

KERN RESIDENCE

PHOTOVOLTAIC SYSTEM

238 WILBUR AVE,
CRANSTON, RI 02921

SYSTEM SIZE: 10.270 kW-DC | 7.600 kW-AC

MODULE: (26) CANADIAN SOLAR CS6R-395MS (395W) MODULES

INVERTER: (1) TESLA 7.6 KW (1538000-XX-Y) INVERTER [240V]

MCI: (9) TESLA PV RAPID SHUTDOWN TSL-1879359-00-X SOLAR MCI-2 1000V



Reviewed and approved
Richard Pantel, P.E.
P.Lic. No. 11237

GOVERNING CODES

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

- 2025 RHODE ISLAND STATE BUILDING CODE (RISBC-2), REFERENCE 2021 INTERNATIONAL BUILDING CODE (IBC)
- 2025 RHODE ISLAND STATE BUILDING CODE (RISBC-2), REFERENCE 2021 INTERNATIONAL RESIDENTIAL CODE (IRC)
- 2024 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)
- 2023 NATIONAL ELECTRICAL CODE (NEC)
- 2021 FIRE CODE, NFPA 1
- 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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SARAH ELIZABETH KERN

238 WILBUR AVE, CRANSTON, RI 02921

AHJ: CRANSTON



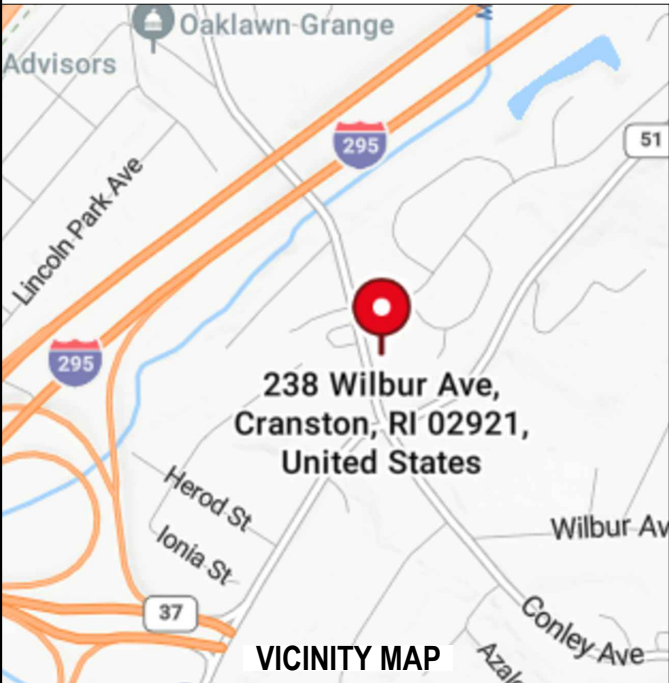
ROOFTOP POWER

275 W NATICK RD SUITE 800, WARWICK,
RI 02886, USA
TEL.NO (833) 787-7697

COVER PAGE

DATE: 7/17/2026
DRAWN BY: ESR

PV-1



VICINITY MAP



AERIAL MAP

GENERAL

1. UTILITY SHALL BE NOTIFIED BEFORE ACTIVATION OF PHOTOVOLTAIC SYSTEM.
2. 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
3. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO INITIATING CONSTRUCTION.
4. CONTRACTOR SHALL REVIEW ALL MANUFACTURER INSTALLATION DOCUMENTS PRIOR TO INITIATING CONSTRUCTION.
5. ALL EQUIPMENT AND ASSOCIATED CONNECTIONS, ETC, AND ALL ASSOCIATED WIRING AND INTERCONNECTIONS SHALL BE INSTALLED ONLY BY QUALIFIED PERSONNEL.
6. THE CONTRACTOR OR OWNER MUST PROVIDE ROOF ACCESS (LADDER TO ROOF) FOR ALL THE REQUIRED INSPECTIONS. LADDERS MUST BE OSHA APPROVED, MINIMUM TYPE I WITH A 250LB. RATING, IN GOOD CONDITION AND DESIGNED FOR ITS INTENDED USE.
7. CONTRACTOR SHALL VERIFY THAT THE ROOF STRUCTURE WILL WITHSTAND THE ADDITIONAL LOADS.
8. LAG SCREWS SHALL PENETRATE A MINIMUM 2.5" EMBEDMENT INTO SOLID SAWN STRUCTURAL MEMBERS AND SHALL NOT EXCEED MANUFACTURER RECOMMENDATIONS FOR FASTENERS INTO ENGINEERED STRUCTURAL MEMBERS.
9. 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.
10. 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.

11. PLUMBING AND MECHANICAL VENTS THROUGH THE ROOF SHALL NOT BE COVERED BY SOLAR MODULES- - NO BUILDING, PLUMBING OR MECHANICAL VENTS TO BE COVERED, CONSTRUCTED OR ROUTED AROUND SOLAR MODULES.

12. 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

1. 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.
2. EXPOSED PHOTOVOLTAIC SYSTEM CONDUCTORS ON THE ROOF WILL BE USE 2 OR PV-TYPE WIRE.
3. 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.
4. ALL EXTERIOR CONDUIT, FITTINGS, AND BOXES SHALL BE RAIN-TIGHT AND APPROVED FOR USE IN WET LOCATIONS.
5. ALL METALLIC RACEWAYS AND EQUIPMENT SHALL BE BONDED AND ELECTRICALLY CONTINUOUS.
6. WHERE SIZES OF JUNCTION BOXES, RACEWAYS, AND CONDUITS ARE NOT SPECIFIED, CONTRACTOR SHALL SIZE THEM ACCORDING TO APPLICABLE CODES.
7. 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.
8. 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.

9. FOR UNGROUNDED SYSTEMS, THE INVERTER IS EQUIPPED WITH GROUND FAULT PROTECTION AND A GFI FUSE PORT FOR GROUND FAULT INDICATION.

10. PV MODULE FRAMES SHALL BE BONDED TO RACKING RAIL OR BARE COPPER GEC/EGC PER THE MODULE MANUFACTURER'S LISTED INSTRUCTION SHEET.

11. PV MODULE RACKING RAIL SHALL BE BONDED TO BARE COPPER GEC VIA WEEB LUG, ILSCO GBL-4DBT LAY-IN LUG, OR EQUIVALENT LISTED LUG.

12. THE PHOTOVOLTAIC INVERTER WILL BE LISTED AS UL 1741 COMPLIANT.

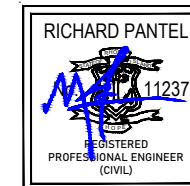
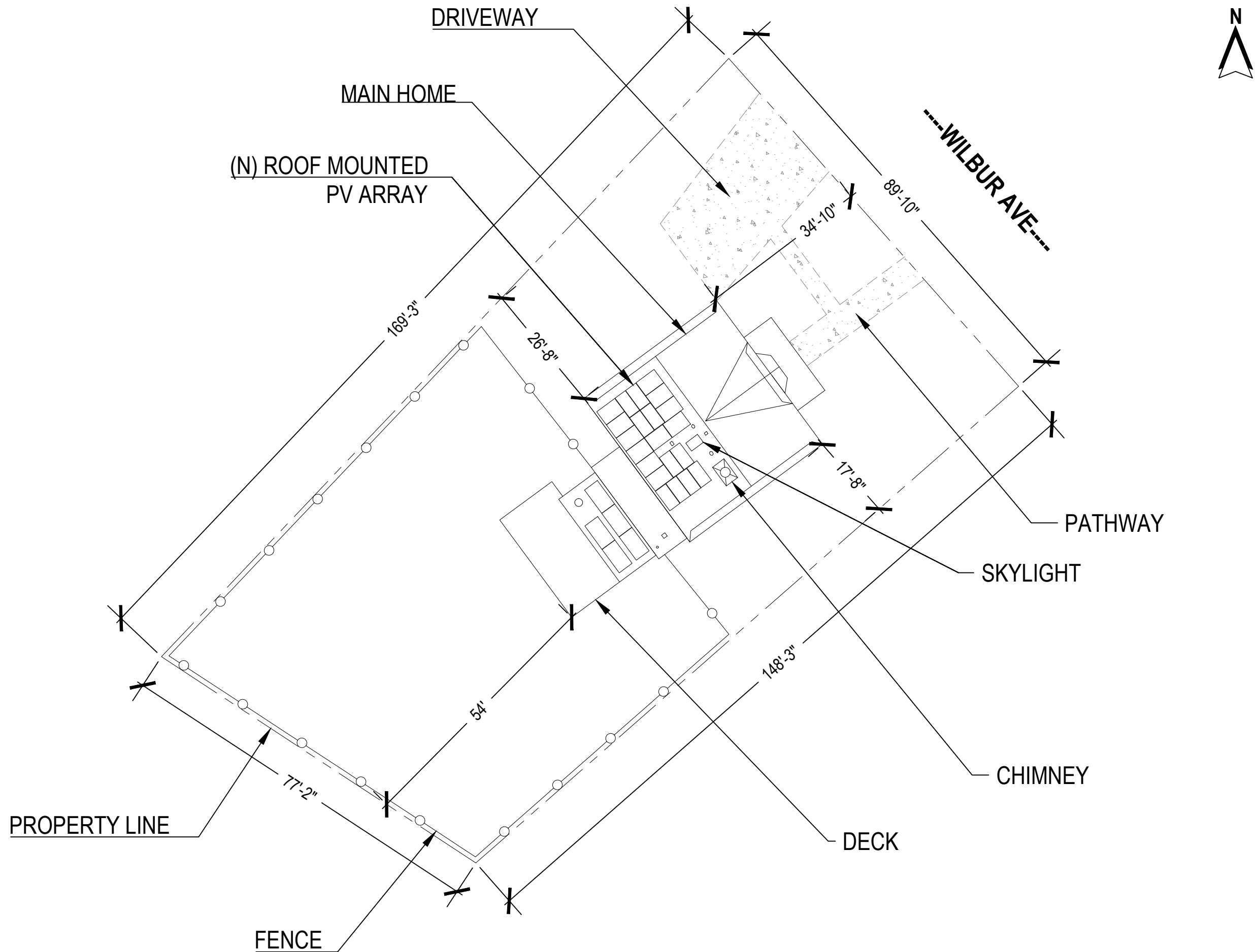
13. RACKING AND BONDING SYSTEM TO BE UL2703 RATED.

14. ANY REQUIRED GROUNDING ELECTRODE CONDUCTOR WILL BE CONTINUOUS, EXCEPT FOR SPLICES OR JOINTS AS BUS BARS WITHIN LISTED EQUIPMENT.

15. WHEN BACKFED BREAKER IS THE METHOD OF UTILITY INTERCONNECTION, THE BREAKERS SHALL NOT READ "LINE AND LOAD".

16. WHEN APPLYING THE 120% RULE, THE SOLAR BREAKER TO BE POSITIONED AT THE OPPOSITE END OF THE BUS BAR FROM THE MAIN BREAKER.

17. THE WORKING CLEARANCE AROUND THE EXISTING ELECTRICAL EQUIPMENT AS WELL AS THE NEW ELECTRICAL EQUIPMENT WILL BE MAINTAINED.



Reviewed and approved
Richard Pantel, P.E.
RI Lic. No. 11237

LEGEND:

PROPERTY LINE: — — — — —

DRIVEWAY: - - - - -

APN: CRANM182L1784U

FENCE: —○—○—○—○—

SCALE: 1/20"=1'-0"

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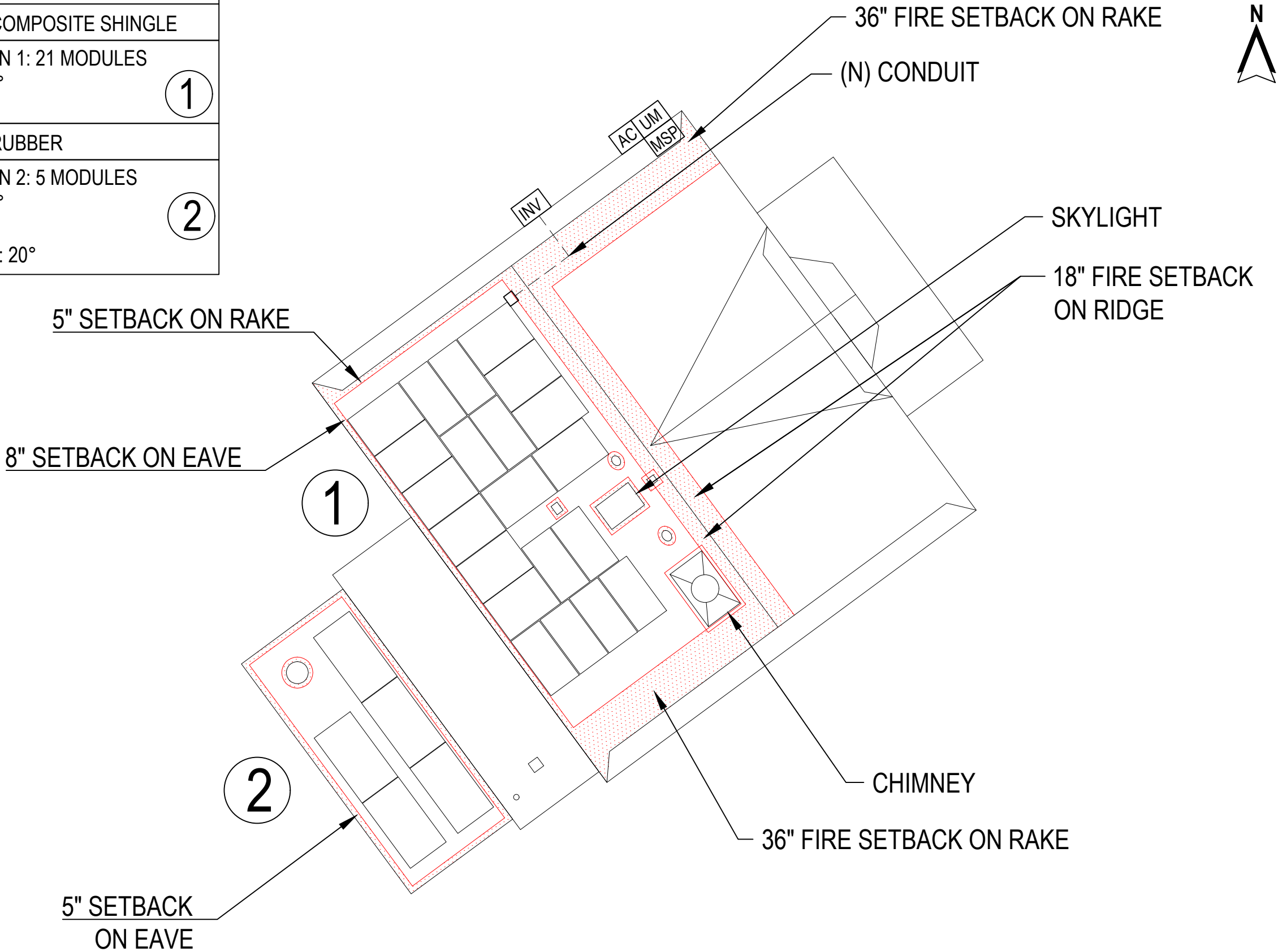

