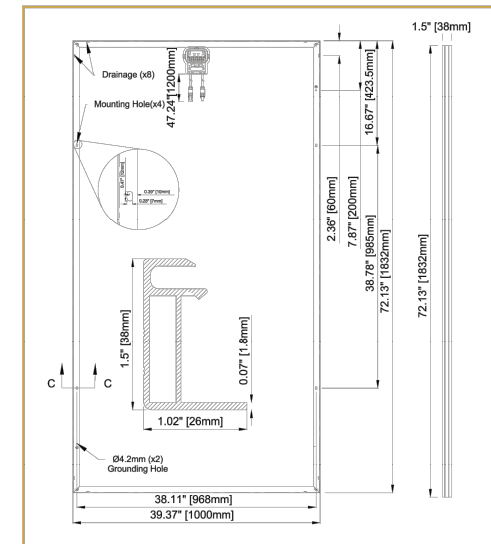
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MODULES DATASHEET

JOB #: TSP102581
DATE: 11/20/2021
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PV-9.1

Single Phase Inverter with HD-Wave Technology for North America

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



12-25
YEAR
WARRANTY

INVERTERS

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
- UL1741 SA certified, for CPUC Rule 21 grid compliance
- Small, lightweight, and easy to install both outdoors or indoors
- Built-in module-level monitoring
- Optional: Faster installations with built-in consumption metering (1% accuracy) and production revenue grade metering (0.5% accuracy, ANSI C12.20)

solaredge.com



Single Phase Inverter with HD-Wave Technology for North America

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

MODEL NUMBER	SE3000H-US	SE3800H-US	SE5000H-US	SE6000H-US	SE7600H-US	SE10000H-US	SE11400H-US	
APPLICABLE TO INVERTERS WITH PART NUMBER	SEXXXXH-XXXXXBXX4							
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 Min.-Nom.-Max. (211 - 240 - 264)	✓	✓	✓	✓	✓	✓	✓	Vac
AC Output Voltage Min.-Nom.-Max. (183 - 208 - 229)	-	✓	-	✓	-	-	✓	Vac
AC Frequency (Nominal)	59.3 - 60 - 60.5 ⁽¹⁾							Hz
Maximum Continuous Output Current @240V	12.5	16	21	25	32	42	47.5	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	380							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	600ka Sensitivity							
Maximum Inverter Efficiency	99	99.2						%
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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INVERTER DATASHEET

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PV-9.2

Power Optimizer

For North America

P320 / P340 / P370 / P400 / P405 / P485 / P505



25
YEAR
WARRANTY

POWEROPTIMIZER

PV power optimization at the module-level

- 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 module-level monitoring
- Meets NEC requirements for arc fault protection (AFCI) and Photovoltaic Rapid Shutdown System (PVRSS)
- Module-level voltage shutdown for installer and firefighter safety

solaredge.com



Power Optimizer For North America

P320 / P340 / P370 / P400 / P405 / P485 / P505

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 ⁽¹⁾	320	340	370	400	405	485	505	W	
Absolute Maximum Input Voltage (Voc at lowest temperature)	48		60	80	125 ⁽²⁾		83 ⁽²⁾	Vdc	
MPPT Operating Range	8 - 48		8 - 60	8 - 80	12.5 - 105		12.5 - 83	Vdc	
Maximum Short Circuit Current (Isc)	11			10.1		14		Adc	
Maximum DC Input Current	13.75			12.5		17.5		Adc	
Maximum Efficiency					99.5			%	
Weighted Efficiency					98.8		98.6	%	
Overtoltage Category	II								
OUTPUT DURING OPERATION (POWER OPTIMIZER CONNECTED TO OPERATING SOLAREEDGE INVERTER)									
Maximum Output Current				15				Adc	
Maximum Output Voltage	60					85		Vdc	
OUTPUT DURING STANDBY (POWER OPTIMIZER DISCONNECTED FROM SOLAREEDGE INVERTER OR SOLAREEDGE INVERTER OFF)									
Safety Output Voltage per Power Optimizer					1 ± 0.1				Vdc
STANDARD COMPLIANCE									
EMC	FCC Part15 Class B, IEC61000-6-2, IEC61000-6-3								
Safety	IEC62109-1 (class II safety), UL1741								
Material	UL94 V-0, UV Resistant								
RoHS	Yes								
INSTALLATION SPECIFICATIONS									
Maximum Allowed System Voltage	1000								Vdc
Compatible inverters	All SolarEdge Single Phase and Three Phase 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 159 x 49.5 / 5.1 x 6.3 x 1.9		129 x 162 x 59 / 5.1 x 6.4 x 2.3		mm / in
Weight (including cables)	630 / 1.4		750 / 1.7		845 / 1.9		1064 / 2.3		gr / lb
Input Connector	MC4 ⁽³⁾				Single or dual MC4 ⁽³⁾⁽⁴⁾		MC4 ⁽³⁾		
Input Wire Length	0.16 / 0.52								m / ft
Output Wire Type / Connector	Double Insulated / MC4								
Output Wire Length	0.9 / 2.95		1.2 / 3.9		1.2 / 3.9		1.2 / 3.9		m / ft
Operating Temperature Range ⁽⁵⁾	-40 - +85 / -40 - +185								°C / °F
Protection Rating	IP68 / NEMA6P								
Relative Humidity	0 - 100								%

⁽¹⁾ Rated power of the module at STC will not exceed the optimizer "Rated Input DC Power". Modules with up to +5% power tolerance are allowed

⁽²⁾ NEC 2017 requires max input voltage be not more than 80V

⁽³⁾ For other connector types please contact SolarEdge

⁽⁴⁾ 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

⁽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 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 (Power Optimizers)	P320, P340, P370, P400	8	10	18	
	P405, P485, P505	6	8	14	
Maximum String Length (Power Optimizers)		25	25	50 ⁽⁸⁾	
Maximum Power per String	5700 (6000 with SE7600-US - SE11400-US)	5250	6000 ⁽⁹⁾	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 P405/P485/P505 with P320/P340/P370/P400 in one string

⁽⁸⁾ A string with more than 30 optimizers does not meet NEC rapid shutdown requirements; safety voltage will be above the 30V requirement

⁽⁹⁾ For 208V grid; it is allowed to install up to 6,500W per string when the maximum power difference between each string is 1,000W

⁽¹⁰⁾ 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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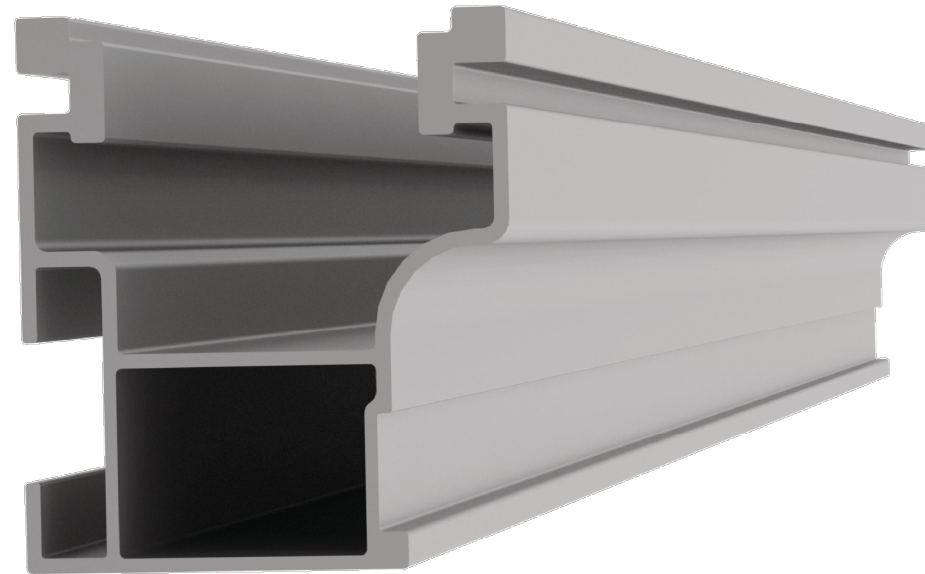
OPTIMIZER DATASHEET

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NEW!