ROOFTOP POWER
275 W NATICK RD SUITE 800, WARWICK,
RI 02886, USA
TEL.NO.(833) 787-7697

PROPERTY PLAN

DATE: 7/17/2026
DRAWN BY: ESR

PV-2

ROOF DETAIL	
ROOF TYPE: COMPOSITE SHINGLE	1
ROOF SECTION 1: 21 MODULES AZIMUTH: 234° PITCH: 39°	
ROOF TYPE: RUBBER	
ROOF SECTION 2: 5 MODULES AZIMUTH: 234° PITCH: 2° MODULE TILT : 20°	2



--- 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 LABELED AT MAX 10' INTERVALS. CONDUIT RUNS ARE APPROXIMATE AND ARE TO BE DETERMINED BY THE INSTALLERS

SYSTEM LEGEND	
PHOTOVOLTAIC SYSTEM: DC SYSTEM SIZE: 10.270 kW AC SYSTEM SIZE: 7.600 kW	
GUILLERMO ACOSTA-MARUM No. 201306 REGISTERED PROFESSIONAL ENGINEER ELECTRICAL Reviewed and approved Guillermo Acosta-Marum, P.E. RI Lic. No. 201306 07/20/2026	
UM	UTILITY METER
MSP	MAIN SERVICE PANEL
AC	AC DISCONNECT
INV	TESLA 7.6 KW (1538000-XX-Y) INVERTER [240V]
	(26) CANADIAN SOLAR CS6R-395MS (395W) MODULES WITH (9) TESLA PV RAPID SHUTDOWN TSL-1879359-00-X SOLAR MCI-2 1000V
	JUNCTION BOX AND CONDUIT
	FIRE CODE SETBACK (4" MIN./36" MAX.)
SCALE: 1/8" = 1'-0"	
SARAH ELIZABETH KERN 238 WILBUR AVE, CRANSTON, RI 02921	
AHJ: CRANSTON	
IRTP ROOFTOP POWER 275 W NATICK RD SUITE 800, WARWICK, RI 02886, USA TEL.NO.(833) 787-7697	
SITE PLAN	

DATE: 7/17/2026 DRAWN BY: ESR	PV-3
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ROOF DETAIL	
ROOF TYPE: COMPOSITE SHINGLE	1
ROOF SECTION 1: 21 MODULES	
AZIMUTH: 234° PITCH: 39°	
ROOF TYPE: RUBBER	2
ROOF SECTION 2: 5 MODULES	
AZIMUTH: 234° PITCH: 2° MODULE TILT : 20°	

36" FIRE SETBACK
ON RAKE

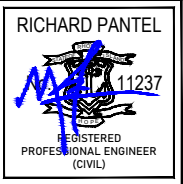
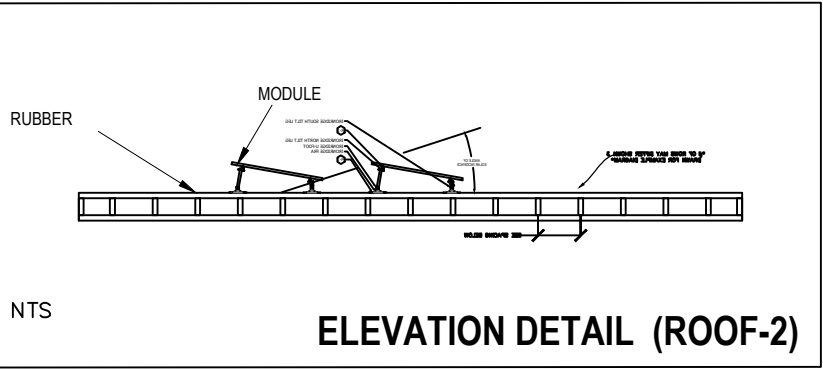
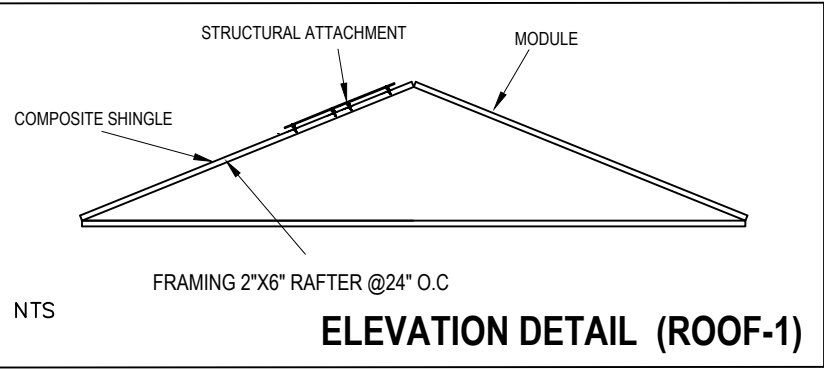
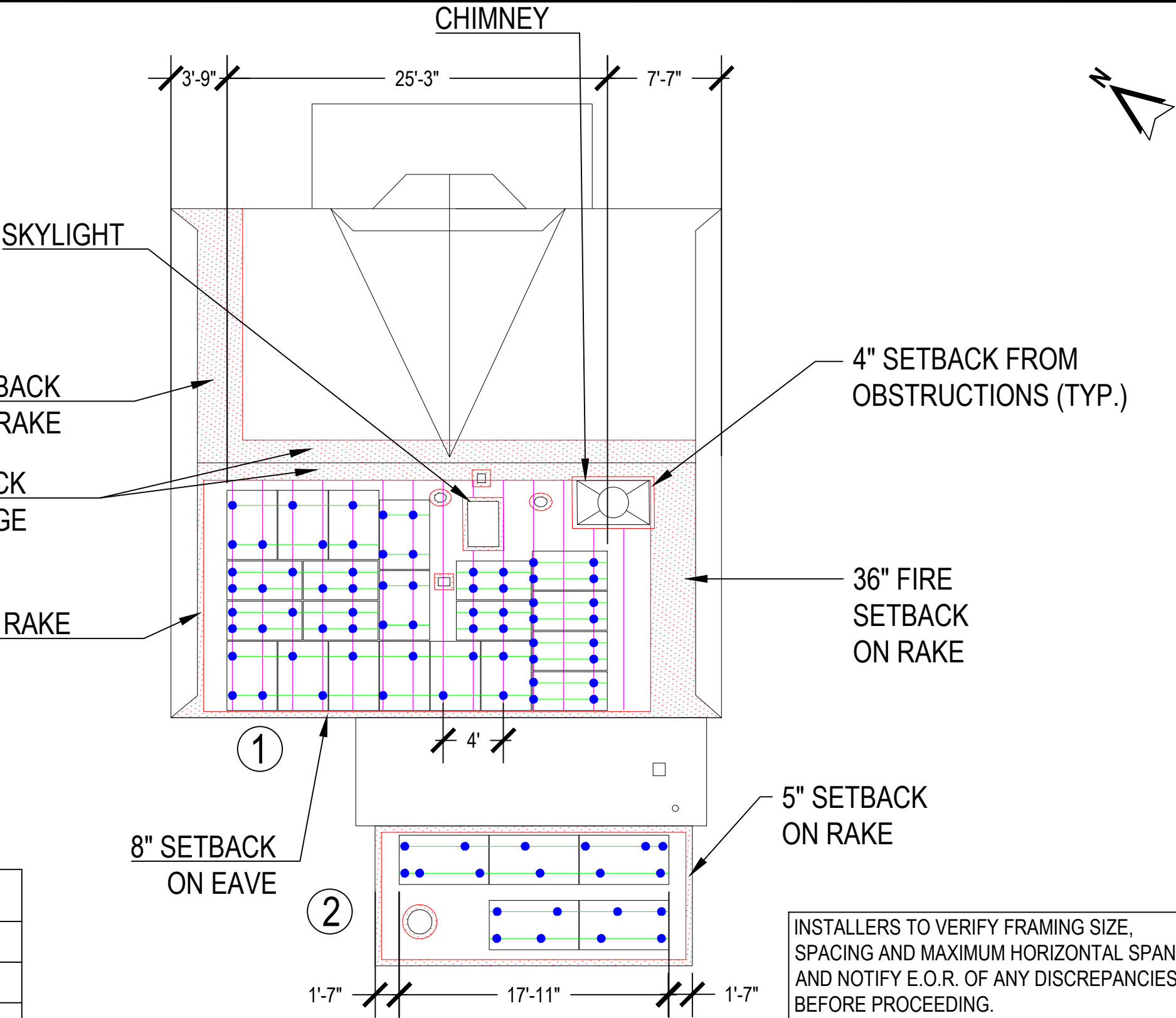
18" FIRE SETBACK
ON RIDGE

5" SETBACK ON RAKE

NOTE:- ATTACH RACKING USING (2) 5/16"
DIA. LAG SCREWS W/ MIN. 2-1/2"
EMBEDMENT INTO TRUSS/RAFTERS.

NOTE:- MAXIMUM SPACING BETWEEN
STANDOFFS SHALL NOT EXCEED 4'-0"

DESIGN CRITERIA	
DESIGN WIND SPEED	126 MPH
DESIGN SNOW LOAD	30 PSF
# OF STORIES	2
ROOF PITCH	39° & 2°
TOTAL ARRAY AREA (SQ. FT)	556.80
TOTAL ROOF AREA (SQ. FT)	2126
ROOF COVERAGE	26.19%
TOTAL ARRAY WEIGHT WITH RACKING WEIGHT	1311.04 LBS



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SYSTEM LEGEND

- ROOF ATTACHMENT POINT
- RACKING
- FIRE CODE SETBACK (4" MIN./36" MAX.)
- ROOF FRAMING (RAFTER)

SCALE: 1/8" = 1'-0"

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ROOF PLAN

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PV-3.1

CONDUCTOR AND CONDUIT SCHEDULE					
TAG	WIRE TYPE	WIRE SIZE	# OF CONDUCTORS	CONDUIT TYPE	MIN. CONDUIT SIZE
1	PV WIRE	#10	8 - L1 L2	FREE AIR	N/A
1	BARE COPPER	#6	1 - BARE	FREE AIR	N/A
2	THWN-2	#10	8 - L1 L2	EMT	3/4"
2	THWN-2 EGC	#10	1 - GND	EMT	3/4"
3	THWN-2	#8	3 - L1 L2 N	EMT	3/4"
3	THWN-2 EGC	#10	1 - GND	EMT	3/4"
4	THWN-2	#6	3 - L1 L2 N	EMT	3/4"

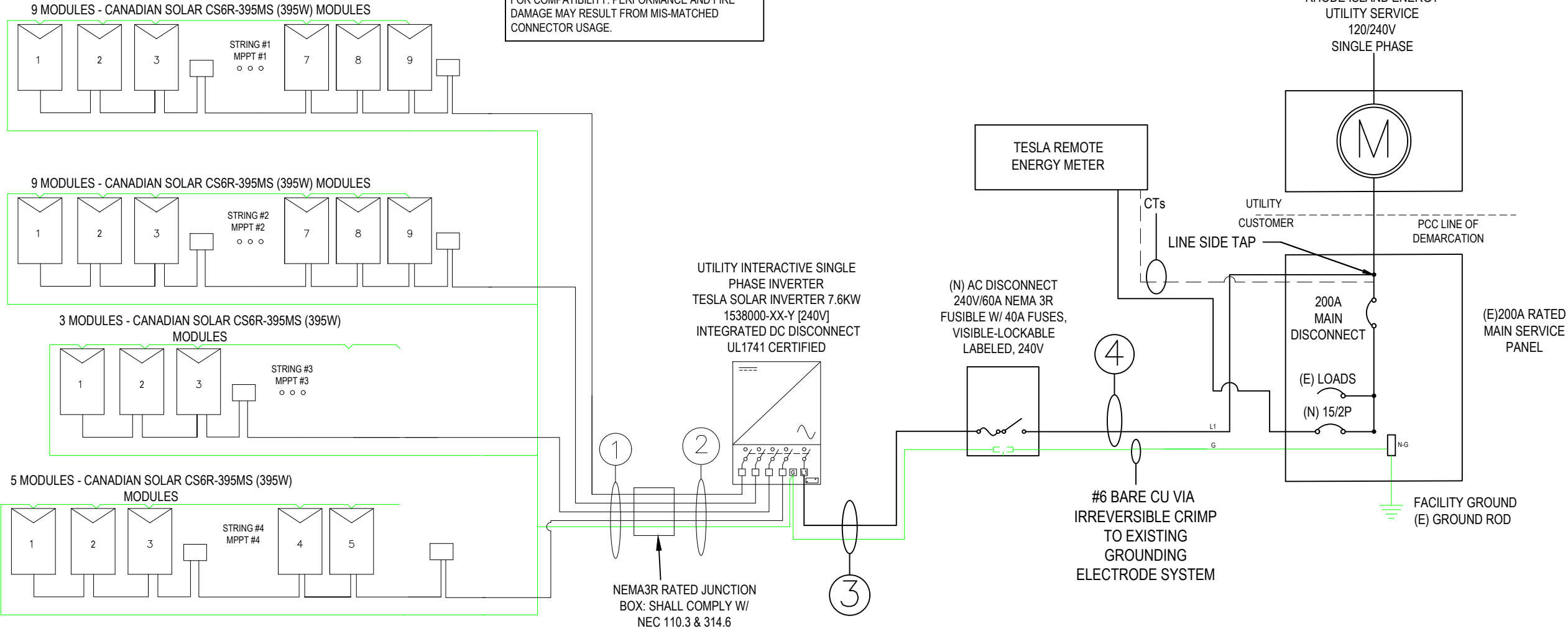
AMBIENT TEMPERATURE SPECS	
AMBIENT TEMP (HIGH TEMP 2%)	33°
RECORD LOW TEMP	-15°
TEMP ADJUSTMENT FOR INSTALLATION METHOD (°C)	35°

VOLTAGE CALCULATIONS	
VOC AT MIN TEMPERATURE (V)	40.41
VMP AT HIGH TEMPERATURE (V)	27.13
MAX MODULES PER STRING	13
MIN MODULES PER STRING	3
STARTUP VOLTAGE MET	4

PHOTOVOLTAIC SYSTEM:

DC SYSTEM SIZE: 10.270 kW& AC SYSTEM SIZE: 7.600 kW
INVERTER: (1) TESLA 7.6 KW (1538000-XX-Y) INVERTER [240V]
MODULE: (26) CANADIAN SOLAR CS6R-395MS (395W) MODULES
(9) TESLA PV RAPID SHUTDOWN TSL-1879359-00-X SOLAR MCI-2 1000V
(02) STRINGS OF 09 MODULES, (01) STRING OF 05 MODULES AND
(01) STRING OF 03 MODULES ARE CONNECTED IN SERIES.