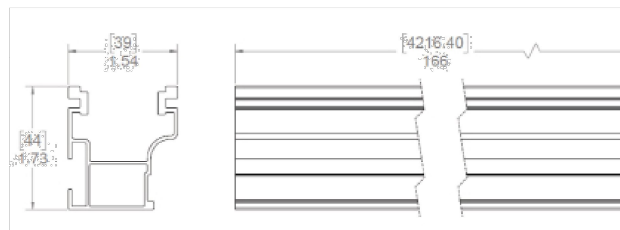
NEW PRODUCT

CrossRail 44-X

- ▶ Optimized rail profile
- ▶ One rail for all markets
- ▶ Built-in wire management
- ▶ Maintains same structural integrity as 48-X
- ▶ Tested up to 200 mph winds
- ▶ Tested up to 100 PSF snow loads



Part Number	Description
4000019	CrossRail 44-X 166", Mill
4000020	CrossRail 44-X 166", Dark
4000021	CrossRail 44-X 180", Mill
4000022	CrossRail 44-X 180", Dark
4000051	RailConn Set, CR 44-X, Mill
4000052	RailConn Set, CR 44-X, Dark
4000067	End Cap, Black, CR 44-X



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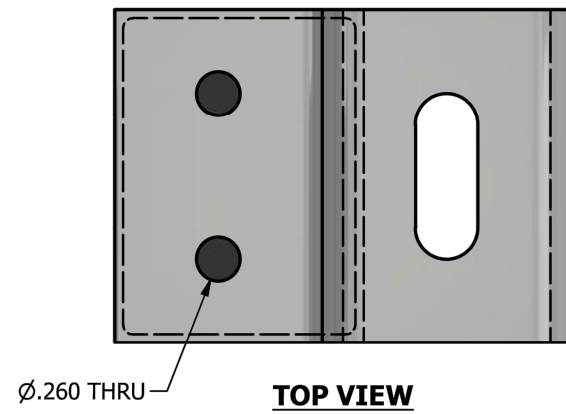
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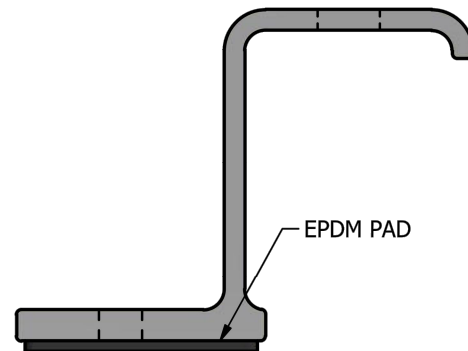
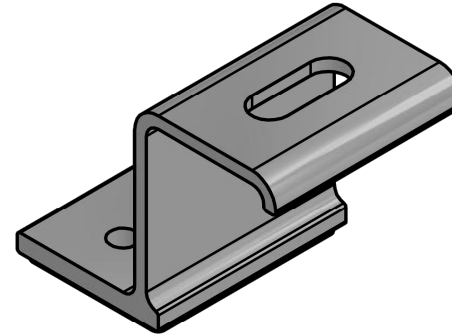
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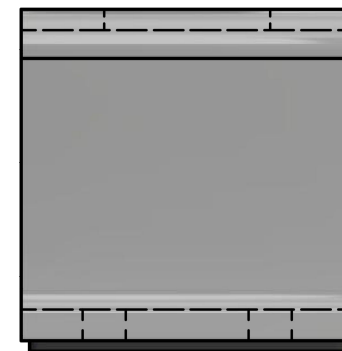
***** SCI PRODUCT CUT SHEET *****



TOP VIEW



FRONT VIEW



RIGHT VIEW

NOTES:

1. FOR CLARITY THIS DRAWING IS NOT TO SCALE.
2. CONTACT THE MANUFACTURER FOR RECOMMENDED LAYOUTS, SPACING AND ADDITIONAL DETAILS.
3. INSTALLATION MUST BE COMPLETED WITH THE MANUFACTURERS WRITTEN SPECIFICATIONS AND INSTALLATION INSTRUCTIONS.
4. THESE DRAWINGS ARE SUBJECT TO CHANGE WITHOUT NOTICE.


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 THE FUTURE OF SOLAR ATTACHMENTS
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 FAX: 815.455.4367 E-MAIL: INFO@SOLARCONNECTIONS.COM

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DATE:	8/28/2019	
SCALE:	N.T.S.	
MATERIAL:		

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MOUNTING DATASHEET

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PV-9.5