NOTE:-ALL DC CONNECTORS TO MODULES OR INVERTER MUST BE OF MATCHING MANUFACTURE BRAND AND STYLE. DO NOT USE 'COMPATIBLE' CONNECTORS WHICH HAVE NOT BEEN UL TESTED FOR COMPATIBILITY, PERFORMANCE AND FIRE DAMAGE MAY RESULT FROM MIS-MATCHED CONNECTOR USAGE.



(N) INVERTER SPECIFICATIONS	
MANUFACTURER / MODEL #	TESLA 7.6 KW (1538000-XX-Y) INVERTER [240V]
NOMINAL AC POWER (KW)	7.6
NOMINAL OUTPUT VOLTAGE (AC)	240
NOMINAL OUTPUT CURRENT (A)	32
MAX DC INPUT VOLTAGE (V)	550
MIN DC INPUT VOLTAGE (V)	60
STARTUP VOLTAGE (V)	100

(N) SOLAR MODULE SPECIFICATIONS	
MANUFACTURER / MODEL #	CANADIAN SOLAR CS6R-395MS (395W) MODULES
VMP (V)	30.6
IMP (A)	12.91
VOC (V)	36.6
ISC (A)	13.77
TEMP. COEFF. VOC %/°C	-0.26
TEMP. COEFF. PMAX %/°C	-0.34

SYSTEM OVER-CURRENT PROTECTION DEVICE (OCPD) CALCULATIONS	
INVERTER TYPE	TESLA 7.6 KW (1538000-XX-Y) INVERTER [240V]
# OF INVERTERS	1
MAX CONTINUOUS OUTPUT CURRENT	32A
(# OF INVERTERS) X (MAX CONT. OUTPUT CURRENT) X 125% <= OCPD RATING	
(1 x 32A x 1.25)= 40.00A <= 40A, OK	



Reviewed and approved
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RI Lic. No. 201306
07/20/2026

- 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 NEC 250.58 AND 690.47(A)
 4. PV SOURCE, OUTPUT, AND INVERTER INPUT CIRCUIT WIRING METHODS SHALL COMPLY WITH NEC 690.1
 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 (IF APPLICABLE)
 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

INSTALLER / ELECTRICIAN NOTE:
EC IS TO MEASURE VOLTAGE BEFORE STARTING WORK.
IF RESULT IS ANY OTHER VOLTAGE MEASURED THAN 120/240V IS OBSERVED, DO NOT PROCEED. CONTACT ENGINEER.

METER ID# 199567540

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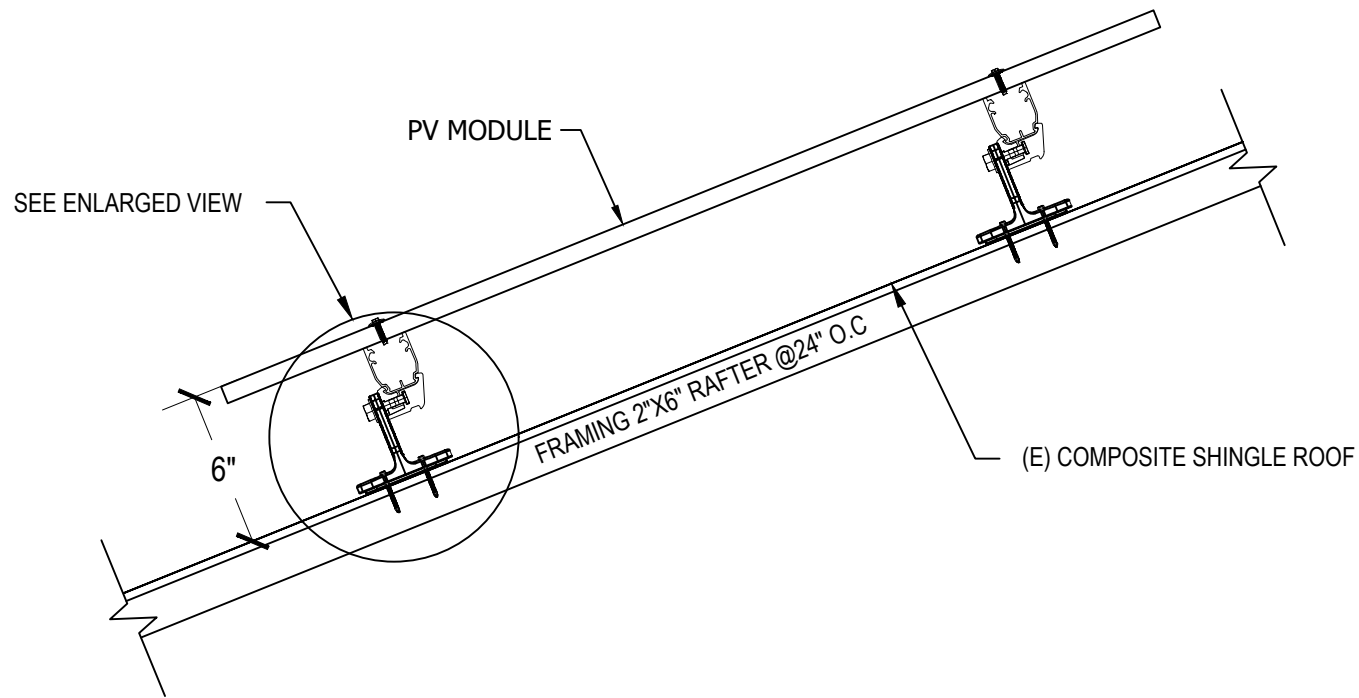
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1-LINE DIAGRAM & CALCULATIONS

DATE: 7/17/2026
DRAWN BY: ESR

PV-4



1 ATTACHMENT DETAILS (SIDE VIEW)
(N.T.S.)

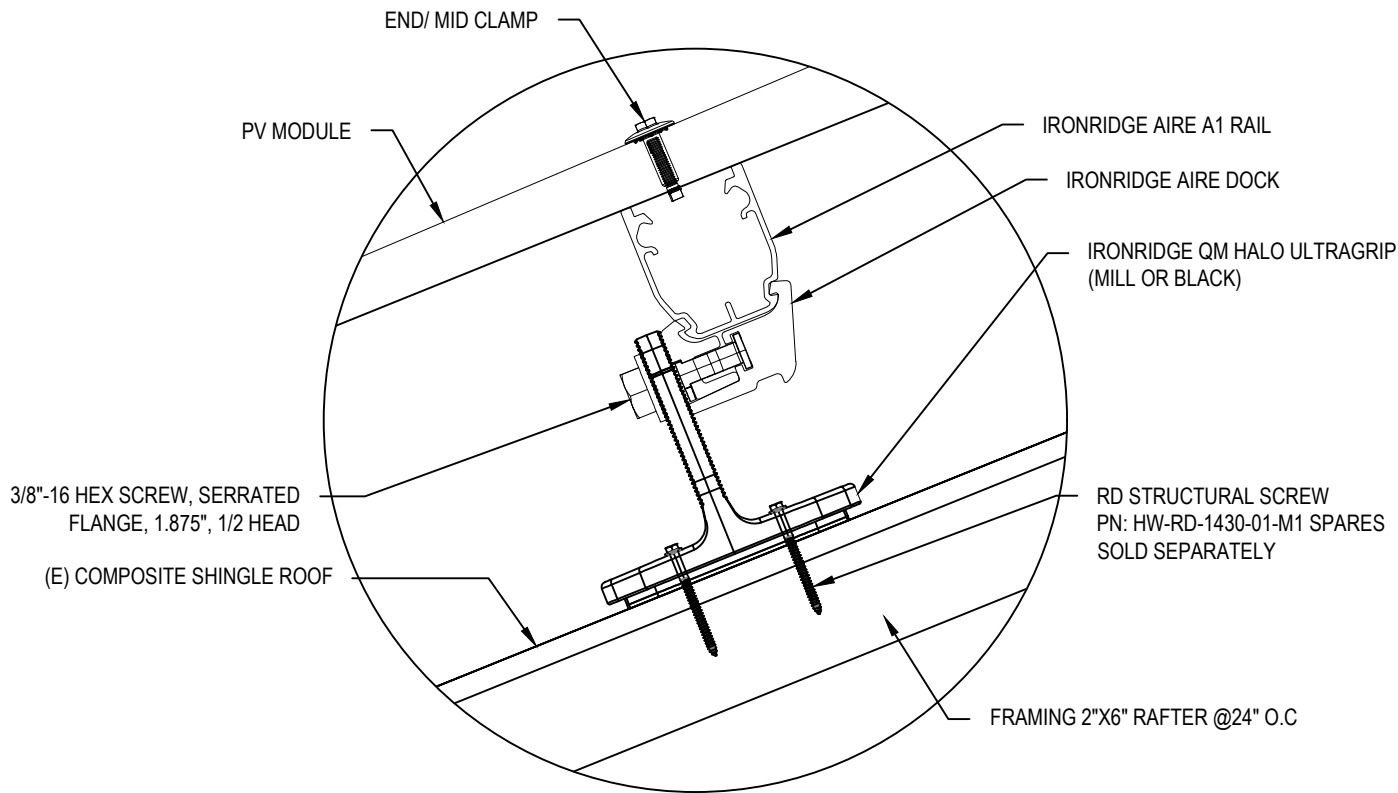
1 ATTACHMENT DETAILS
(N.T.S.)

ATTACHMENT TYPE: IRONRIDGE QM HALO ULTRAGRIP
WITH IRONRIDGE AIRE A1 RAILS AND
IRONRIDGE TILT LEG FOR FLAT ROOF
ROOF TYPE: COMPOSITE SHINGLE
ROOF TILT: 39° & 2°
MODULE WEIGHT: 47 LBS
MODULE DIMENSIONS: 5.65' X 3.71'
MODULE WEIGHT/ SQ. FOOT: 2.23 LBS

TOTAL NO. OF MODULES: 26
TOTAL MODULE WEIGHT: 1222.00 LBS



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07/20/2026



2 ATTACHMENT DETAILS (ENLARGED VIEW)
(N.T.S.)

BILL OF MATERIAL		
EQUIPMENT	MAKE	QUANTITY
MODULE	CANADIAN SOLAR CS6R-395MS (395W) MODULES	26
INVERTER	TESLA 7.6 KW (1538000-XX-Y) INVERTER [240V]	1
END CLAMPS	MODULE END CLAMP STANDARD	56
MID CLAMPS	MODULE MIDDLE CLAMP SET STANDARD(INTEGRATED GROUNDING)	24
MOUNTING POINTS	IRONRIDGE QM HALO ULTRAGRIP	65
MOUNTING POINTS	IRONRIDGE TILT LEG	20
MOUNTING RAILS	IRONRIDGE AIRE A1 RAILS	19
AC DISCONNECT	PV SYSTEM 60A VISIBLE LOCKABLE LABELED AC DISCONNECT WITH 40A FUSES	1
MCI	TESLA PV RAPID SHUTDOWN TSL-1879359-00-X SOLAR MCI-2 1000V	9
REMOTE ENERGY METER	TESLA REMOTE ENERGY METER	1

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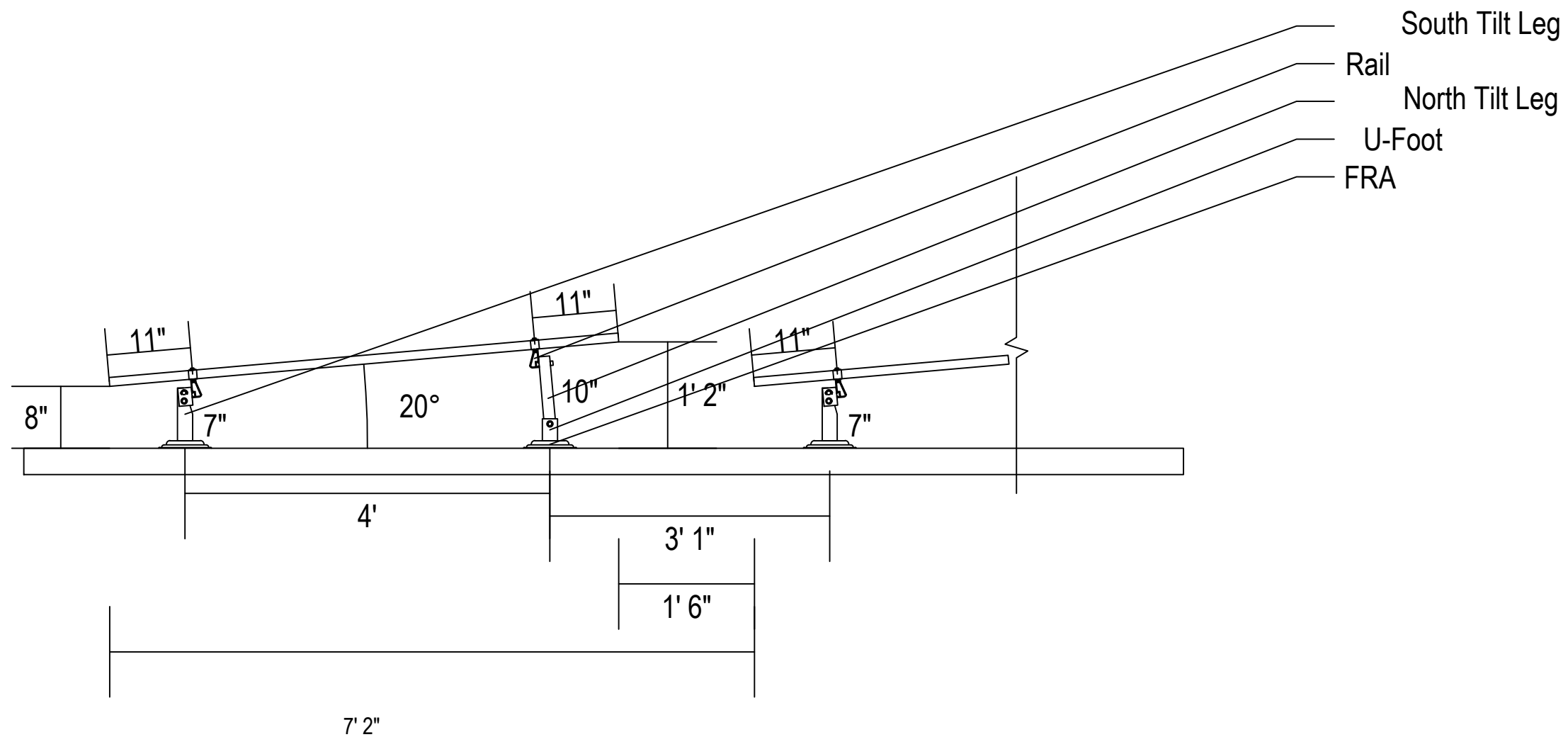
AHJ: CRANSTON


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MOUNTING DETAILS AND BOM

DATE: 7/17/2026
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PV-5



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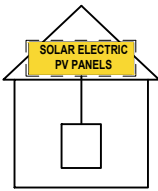
MOUNTING DETAILS

DATE: 7/17/2026
DRAWN BY: ESR

PV-5.1

SOLAR PV SYSTEM EQUIPPED WITH RAPID SHUTDOWN

TURN RAPID SHUTDOWN SWITCH TO THE "OFF" POSITION TO SHUTDOWN PV SYSTEM AND REDUCE SHOCK HAZARD IN ARRAY



LABEL 1

AT RAPID SHUTDOWN SYSTEM
[NEC 2023: 690.12(D)].

RAPID SHUTDOWN SWITCH FOR SOLAR PV SYSTEM

LABEL 6

AT RAPID SHUTDOWN DISCONNECT SWITCH
[NEC 2023: 690.12(D)(2)].

! WARNING !

DUAL POWER SOURCES. SECOND SOURCE IS PV SYSTEM

LABEL 11

AT POINT OF INTERCONNECTION; LABEL, SUCH AS LABEL 7 OR LABEL 8 MUST IDENTIFY PHOTOVOLTAIC SYSTEM
[NEC 2023: 705.30(C)]

WARNING: PHOTOVOLTAIC POWER SOURCE

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]
LETTERS AT LEAST 3/8 INCH; WHITE ON RED BACKGROUND; REFLECTIVE
[IFC 605.11.1.1]

! WARNING !

ELECTRIC SHOCK HAZARD

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

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

LABEL 2

AT EACH DISCONNECTING MEANS FOR PHOTOVOLTAIC EQUIPMENT
[NEC 2023: 690.13(B), 705.20(7), 706.15(C)]

! CAUTION !

MULTIPLE SOURCES OF POWER

LABEL 7

AT POINT OF INTERCONNECTION
[NEC 705.10]

UTILITY AC DISCONNECT

LABEL 13

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

! WARNING !

ELECTRIC SHOCK HAZARD

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

LABEL 3

AT EACH DISCONNECTING MEANS FOR PHOTOVOLTAIC EQUIPMENT
[NEC 2023: 690.13(B), 705.20(7), 706.15(C)]

MAXIMUM VOLTAGE: 550 V DC

MAXIMUM CIRCUIT CURRENT: 15 A DC

MAX RATED OUTPUT CURRENT OF THE CHARGE CONTROLLER OR DC-TO-DC CONVERTER (IF INSTALLED): N/A

LABEL 8

AT EACH DC DISCONNECTING MEANS
[NEC 690.13]

ROOF TOP POWER EMERGENCY CONTACT

833-787-7697

LABEL- 14:

LABEL LOCATION: MAIN SERVICE DISCONNECT
CODE REF: NFPA 1 (11.12.2.1.5)

! WARNING !

POWER SOURCE OUTPUT CONNECTION - DO NOT RELOCATE THIS OVERCURRENT DEVICE

LABEL 4

AT POINT OF INTERCONNECTION OVERCURRENT DEVICE
[NEC 2023: 705.12(B)(2)]

BI-DIRECTIONAL METER

LABEL 9

AT UTILITY METER
[NEC 690.56(B)]

PHOTOVOLTAIC AC DISCONNECT

OPERATING CURRENT: 32.0 A AC
OPERATING VOLTAGE: 240 V AC

LABEL 5

AT POINT OF INTERCONNECTION, MARKED AT DISCONNECTING MEANS
[NEC 690.13(B)]

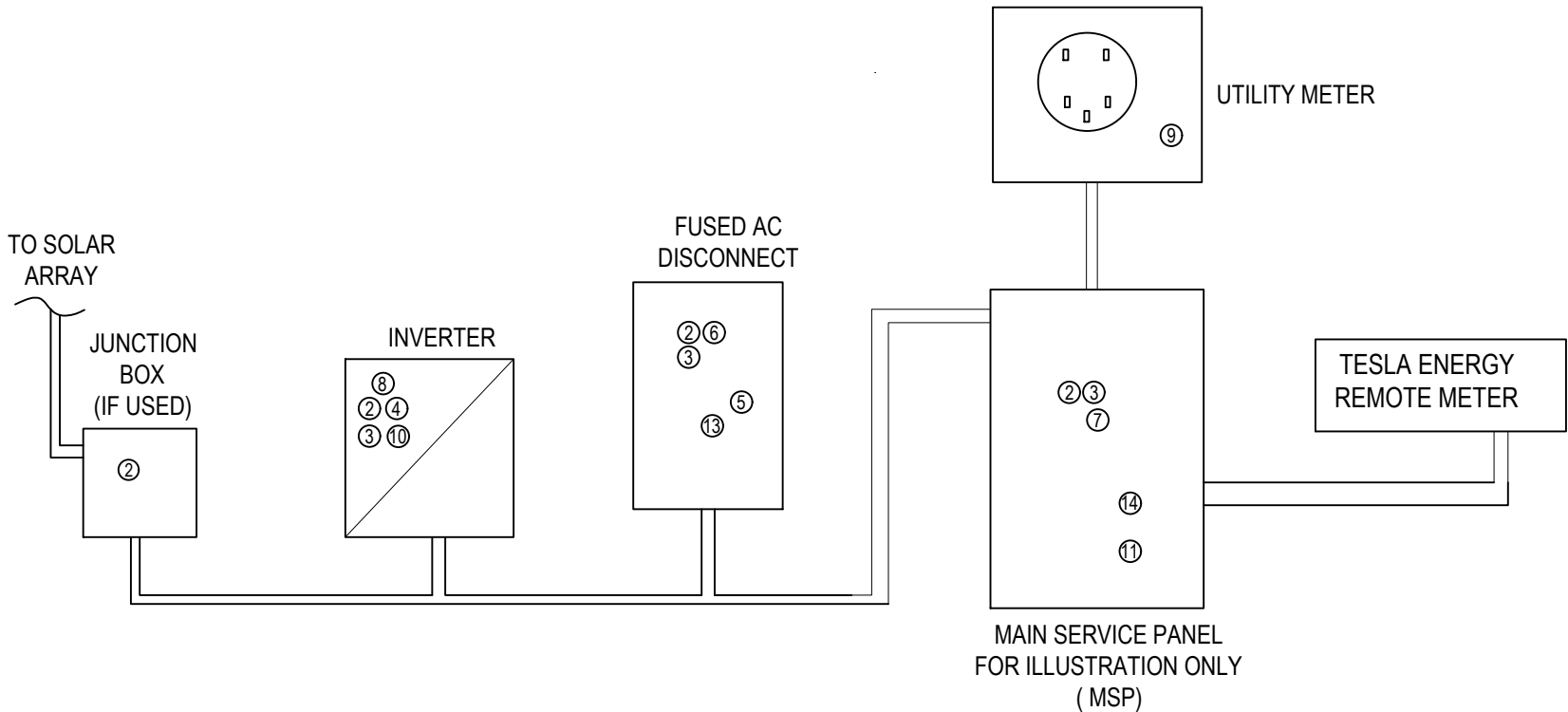
PHOTOVOLTAIC SYSTEM EQUIPPED WITH RAPID SHUTDOWN

LABEL 10

AT RAPID SHUTDOWN SWITCH
[NEC 2023: 690.12(D)(2)].
LETTERS AT LEAST 3/8 INCH; WHITE ON RED BACKGROUND; REFLECTIVE
[IFC 605.11.1.1]

WARNING

THIS SERVICE METER IS ALSO SERVED BY A PHOTOVOLTAIC SYSTEM



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RI Lic. No. 201306
07/20/2026

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 2023 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

SARAH ELIZABETH KERN
238 WILBUR AVE, CRANSTON, RI 02921

AHJ: CRANSTON


ROOFTOP POWER
275 W NATICK RD SUITE 800, WARWICK,
RI 02886, USA
TEL.NO.(833) 787-7697

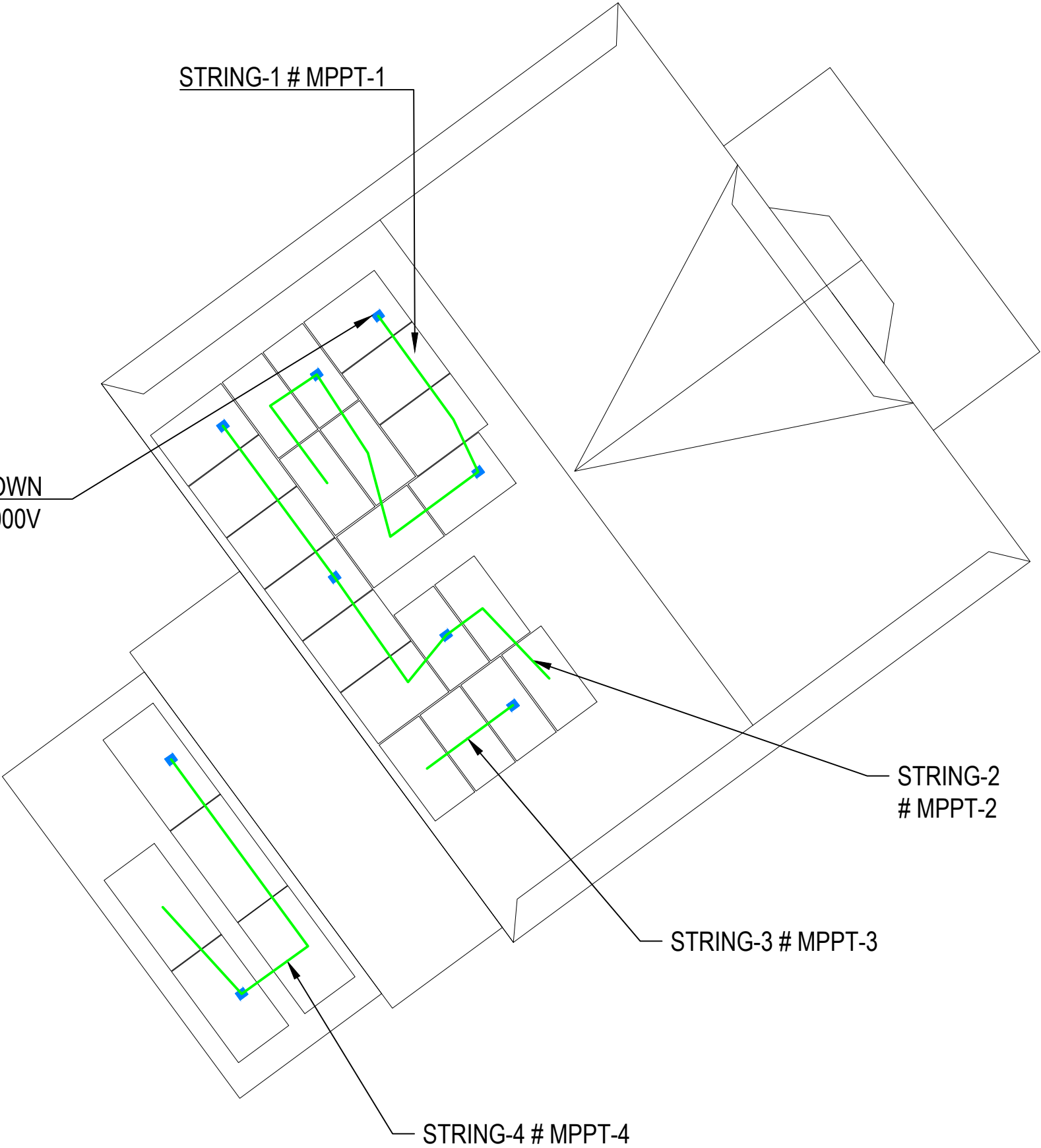
ELECTRICAL LABELS & ELEVATION

DATE: 7/17/2026
DRAWN BY: ESR

PV-6

STRING DETAIL	
TESLA STRING	
	STRING # 1/MPPT1: 9 MODULES
	STRING# 2/MPPT2: 9 MODULES
	STRING# 3/MPPT3: 3 MODULES
	STRING# 4/MPPT4: 5 MODULES

(9) TESLA PV RAPID SHUTDOWN
TSL-1879359-00-X SOLAR MCI-2 1000V



Reviewed and approved
Guillermo Acosta-Marum, P.E.
RI Lic. No. 201306
07/20/2026

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MCI & STRING MAP

DATE: 7/17/2026
DRAWN BY: ESR

PV-7

FOR INSTALLER USE ONLY



HiKu6 Mono PERC

395 W ~ 420 W

CS6R-395|400|405|410|415|420MS

MORE POWER

- Module power up to 420 W
Module efficiency up to 21.5 %
- Lower LCOE & system cost
- Comprehensive LID / LeTID mitigation technology, up to 50% lower degradation
- Better shading tolerance

MORE RELIABLE

- Minimizes micro-crack impacts
- Heavy snow load up to 5400 Pa, wind load up to 2400 Pa*

*Black frame product can be provided upon request.

12 Years Enhanced Product Warranty on Materials and Workmanship*

25 Years Linear Power Performance Warranty*

1st year power degradation no more than 2%
Subsequent annual power degradation no more than 0.55%

*According to the applicable Canadian Solar Limited Warranty Statement.

MANAGEMENT SYSTEM CERTIFICATES*

ISO 9001:2015 / Quality management system
ISO 14001:2015 / Standards for environmental management system
ISO 45001: 2018 / International standards for occupational health & safety
IEC62941: 2019 / Photovoltaic module manufacturing quality system

PRODUCT CERTIFICATES*

IEC 61215 / IEC 61730 / CE / INMETRO / MCS / UKCA
UL 61730 / IEC 61701 / IEC 62716 / IEC 60068-2-68
UNI 9177 Reaction to Fire: Class 1 / Take-e-way



* The specific certificates applicable to different module types and markets will vary, and therefore not all of the certifications listed herein will simultaneously apply to the products you order or use. Please contact your local Canadian Solar sales representative to confirm the specific certificates available for your Product and applicable in the regions in which the products will be used.

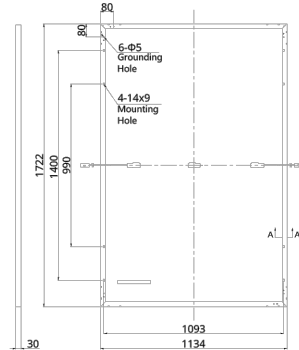
CSI Solar Co., Ltd. is committed to providing high quality solar photovoltaic modules, solar energy and battery storage solutions to customers. The company was recognized as the No. 1 module supplier for quality and performance/price ratio in the IHS Module Customer Insight Survey. Over the past 20 years, it has successfully delivered over 82 GW of premium-quality solar modules across the world.

* For detailed information, please refer to the Installation Manual.

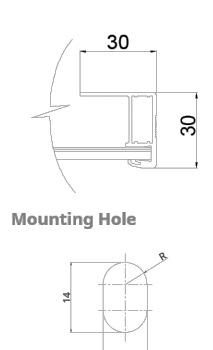
CSI Solar Co., Ltd.
199 Lushan Road, SND, Suzhou, Jiangsu, China, 215129, www.csisolar.com, support@csisolar.com

ENGINEERING DRAWING (mm)

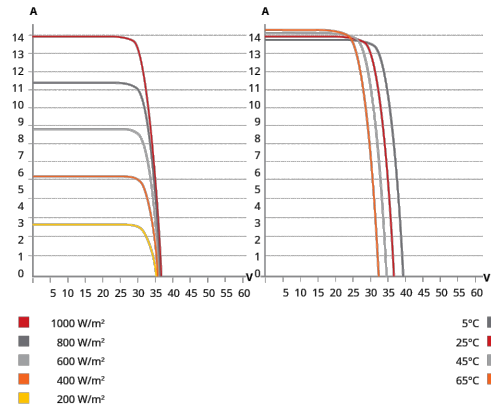
Rear View



Frame Cross Section A-A



CS6R-405MS / I-V CURVES



ELECTRICAL DATA | STC*

CS6R	395MS	400MS	405MS	410MS	415MS	420MS
Nominal Max. Power (Pmax)	395 W	400 W	405 W	410 W	415 W	420 W
Opt. Operating Voltage (Vmp)	30.6 V	30.8 V	31.0 V	31.2 V	31.4 V	31.6 V
Opt. Operating Current (Imp)	12.91 A	12.99 A	13.07 A	13.15 A	13.23 A	13.31 A
Open Circuit Voltage (Voc)	36.6 V	36.8 V	37.0 V	37.2 V	37.4 V	37.6 V
Short Circuit Current (Isc)	13.77 A	13.85 A	13.93 A	14.01 A	14.09 A	14.17 A
Module Efficiency	20.2%	20.5%	20.7%	21.0%	21.3%	21.5%
Operating Temperature	-40°C ~ +85°C					
Max. System Voltage	1500V (IEC/UL) or 1000V (IEC/UL)					
Module Fire Performance	TYPE 1 (UL 61730 1500V) or TYPE 2 (UL 61730 1000V) or CLASS C (IEC 61730)					
Max. Series Fuse Rating	25 A					
Application Classification	Class A					
Power Tolerance	0 ~ + 10 W					

* Under Standard Test Conditions (STC) of irradiance of 1000 W/m², spectrum AM 1.5 and cell temperature of 25°C.

MECHANICAL DATA

Specification	Data
Cell Type	Mono-crystalline
Cell Arrangement	108 [2 X (9 X 6)]
Dimensions	1722 × 1134 × 30 mm (67.8 × 44.6 × 1.18 in)
Weight	21.3 kg (47.0 lbs)
Front Cover	3.2 mm tempered glass with anti-reflective coating
Frame	Anodized aluminium alloy,
J-Box	IP68, 3 bypass diodes
Cable	4 mm² (IEC), 12 AWG (UL)
Connector	T6 or MC4 or MC4-EVO2 or MC4-EVO2A
Cable Length (Including Connector)	Portrait: 410 mm (16.1 in) (+) / 290 mm (11.4 in) (-); landscape: 1100 mm (43.3 in)*
Per Pallet	35 pieces
Per Container (40' HQ)	910 pieces

* For detailed information, please contact your local Canadian Solar sales and technical representatives.

ELECTRICAL DATA | NMOT*

CS6R	395MS	400MS	405MS	410MS	415MS	420MS
Nominal Max. Power (Pmax)	296 W	300 W	304 W	307 W	311 W	315 W
Opt. Operating Voltage (Vmp)	28.7 V	28.9 V	29.1 V	29.2 V	29.4 V	29.6 V
Opt. Operating Current (Imp)	10.33 A	10.39 A	10.45 A	10.52 A	10.58 A	10.65 A
Open Circuit Voltage (Voc)	34.6 V	34.8 V	35.0 V	35.1 V	35.3 V	35.5 V
Short Circuit Current (Isc)	11.09 A	11.15 A	11.21 A	11.28 A	11.34 A	11.41 A

* Under Nominal Module Operating Temperature (NMOT), irradiance of 800 W/m², spectrum AM 1.5, ambient temperature 20°C, wind speed 1 m/s.

TEMPERATURE CHARACTERISTICS

Specification	Data
Temperature Coefficient (Pmax)	-0.34 % / °C
Temperature Coefficient (Voc)	-0.26 % / °C
Temperature Coefficient (Isc)	0.05 % / °C
Nominal Module Operating Temperature	41 ± 3°C

PARTNER SECTION



* The specifications and key features contained in this datasheet may deviate slightly from our actual products due to the on-going innovation and product enhancement. CSI Solar Co., Ltd. reserves the right to make necessary adjustment to the information described herein at any time without further notice.
Please be kindly advised that PV modules should be handled and installed by qualified people who have professional skills and please carefully read the safety and installation instructions before using our PV modules.

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199 Lushan Road, SND, Suzhou, Jiangsu, China, 215129, www.csisolar.com, support@csisolar.com

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MODULE DATASHEET

DATE: 7/17/2026
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PV-8.1

Tesla Solar Inverter with Site Controller

Tesla Solar Inverter completes the Tesla home solar system, converting DC power from solar to AC power for home consumption. Tesla's renowned expertise in power electronics has been combined with robust safety features and a simple installation process to produce an outstanding solar inverter that is compatible with both Solar Roof and traditional solar panels. Once installed, homeowners use the Tesla mobile app to manage their solar system and monitor energy consumption, resulting in a truly unique ecosystem experience.

- KEY FEATURES
- Built on Powerwall technology for exceptional efficiency and reliability
 - Wi-Fi, Ethernet, and cellular connectivity with easy over-the-air updates
 - Designed to integrate with Tesla Powerwall and Tesla App
 - 0.5% revenue-grade metering for Solar Renewable Energy Credit (SREC) programs included



March 17, 2024

Tesla Solar Inverter Technical Specifications

Electrical Specifications: Output (AC)	Model Number	1538000-xx-y			
	Output (AC) ¹	3.8 kW	5 kW	5.7 kW	7.6 kW
	Nominal Power	3,800 W	5,000 W	5,700 W	7,600 W
	Maximum Apparent Power	3,840 VA	5,040 VA	6,000 VA	7,680 VA
	Maximum Continuous Current	16 A	21 A	24 A	32 A
	Breaker (Overcurrent Protection)	20 A	30 A	30 A	40 A
	Nominal Power Factor	1 - 0.9 (leading / lagging)			
	THD (at Nominal Power)	<5%			

Electrical Specifications: Input (DC)	MPPT	4
	Input Connectors per MPPT	1-2-1-2
	Maximum Input Voltage	600 VDC
	DC Input Voltage Range	60 - 550 VDC
	DC MPPT Voltage Range	60 - 480 VDC ¹
	Maximum Current per MPPT (I _{mp})	13 A ²
	Maximum Short Circuit Current per MPPT (I _{sc})	17 A ²
	¹ Maximum current.	
	² Where the DC input current exceeds an MPPT rating, jumpers can be used to allow a single MPPT to intake additional DC current up to 26 A I _{mp} / 34 A I _{sc} .	

Performance Specifications	Peak Efficiency	98.6% at 240 V
	CEC Efficiency	98.0% at 240 V
	Allowable DC/AC Ratio	1.7
	Customer Interface	Tesla Mobile App
	Internet Connectivity	Wi-Fi (2.4 GHz, 802.11 b/g/n), Ethernet, Cellular (LTE/4G) ³
	Revenue Grade Meter	Revenue Accurate (+/- 0.5%)
	AC Remote Metering Support	Wi-Fi (2.4 GHz, 802.11 b/g/n)
	Protections	Integrated arc fault circuit interrupter (AFCI), Rapid Shutdown
	Supported Grid Types	60 Hz, 240 V Split Phase
	Warranty	12.5 years

³Cellular connectivity subject to network operator service coverage and signal strength.

Tesla Solar Inverter and Solar Shutdown Device Datasheet

2

Tesla Solar Inverter Technical Specifications

Mechanical Specifications	Dimensions	660 mm x 411 mm x 158 mm (26 in x 16 in x 6 in)
	Weight	52 lb ⁴
	Mounting Options	Wall mount (bracket)
	⁴ Door and bracket can be removed for a mounting weight of 37 lb.	

Environmental Specifications	Operating Temperature	-30°C to 45°C (-22°F to 113°F) ⁵
	Operating Humidity (RH)	Up to 100%, condensing
	Storage Temperature	-30°C to 70°C (-22°F to 158°F)
	Maximum Elevation	3000 m (9843 ft)
	Environment	Indoor and outdoor rated
	Enclosure Rating	Type 3R
	Ingress Rating	IP55 (Wiring compartment)
	Pollution Rating	PD2 for power electronics and terminal wiring compartment, PD3 for all other components
	Operating Noise @ 1 m	< 40 db(A) nominal, < 50 db(A) maximum
	⁵ Performance may be de-rated to 6.2 kW at 240 V when operating at temperatures greater than 45°C.	

Compliance Information	Grid Certifications	UL 1741, UL 1741 SA, UL 1741 SB, UL 1741 PCS, IEEE 1547-2018, IEEE 1547.1
	Safety Certifications	UL 1741 PVRSS, UL 1699B, UL 1998 (US), UL 3741
	Emissions	EN 61000-6-3 (Residential), FCC 47CFR15.109 (a)

Tesla Solar Inverter and Solar Shutdown Device Datasheet

3

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INVERTER DATASHEET

DATE: 7/17/2026
DRAWN BY: ESR

PV-8.2

Solar Shutdown Device Technical Specifications

The Solar Shutdown Device is a Mid-Circuit Interrupter (MCI) and is part of the PV system rapid shutdown (RSD) function in accordance with Article 690 of the applicable NEC. When paired with Tesla Solar Inverter, solar array shutdown is initiated by any loss of AC power.

Electrical Specifications	Model	MCI-1	MCI-2
	Nominal Input DC Current Rating (I_{MP})	13 A	13 A
	Maximum Input Short Circuit Current (I_{SC})	19 A	17 A
	Maximum System Voltage (PVHCS)	600 V DC	1000 V DC ⁶
	⁶ Maximum System Voltage is limited by Tesla Solar Inverter to 600 V DC.		
RSD Module Performance	Maximum Number of Devices per String	5	5
	Control	Power Line Excitation	Power Line Excitation
	Passive State	Normally Open	Normally Open
	Maximum Power Consumption	7 W	7 W
	Warranty	25 years	25 years
Environmental Specifications	Operating Temperature	-40°C to 50°C (-40°F to 122°F)	-45°C to 70°C (-49°F to 158°F)
	Storage Temperature	-30°C to 70°C (-22°F to 158°F)	-30°C to 70°C (-22°F to 158°F)
	Enclosure Rating	NEMA 4X / IP65	NEMA 4X / IP65
Mechanical Specifications	Electrical Connections	MC4 Connector	MC4 Connector
	Housing	Plastic	Plastic
	Dimensions	125 x 150 x 22 mm (5 x 6 x 1 in)	173 x 45 x 22 mm (6.8 x 1.8 x 1 in)
	Weight	350 g (0.77 lb)	120 g (0.26 lb)
	Mounting Options	ZEP Home Run Clip M4 Screw (#10) M8 Bolt (5/16") Nail / Wood screw	Wire Clip
Compliance Information	Certifications	UL 1741 PVRSE, UL 3741, PVRSA (Photovoltaic Rapid Shutdown Array)	
	RSD Initiation Method	PV System AC Breaker or Switch	
UL 3741 PV Hazard Control (and PVRSA) Compatibility		See Tesla Solar Inverter Installation Manual	

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INVERTER DATASHEET

DATE: 7/17/2026
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PV-8.3



Aire® Flush Mount System

Datasheet



Breathe easy with accelerated installations.

The Aire® racking system has been carefully engineered to streamline every part of the installation process. We've eliminated tiresome hassles, so that you get off the roof and on to your next project faster than ever.

Aire® retains the strength and reliability that IronRidge installers depend on. It also takes wire management to the next level with the first (and only) NEC-compliant rail, formally approved and listed as a cable tray.

Strength Tested
All components have been evaluated for superior structural performance.

PE Certified
Pre-stamped engineering letters are available online for most states.

Class A Fire Rating
Certified to maintain the fire resistance rating of the existing roof structure.

Approved Cable Tray
Open channel listed to NEMA VE 1, certified to hold PV and DG cables.

UL 2703 Listed System
Entire system and components meet the latest effective UL 2703 standards.

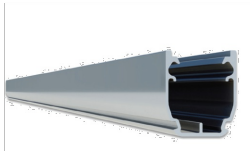
25-Year Warranty
Products are guaranteed to arrive without any impairing defects.

One-Tool System - 1/2" Hex-Head Components

Datasheet

Rails

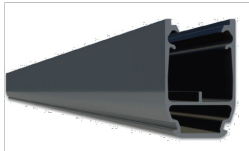
Aire® A1 Rail



The lighter, open Aire® rail for standard conditions.

- 6' spanning capability
- Wire management tray
- Mill or anodized black

Aire® A2 Rail



The tougher, open Aire® rail for higher load capacity.

- 8' spanning capability
- Wire management tray
- Mill or anodized black

Aire® Rail Ties



Structurally connect and bond Aire® Rails together.

- Reinstallable, up to 5x
- Internal splice design
- No more splice rules

Aire® Dock



Connects Aire® Rails to attachments with ease.

- Clicks on, slides easily
- Drops into open slots
- Anodized assembly

Clamps & Grounding

Aire® Lock Mids



Securely bond between modules to Aire® Rails.

- Fits 30-40mm modules
- Utilizes UFO® design
- Minimal 1/2" gap

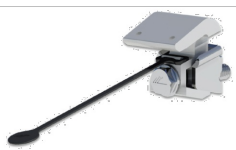
Aire® Lock Ends



Securely bond modules to Aire® Rails along ends.

- Fits 30-40mm modules
- Easy rail engagement
- Clean aesthetics

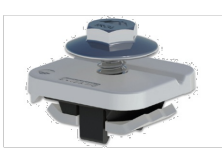
Aire® Lock Stealth®



Securely bonds modules to rail ends, entirely hidden.

- Angled for easy install
- Robust tether leash
- Fits most modules

Aire® Lug



Bonds Aire® Rails to grounding conductors.

- Simplified with single bolt
- Low-profile form factor
- Works with 10-6 AWG

Accessories

Aire® Caps



Block entry and provide a finished look to Aire® Rails.

- Stay secure on rail ends
- Symmetrical, with drain
- Cover rough-cut ends

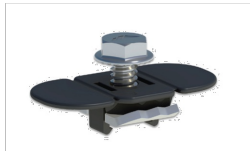
Aire® Clip



Keeps wiring contained in open Aire® Rail channels.

- No module interference
- Simple press-in design
- Slot for easy removal

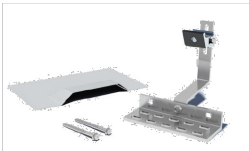
Aire® MLPE Mount



Securely bonds MLPE and accessories to Aire® Rails.

- Glove-friendly installation
- Lays flush in rail channel
- Low profile form factor

Aire® All Tile Hook



Attaches rails to tile roofs, with Aire® Dock included.

- Works on flat, S, & W tiles
- Single-socket installation
- Optional deck flashing

Resources



Design Assistant
Quickly go from rough layout to fully engineered system.
[Go to IronRidge.com/design](https://www.ironridge.com/design)



Approved for FL Hurricane Zones
Aire® has Florida Product Approval. Additional details can be found on the Florida Building Code website.
[Learn More at bit.ly/florida-aire](https://bit.ly/florida-aire)

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RACKING DATASHEET

DATE: 7/17/2026
DRAWN BY: ESR

PV-8.4



QuickMount® Halo UltraGrip®

Cut Sheet

Release Liner shown for reference

RD STRUCTURAL SCREW PN RD-1430-01-M1
SOLD SEPARATELY
SHOWN FOR REFERENCE

ITEM NO	DESCRIPTION	QTY IN KIT
1	QM Halo UltraGrip(Mill or Black)	1

PART NUMBER	DESCRIPTION
QM-HUG-01-M1	Halo UltraGrip - Mill
QM-HUG-01-B1	Halo UltraGrip - Black

Cut Sheet

1. Halo UltraGrip

Top View Dimensions: .38, 3.35, 3.83

Side View Dimensions: 1.63, .40, .34, 3.00

Front View Dimensions: 1.56, $\phi .26$

Property	Value
Material	300 Series Aluminium
Finish	Mill or Black

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ATTACHMENT DATASHEET

DATE: 7/17/2026
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PV-8.5



Tilt Mount System



Trust your system at every angle.

The IronRidge Tilt Mount System supports a wide range of solar module tilting angles, while also resisting the extreme wind and snow forces experienced over a building’s lifetime.

Every component has been carefully engineered and rigorously tested, and the entire system uses only aluminum and stainless steel materials to resist corrosion.



Roof Friendly

Lightweight and compatible with industry-standard attachments.



PE Certified

Pre-stamped engineering letters available in most states.



Strength Tested

All components evaluated for superior structural performance.



Design Assistant

Online software makes it simple to create, share, and price projects.



UL 2703 Listed System

Meets newest effective UL 2703 standard.



25-Year Warranty

Products guaranteed to be free of impairing defects.

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ATTACHMENT DATASHEET

DATE: 7/17/2026
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PV-8.6

XR Rails & Tilt Legs

XR Rails



Attach directly to Tilt Legs. Available in three targeted sizes to support specific wind and snow loads.

- Unique curved profile
- Spanning capabilities up to 12'
- Clear and black finish

Tilt Legs



Tilt assembly to desired angle, up to 30 degrees. Kits include South and North Tilt Leg and all hardware.

- Available in multiple lengths for a wide angle range
- Assembled South Tilt Legs include angle indicators
- Legs are electrically bonded to rails

Grounding Clamps

UFOs



Universal Fastening Objects secure and bond modules to rails.

- Fully assembled and lubricated
- Single, universal size
- Clear and black finish

Stopper Sleeves



Snap onto the UFO to transform into a bonded end clamp.

- Bonds modules to rails
- Sized to match modules
- Clear and black finish

CAMO

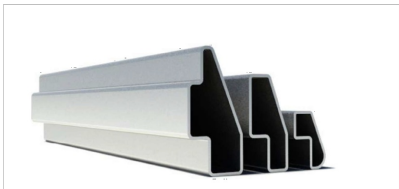


Bond modules to rails while staying completely hidden.

- Universal end-cam clamp
- Tool-less installation
- Fully assembled

Accessories

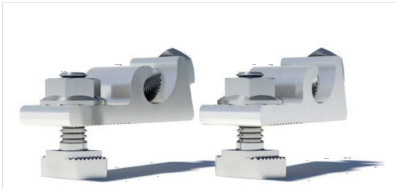
BOSS™ Bonded Splices



Bonded Structural Splices connect and bond XR Rails together.

- Integrated bonding
- No tools or hardware
- Self-centering stop tab

Grounding Lugs



Connects Tilt Mount system to equipment ground.

- Low profile
- Single tool installation
- Mounts in any direction

Ends Caps & Wire Clips



Provide a finished look and organize electrical wires.

- Simple snap-in installations
- Clips hold up to ten 5mm wires
- UV-stabilized polymer

Resources



Design Assistant
Go from rough layout to fully engineered system. For free.
[Go to IronRidge.com/design](https://www.ironridge.com/design)



NABCEP Certified Training
Earn free continuing education credits, while learning more about our systems.
[Go to IronRidge.com/training](https://www.ironridge.com/training)

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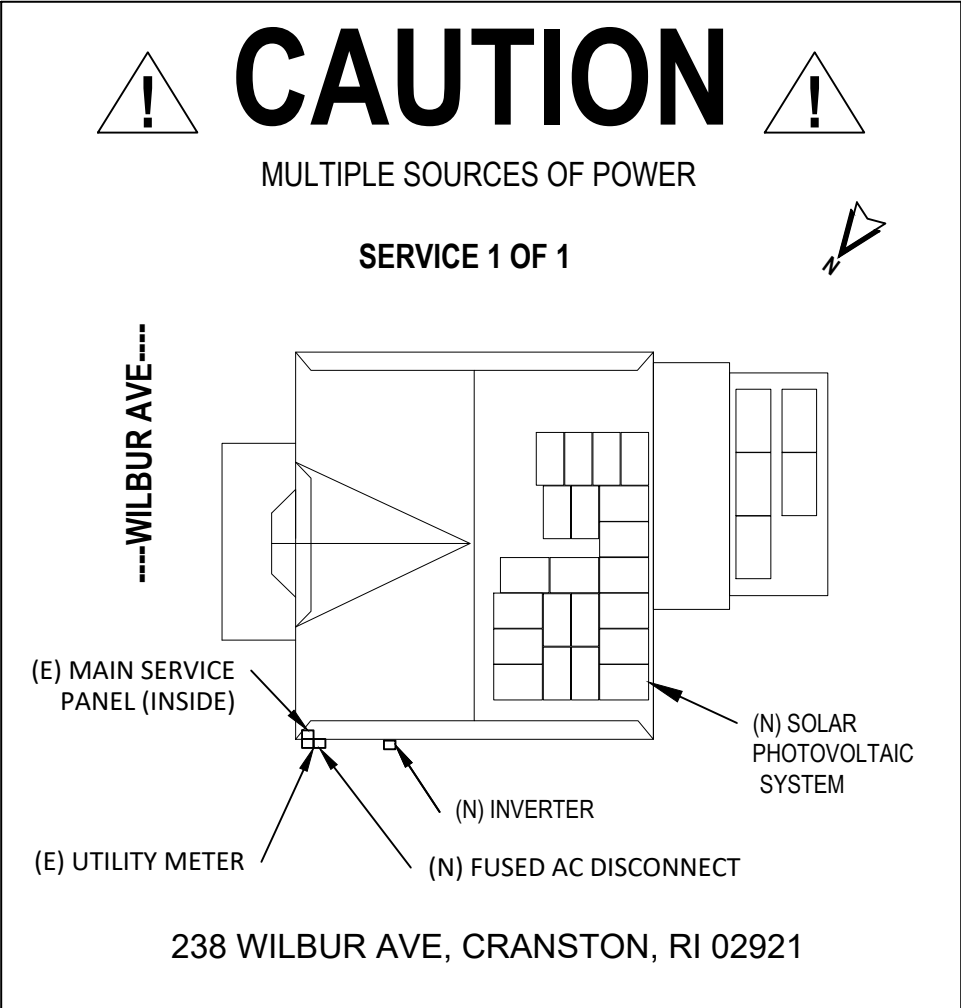
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PV-8.7



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TEL.NO.(833) 787-7697

PLACARD

DATE: 7/17/2026
DRAWN BY: ESR

PV-9

CONDUCTOR AND CONDUIT SCHEDULE					
TAG	WIRE TYPE	WIRE SIZE	# OF CONDUCTORS	CONDUIT TYPE	MIN. CONDUIT SIZE
1	PV WIRE	#10	8 - L1 L2	FREE AIR	N/A
1	BARE COPPER	#6	1 - BARE	FREE AIR	N/A
2	THWN-2	#10	8 - L1 L2	EMT	3/4"
2	THWN-2 EGC	#10	1 - GND	EMT	3/4"
3	THWN-2	#8	3 - L1 L2 N	EMT	3/4"
3	THWN-2 EGC	#10	1 - GND	EMT	3/4"
4	THWN-2	#6	3 - L1 L2 N	EMT	3/4"

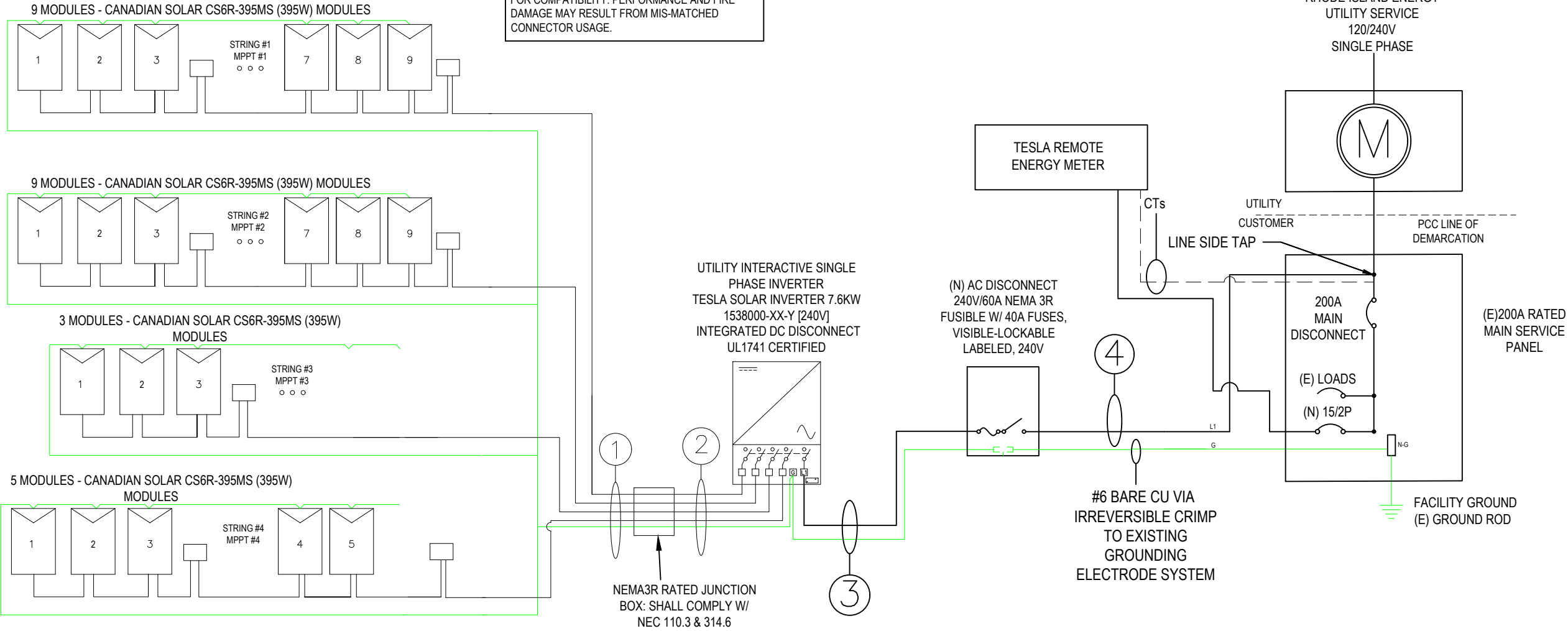
AMBIENT TEMPERATURE SPECS	
AMBIENT TEMP (HIGH TEMP 2%)	33°
RECORD LOW TEMP	-15°
TEMP ADJUSTMENT FOR INSTALLATION METHOD (°C)	35°

VOLTAGE CALCULATIONS	
VOC AT MIN TEMPERATURE (V)	40.41
VMP AT HIGH TEMPERATURE (V)	27.13
MAX MODULES PER STRING	13
MIN MODULES PER STRING	3
STARTUP VOLTAGE MET	4

PHOTOVOLTAIC SYSTEM:

DC SYSTEM SIZE: 10.270 kW& AC SYSTEM SIZE: 7.600 kW
INVERTER: (1) TESLA 7.6 KW (1538000-XX-Y) INVERTER [240V]
MODULE: (26) CANADIAN SOLAR CS6R-395MS (395W) MODULES
(9) TESLA PV RAPID SHUTDOWN TSL-1879359-00-X SOLAR MCI-2 1000V
(02) STRINGS OF 09 MODULES, (01) STRING OF 05 MODULES AND
(01) STRING OF 03 MODULES ARE CONNECTED IN SERIES.

NOTE:-ALL DC CONNECTORS TO MODULES OR INVERTER MUST BE OF MATCHING MANUFACTURE BRAND AND STYLE. DO NOT USE 'COMPATIBLE' CONNECTORS WHICH HAVE NOT BEEN UL TESTED FOR COMPATIBILITY, PERFORMANCE AND FIRE DAMAGE MAY RESULT FROM MIS-MATCHED CONNECTOR USAGE.



(N) INVERTER SPECIFICATIONS	
MANUFACTURER / MODEL #	TESLA 7.6 KW (1538000-XX-Y) INVERTER [240V]
NOMINAL AC POWER (KW)	7.6
NOMINAL OUTPUT VOLTAGE (AC)	240
NOMINAL OUTPUT CURRENT (A)	32
MAX DC INPUT VOLTAGE (V)	550
MIN DC INPUT VOLTAGE (V)	60
STARTUP VOLTAGE (V)	100

(N) SOLAR MODULE SPECIFICATIONS	
MANUFACTURER / MODEL #	CANADIAN SOLAR CS6R-395MS (395W) MODULES
VMP (V)	30.6
IMP (A)	12.91
VOC (V)	36.6
ISC (A)	13.77
TEMP. COEFF. VOC %/°C	-0.26
TEMP. COEFF. PMAX %/°C	-0.34

SYSTEM OVER-CURRENT PROTECTION DEVICE (OCPD) CALCULATIONS	
INVERTER TYPE	TESLA 7.6 KW (1538000-XX-Y) INVERTER [240V]
# OF INVERTERS	1
MAX CONTINUOUS OUTPUT CURRENT	32A
(# OF INVERTERS) X (MAX CONT. OUTPUT CURRENT) X 125% <= OCPD RATING	
(1 x 32A x 1.25)= 40.00A <= 40A, OK	



Reviewed and approved
Guillermo Acosta-Marum, P.E.
RI Lic. No. 201306
07/20/2026

- 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 NEC 250.58 AND 690.47(A)
 4. PV SOURCE, OUTPUT, AND INVERTER INPUT CIRCUIT WIRING METHODS SHALL COMPLY WITH NEC 690.1
 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 (IF APPLICABLE)
 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

INSTALLER / ELECTRICIAN NOTE:
EC IS TO MEASURE VOLTAGE BEFORE STARTING WORK.
IF RESULT IS ANY OTHER VOLTAGE MEASURED THAN 120/240V IS OBSERVED, DO NOT PROCEED. CONTACT ENGINEER.

METER ID# 199567540

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AHJ: CRANSTON

RTTP
ROOFTOP POWER
275 W NATICK RD SUITE 800, WARWICK,
RI 02886, USA
TEL.NO.(833) 787-7697

1-LINE DIAGRAM & CALCULATIONS

DATE: 7/17/2026
DRAWN BY: ESR

PV-4



HiKu6 Mono PERC

395 W ~ 420 W

CS6R-395|400|405|410|415|420MS

MORE POWER

- Module power up to 420 W
Module efficiency up to 21.5 %
- Lower LCOE & system cost
- Comprehensive LID / LeTID mitigation technology, up to 50% lower degradation
- Better shading tolerance

MORE RELIABLE

- Minimizes micro-crack impacts
- Heavy snow load up to 5400 Pa, wind load up to 2400 Pa*

*Black frame product can be provided upon request.

12 Years Enhanced Product Warranty on Materials and Workmanship*

25 Years Linear Power Performance Warranty*

1st year power degradation no more than 2%
Subsequent annual power degradation no more than 0.55%

*According to the applicable Canadian Solar Limited Warranty Statement.

MANAGEMENT SYSTEM CERTIFICATES*

ISO 9001:2015 / Quality management system
ISO 14001:2015 / Standards for environmental management system
ISO 45001: 2018 / International standards for occupational health & safety
IEC62941: 2019 / Photovoltaic module manufacturing quality system

PRODUCT CERTIFICATES*

IEC 61215 / IEC 61730 / CE / INMETRO / MCS / UKCA
UL 61730 / IEC 61701 / IEC 62716 / IEC 60068-2-68
UNI 9177 Reaction to Fire: Class 1 / Take-e-way



* The specific certificates applicable to different module types and markets will vary, and therefore not all of the certifications listed herein will simultaneously apply to the products you order or use. Please contact your local Canadian Solar sales representative to confirm the specific certificates available for your Product and applicable in the regions in which the products will be used.

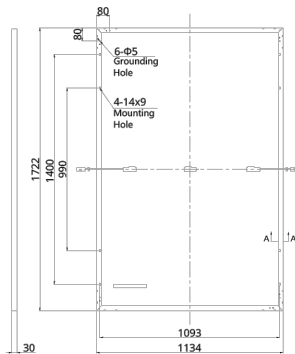
CSI Solar Co., Ltd. is committed to providing high quality solar photovoltaic modules, solar energy and battery storage solutions to customers. The company was recognized as the No. 1 module supplier for quality and performance/price ratio in the IHS Module Customer Insight Survey. Over the past 20 years, it has successfully delivered over 82 GW of premium-quality solar modules across the world.

* For detailed information, please refer to the Installation Manual.

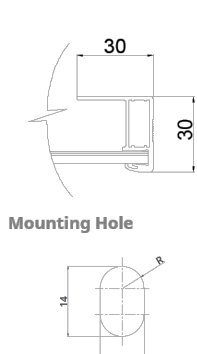
CSI Solar Co., Ltd.
199 Lushan Road, SND, Suzhou, Jiangsu, China, 215129, www.csisolar.com, support@csisolar.com

ENGINEERING DRAWING (mm)

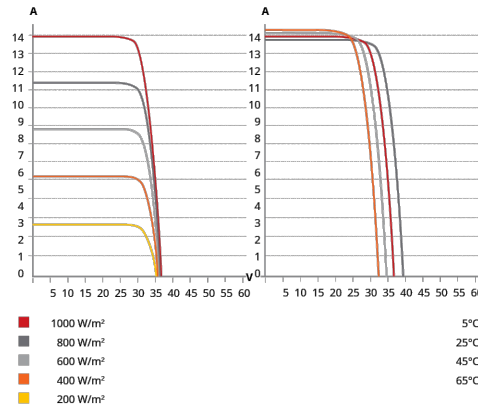
Rear View



Frame Cross Section A-A



CS6R-405MS / I-V CURVES



ELECTRICAL DATA | STC*

CS6R	395MS	400MS	405MS	410MS	415MS	420MS
Nominal Max. Power (Pmax)	395 W	400 W	405 W	410 W	415 W	420 W
Opt. Operating Voltage (Vmp)	30.6 V	30.8 V	31.0 V	31.2 V	31.4 V	31.6 V
Opt. Operating Current (Imp)	12.91 A	12.99 A	13.07 A	13.15 A	13.23 A	13.31 A
Open Circuit Voltage (Voc)	36.6 V	36.8 V	37.0 V	37.2 V	37.4 V	37.6 V
Short Circuit Current (Isc)	13.77 A	13.85 A	13.93 A	14.01 A	14.09 A	14.17 A
Module Efficiency	20.2%	20.5%	20.7%	21.0%	21.3%	21.5%
Operating Temperature	-40°C ~ +85°C					
Max. System Voltage	1500V (IEC/UL) or 1000V (IEC/UL)					
Module Fire Performance	TYPE 1 (UL 61730 1500V) or TYPE 2 (UL 61730 1000V) or CLASS C (IEC 61730)					
Max. Series Fuse Rating	25 A					
Application Classification	Class A					
Power Tolerance	0 ~ + 10 W					

* Under Standard Test Conditions (STC) of irradiance of 1000 W/m², spectrum AM 1.5 and cell temperature of 25°C.

MECHANICAL DATA

Specification	Data
Cell Type	Mono-crystalline
Cell Arrangement	108 [2 X (9 X 6)]
Dimensions	1722 × 1134 × 30 mm (67.8 × 44.6 × 1.18 in)
Weight	21.3 kg (47.0 lbs)
Front Cover	3.2 mm tempered glass with anti-reflective coating
Frame	Anodized aluminium alloy,
J-Box	IP68, 3 bypass diodes
Cable	4 mm² (IEC), 12 AWG (UL)
Connector	T6 or MC4 or MC4-EVO2 or MC4-EVO2A
Cable Length (Including Connector)	Portrait: 410 mm (16.1 in) (+) / 290 mm (11.4 in) (-); landscape: 1100 mm (43.3 in)*
Per Pallet	35 pieces
Per Container (40' HQ)	910 pieces

* For detailed information, please contact your local Canadian Solar sales and technical representatives.

ELECTRICAL DATA | NMOT*

CS6R	395MS	400MS	405MS	410MS	415MS	420MS
Nominal Max. Power (Pmax)	296 W	300 W	304 W	307 W	311 W	315 W
Opt. Operating Voltage (Vmp)	28.7 V	28.9 V	29.1 V	29.2 V	29.4 V	29.6 V
Opt. Operating Current (Imp)	10.33 A	10.39 A	10.45 A	10.52 A	10.58 A	10.65 A
Open Circuit Voltage (Voc)	34.6 V	34.8 V	35.0 V	35.1 V	35.3 V	35.5 V
Short Circuit Current (Isc)	11.09 A	11.15 A	11.21 A	11.28 A	11.34 A	11.41 A

* Under Nominal Module Operating Temperature (NMOT), irradiance of 800 W/m², spectrum AM 1.5, ambient temperature 20°C, wind speed 1 m/s.

TEMPERATURE CHARACTERISTICS

Specification	Data
Temperature Coefficient (Pmax)	-0.34 % / °C
Temperature Coefficient (Voc)	-0.26 % / °C
Temperature Coefficient (Isc)	0.05 % / °C
Nominal Module Operating Temperature	41 ± 3°C

PARTNER SECTION



* The specifications and key features contained in this datasheet may deviate slightly from our actual products due to the on-going innovation and product enhancement. CSI Solar Co., Ltd. reserves the right to make necessary adjustment to the information described herein at any time without further notice.
Please be kindly advised that PV modules should be handled and installed by qualified people who have professional skills and please carefully read the safety and installation instructions before using our PV modules.

CSI Solar Co., Ltd.
199 Lushan Road, SND, Suzhou, Jiangsu, China, 215129, www.csisolar.com, support@csisolar.com

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MODULE DATASHEET

DATE: 7/17/2026
DRAWN BY: ESR

PV-8.1

Tesla Solar Inverter with Site Controller

Tesla Solar Inverter completes the Tesla home solar system, converting DC power from solar to AC power for home consumption. Tesla's renowned expertise in power electronics has been combined with robust safety features and a simple installation process to produce an outstanding solar inverter that is compatible with both Solar Roof and traditional solar panels. Once installed, homeowners use the Tesla mobile app to manage their solar system and monitor energy consumption, resulting in a truly unique ecosystem experience.

- KEY FEATURES
- Built on Powerwall technology for exceptional efficiency and reliability
 - Wi-Fi, Ethernet, and cellular connectivity with easy over-the-air updates
 - Designed to integrate with Tesla Powerwall and Tesla App
 - 0.5% revenue-grade metering for Solar Renewable Energy Credit (SREC) programs included



March 17, 2024

Tesla Solar Inverter Technical Specifications

Electrical Specifications: Output (AC)	Model Number	1538000-xx-y			
	Output (AC) ¹	3.8 kW	5 kW	5.7 kW	7.6 kW
	Nominal Power	3,800 W	5,000 W	5,700 W	7,600 W
	Maximum Apparent Power	3,840 VA	5,040 VA	6,000 VA	7,680 VA
	Maximum Continuous Current	16 A	21 A	24 A	32 A
	Breaker (Overcurrent Protection)	20 A	30 A	30 A	40 A
	Nominal Power Factor	1 - 0.9 (leading / lagging)			
	THD (at Nominal Power)	<5%			

Electrical Specifications: Input (DC)	MPPT	4
	Input Connectors per MPPT	1-2-1-2
	Maximum Input Voltage	600 VDC
	DC Input Voltage Range	60 - 550 VDC
	DC MPPT Voltage Range	60 - 480 VDC ¹
	Maximum Current per MPPT (I _{mp})	13 A ²
	Maximum Short Circuit Current per MPPT (I _{sc})	17 A ²
	¹ Maximum current.	
	² Where the DC input current exceeds an MPPT rating, jumpers can be used to allow a single MPPT to intake additional DC current up to 26 A I _{mp} / 34 A I _{sc} .	

Performance Specifications	Peak Efficiency	98.6% at 240 V
	CEC Efficiency	98.0% at 240 V
	Allowable DC/AC Ratio	1.7
	Customer Interface	Tesla Mobile App
	Internet Connectivity	Wi-Fi (2.4 GHz, 802.11 b/g/n), Ethernet, Cellular (LTE/4G) ³
	Revenue Grade Meter	Revenue Accurate (+/- 0.5%)
	AC Remote Metering Support	Wi-Fi (2.4 GHz, 802.11 b/g/n)
	Protections	Integrated arc fault circuit interrupter (AFCI), Rapid Shutdown
	Supported Grid Types	60 Hz, 240 V Split Phase
	Warranty	12.5 years

³Cellular connectivity subject to network operator service coverage and signal strength.

Tesla Solar Inverter and Solar Shutdown Device Datasheet

2

Tesla Solar Inverter Technical Specifications

Mechanical Specifications	Dimensions	660 mm x 411 mm x 158 mm (26 in x 16 in x 6 in)
	Weight	52 lb ⁴
	Mounting Options	Wall mount (bracket)
⁴ Door and bracket can be removed for a mounting weight of 37 lb.		

Environmental Specifications	Operating Temperature	-30°C to 45°C (-22°F to 113°F) ⁵
	Operating Humidity (RH)	Up to 100%, condensing
	Storage Temperature	-30°C to 70°C (-22°F to 158°F)
	Maximum Elevation	3000 m (9843 ft)
	Environment	Indoor and outdoor rated
	Enclosure Rating	Type 3R
	Ingress Rating	IP55 (Wiring compartment)
	Pollution Rating	PD2 for power electronics and terminal wiring compartment, PD3 for all other components
	Operating Noise @ 1 m	< 40 db(A) nominal, < 50 db(A) maximum
	⁵ Performance may be de-rated to 6.2 kW at 240 V when operating at temperatures greater than 45°C.	

Compliance Information	Grid Certifications	UL 1741, UL 1741 SA, UL 1741 SB, UL 1741 PCS, IEEE 1547-2018, IEEE 1547.1
	Safety Certifications	UL 1741 PVRSS, UL 1699B, UL 1998 (US), UL 3741
	Emissions	EN 61000-6-3 (Residential), FCC 47CFR15.109 (a)

Tesla Solar Inverter and Solar Shutdown Device Datasheet

3

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INVERTER DATASHEET

DATE: 7/17/2026
DRAWN BY: ESR

PV-8.2

Solar Shutdown Device Technical Specifications

The Solar Shutdown Device is a Mid-Circuit Interrupter (MCI) and is part of the PV system rapid shutdown (RSD) function in accordance with Article 690 of the applicable NEC. When paired with Tesla Solar Inverter, solar array shutdown is initiated by any loss of AC power.

Electrical Specifications	Model	MCI-1	MCI-2
	Nominal Input DC Current Rating (I_{MP})	13 A	13 A
	Maximum Input Short Circuit Current (I_{SC})	19 A	17 A
	Maximum System Voltage (PVHCS)	600 V DC	1000 V DC ⁶
	⁶ Maximum System Voltage is limited by Tesla Solar Inverter to 600 V DC.		
RSD Module Performance	Maximum Number of Devices per String	5	5
	Control	Power Line Excitation	Power Line Excitation
	Passive State	Normally Open	Normally Open
	Maximum Power Consumption	7 W	7 W
	Warranty	25 years	25 years
Environmental Specifications	Operating Temperature	-40°C to 50°C (-40°F to 122°F)	-45°C to 70°C (-49°F to 158°F)
	Storage Temperature	-30°C to 70°C (-22°F to 158°F)	-30°C to 70°C (-22°F to 158°F)
	Enclosure Rating	NEMA 4X / IP65	NEMA 4X / IP65
Mechanical Specifications	Electrical Connections	MC4 Connector	MC4 Connector
	Housing	Plastic	Plastic
	Dimensions	125 x 150 x 22 mm (5 x 6 x 1 in)	173 x 45 x 22 mm (6.8 x 1.8 x 1 in)
	Weight	350 g (0.77 lb)	120 g (0.26 lb)
	Mounting Options	ZEP Home Run Clip M4 Screw (#10) M8 Bolt (5/16") Nail / Wood screw	Wire Clip
Compliance Information	Certifications	UL 1741 PVRSE, UL 3741, PVRSA (Photovoltaic Rapid Shutdown Array)	
	RSD Initiation Method	PV System AC Breaker or Switch	
UL 3741 PV Hazard Control (and PVRSA) Compatibility		See Tesla Solar Inverter Installation Manual	

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INVERTER DATASHEET

DATE: 7/17/2026
DRAWN BY: ESR

PV-8.3



Aire® Flush Mount System

Datasheet



Breathe easy with accelerated installations.

The Aire® racking system has been carefully engineered to streamline every part of the installation process. We've eliminated tiresome hassles, so that you get off the roof and on to your next project faster than ever.

Aire® retains the strength and reliability that IronRidge installers depend on. It also takes wire management to the next level with the first (and only) NEC-compliant rail, formally approved and listed as a cable tray.

Strength Tested
All components have been evaluated for superior structural performance.

PE Certified
Pre-stamped engineering letters are available online for most states.

Class A Fire Rating
Certified to maintain the fire resistance rating of the existing roof structure.

Approved Cable Tray
Open channel listed to NEMA VE 1, certified to hold PV and DG cables.

UL 2703 Listed System
Entire system and components meet the latest effective UL 2703 standards.

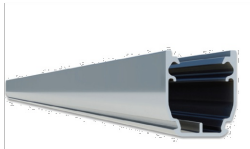
25-Year Warranty
Products are guaranteed to arrive without any impairing defects.

One-Tool System - 1/2" Hex-Head Components

Datasheet

Rails

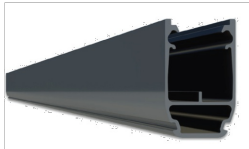
Aire® A1 Rail



The lighter, open Aire® rail for standard conditions.

- 6' spanning capability
- Wire management tray
- Mill or anodized black

Aire® A2 Rail



The tougher, open Aire® rail for higher load capacity.

- 8' spanning capability
- Wire management tray
- Mill or anodized black

Aire® Rail Ties



Structurally connect and bond Aire® Rails together.

- Reinstallable, up to 5x
- Internal splice design
- No more splice rules

Aire® Dock



Connects Aire® Rails to attachments with ease.

- Clicks on, slides easily
- Drops into open slots
- Anodized assembly

Clamps & Grounding

Aire® Lock Mids



Securely bond between modules to Aire® Rails.

- Fits 30-40mm modules
- Utilizes UFO® design
- Minimal 1/2" gap

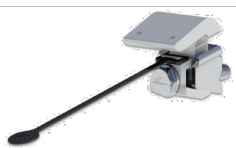
Aire® Lock Ends



Securely bond modules to Aire® Rails along ends.

- Fits 30-40mm modules
- Easy rail engagement
- Clean aesthetics

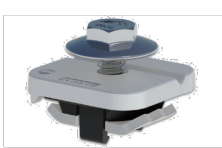
Aire® Lock Stealth®



Securely bonds modules to rail ends, entirely hidden.

- Angled for easy install
- Robust tether leash
- Fits most modules

Aire® Lug



Bonds Aire® Rails to grounding conductors.

- Simplified with single bolt
- Low-profile form factor
- Works with 10-6 AWG

Accessories

Aire® Caps



Block entry and provide a finished look to Aire® Rails.

- Stay secure on rail ends
- Symmetrical, with drain
- Cover rough-cut ends

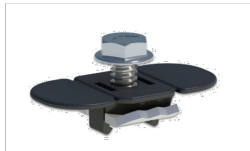
Aire® Clip



Keeps wiring contained in open Aire® Rail channels.

- No module interference
- Simple press-in design
- Slot for easy removal

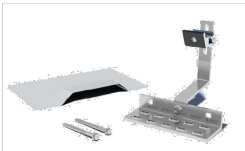
Aire® MLPE Mount



Securely bonds MLPE and accessories to Aire® Rails.

- Glove-friendly installation
- Lays flush in rail channel
- Low profile form factor

Aire® All Tile Hook



Attaches rails to tile roofs, with Aire® Dock included.

- Works on flat, S, & W tiles
- Single-socket installation
- Optional deck flashing

Resources



Design Assistant
Quickly go from rough layout to fully engineered system.
[Go to IronRidge.com/design](https://www.ironridge.com/design)



Approved for FL Hurricane Zones
Aire® has Florida Product Approval. Additional details can be found on the Florida Building Code website.
[Learn More at bit.ly/florida-aire](https://bit.ly/florida-aire)

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RACKING DATASHEET

DATE: 7/17/2026
DRAWN BY: ESR

PV-8.4



QuickMount® Halo UltraGrip®

Cut Sheet

Release Liner shown for reference

RD STRUCTURAL SCREW PN RD-1430-01-M1
SOLD SEPARATELY
SHOWN FOR REFERENCE

ITEM NO	DESCRIPTION	QTY IN KIT
1	QM Halo UltraGrip(Mill or Black)	1

PART NUMBER	DESCRIPTION
QM-HUG-01-M1	Halo UltraGrip - Mill
QM-HUG-01-B1	Halo UltraGrip - Black

Cut Sheet

1. Halo UltraGrip

Dimensions: 3.35, .38, 3.83, 1.63, .40, 1.56, .34, 3.00, $\phi .26$

Property	Value
Material	300 Series Aluminium
Finish	Mill or Black

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ATTACHMENT DATASHEET

DATE: 7/17/2026
DRAWN BY: ESR

PV-8.5



Tilt Mount System



Trust your system at every angle.

The IronRidge Tilt Mount System supports a wide range of solar module tilting angles, while also resisting the extreme wind and snow forces experienced over a building’s lifetime.

Every component has been carefully engineered and rigorously tested, and the entire system uses only aluminum and stainless steel materials to resist corrosion.



Roof Friendly

Lightweight and compatible with industry-standard attachments.



PE Certified

Pre-stamped engineering letters available in most states.



Strength Tested

All components evaluated for superior structural performance.



Design Assistant

Online software makes it simple to create, share, and price projects.



UL 2703 Listed System

Meets newest effective UL 2703 standard.



25-Year Warranty

Products guaranteed to be free of impairing defects.

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ATTACHMENT DATASHEET

DATE: 7/17/2026
DRAWN BY: ESR

PV-8.6

XR Rails & Tilt Legs

XR Rails



Attach directly to Tilt Legs. Available in three targeted sizes to support specific wind and snow loads.

- Unique curved profile
- Spanning capabilities up to 12'
- Clear and black finish

Tilt Legs



Tilt assembly to desired angle, up to 30 degrees. Kits include South and North Tilt Leg and all hardware.

- Available in multiple lengths for a wide angle range
- Assembled South Tilt Legs include angle indicators
- Legs are electrically bonded to rails

Grounding Clamps

UFOs



Universal Fastening Objects secure and bond modules to rails.

- Fully assembled and lubricated
- Single, universal size
- Clear and black finish

Stopper Sleeves



Snap onto the UFO to transform into a bonded end clamp.

- Bonds modules to rails
- Sized to match modules
- Clear and black finish

CAMO

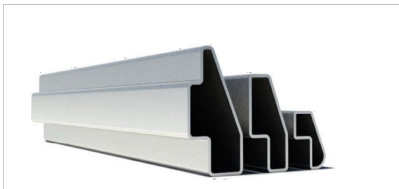


Bond modules to rails while staying completely hidden.

- Universal end-cam clamp
- Tool-less installation
- Fully assembled

Accessories

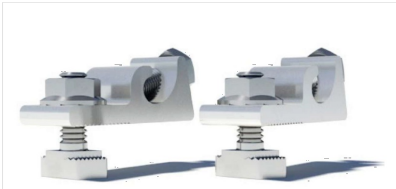
BOSS™ Bonded Splices



Bonded Structural Splices connect and bond XR Rails together.

- Integrated bonding
- No tools or hardware
- Self-centering stop tab

Grounding Lugs



Connects Tilt Mount system to equipment ground.

- Low profile
- Single tool installation
- Mounts in any direction

Ends Caps & Wire Clips



Provide a finished look and organize electrical wires.

- Simple snap-in installations
- Clips hold up to ten 5mm wires
- UV-stabilized polymer

Resources



Design Assistant
Go from rough layout to fully engineered system. For free.
[Go to IronRidge.com/design](https://www.ironridge.com/design)



NABCEP Certified Training
Earn free continuing education credits, while learning more about our systems.
[Go to IronRidge.com/training](https://www.ironridge.com/training)

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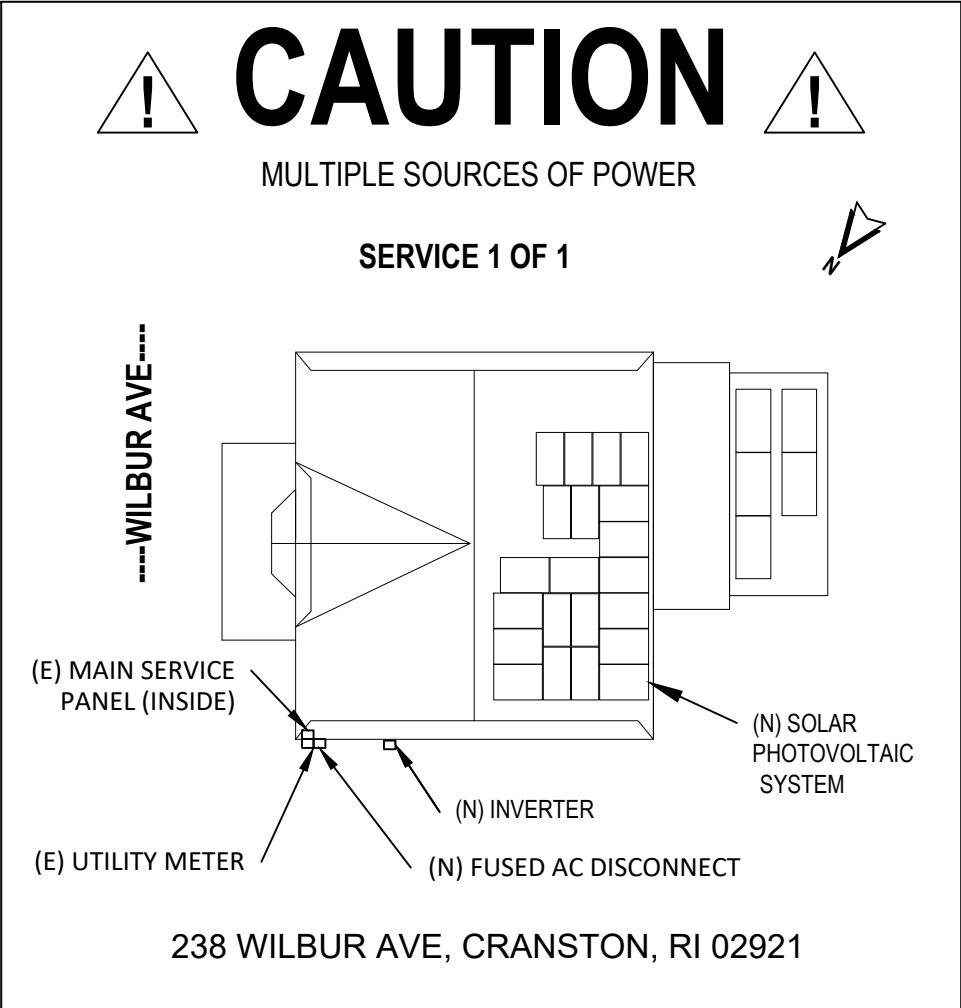
AHJ: CRANSTON


ROOFTOP POWER
275 W NATICK RD SUITE 800, WARWICK,
RI 02886, USA
TEL: NO. (833) 787-7697

ATTACHMENT DATASHEET

DATE: 7/17/2026
DRAWN BY: ESR

PV-8.7



Reviewed and approved
Guillermo Acosta-Marum, P.E.
RI Lic. No. 201306
07/20/2026

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PLACARD

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PV-9