



**City of Poughkeepsie
Historic District and Landmarks Preservation Commission
Meeting Agenda**

Common Council Chambers

Thursday, July 9, 2026

6:00 PM

I. ROLL CALL

1. Roll call of members and staff

II. APPROVAL OF MEETING MINUTES

1. Approval of June 11, 2026 Minutes

III. COMMISSION BUSINESS

1. Vice-Chair Selection
2. Other Business

IV. APPLICATIONS FOR CERTIFICATE OF APPROPRIATENESS

1. **104 ACADEMY STREET:** Application for Certificate of Appropriateness for the placement of solar panels on the roof of the single family dwelling. Owner: Haeng Soo Lee; Applicant/Consultant: Trinity Solar - Sarah Yarbrough; Zoning District: RNA; Grid #6161-21-046908; PD2026-034

V. ADJOURNMENT

1. Adjourn to August 13, 2026



**City of Poughkeepsie
Historic District and Landmarks Preservation Commission
Meeting Agenda**

Common Council Chambers
Thursday, June 11, 2026
6:00 PM

I. ROLL CALL

Present: Anthony LaRocca as Acting Chair, John Bartlestone, Ashira King-Wilson, Elisa Li, Kyle Neiswender
Staff: Judith Knauss, Deputy Zoning Administrator

II. APPROVAL OF MEETING MINUTES

The minutes from April 9, 2026 were approved unanimously on a motion by Ashira King-Wilson, seconded by Elisa Li.

1. Approval of April 9, 2026 Minutes

III. APPLICATIONS FOR CERTIFICATE OF APPROPRIATENESS

As the applicant, Kyle Neiswender recused himself as a voting member of the Commission. Following his presentation, the application was unanimously approved on a motion by Anthony LaRocca, seconded by Elisa Li.

1. 8 GARFIELD PLACE: Application for Certificate of Appropriateness for replacement of gutters and downspouts on the front (east) and rear (west) porches of the single family dwelling. Owner/Applicant: Kyle Neiswender; Grid #6161-21-004917; Zoning District: RNA; HDLPC #2026-007

IV. COMMISSION BUSINESS

There was no new business.

V. ADJOURNMENT

The meeting was adjourned at approximately 6:30pm on a motion by Kyle

Neiswender.

1. Adjourn to July 9, 2026.

South West side of home



North East side of home

West side of home



East side of home

South East side of home



North East side of home

104 Academy St
Property Photos



South side of home

Poughkeepsie City, NY
City Hall-2nd Floor, 62 Civic Center Plaza
Poughkeepsie, NY 12601

**104 Academy St
Poughkeepsie, NY 12601**

To the Building Official:

This evaluation assesses the capacity of the existing roof framing to support the additional loads from the proposed photovoltaic (PV) system. Trinity Solar, LLC has confirmed the structure is permitted by the local jurisdiction and has provided all relevant documentation. As of the evaluation date, no deficiencies in the structure have been reported. Based on the provided documentation and lack of reported concerns, the existing structure is evaluated as being in good condition and capable of supporting the existing loads. If new information or evidence indicates structural deficiencies, this office must be notified immediately, and installation must cease until the concerns are addressed. This evaluation is strictly limited to structural elements directly supporting the PV system and excludes unrelated components. All spans listed below are horizontal projections.

1. Existing Roof Framing:

- Conventional roof framing at R1: 2x6 at 24"o.c.; existing rafter span is the max unsupported span = 14'-0"

2. Roof Loading:

- 3.00psf - PV array load (PV panels, mounting rails, and hardware)
- 4.49psf - Existing roof dead load (0.98psf - 2x6 at 24"o.c. roof rafters, 3.51psf - single layer asphalt shingle roof covering)
- 64psf - Ground snow load - per ASCE Hazard Tool; 20psf - Roof live load
- Exposure Category B, 113mph basic wind speed, 120mph design wind speed

3. Existing Roof Modification:

- R1 - PER 2025 EBCNYS 502.4, increase in design load is less than 5%; not required to meet code requirements for new structure. However, sister rafters exceeding spans of 7'-4" with (1)2x6s (min) and install a "strongback". Alternatively, install knee wall(s) to limit rafter span to 7'-4".
~Sister: To extend the full-length and terminate before the support connection. Non-full-length must overlap at least 24". Use 10d nails, staggered top and bottom, at 12"o.c. and 6" o.c. within the overlap on both sides. Unstaggered nails at ends. For multiple sisters, install on alternating sides.
~Knee wall: Construct 2x4 wall(s) with vertical supports beneath each rafter, spaced $\leq 24"$ o.c. For rafters $> 24"$ o.c., place an additional midspan support. Max 30° offset from vertical. Position the sole plate within 1'-0" of the bearing wall. Secure plates to rafters and joists with (2)10d nails; toe-nail studs to plates with (2)10d nails.
~Strongback: Install an L-shaped profile made from (2)2x4s or larger within 1'-0" of bearing wall to limit rafter span as specified. Both boards must rest on the ceiling joists or floor. Secure legs with min. 10d nails at 8" o.c.. Attach to each ceiling joist with a min. (1)10d nail.

4. Attachments:

- The maximum allowable spacing of the ECOFASTEN - SMART FOOT* attachments cannot exceed more than 48" / 48" (EXPOSED / NON-EXPOSED) for R1. Attachments to be fastened using min. quantity (2) Structural Screws (#14 for rail, #12 for rail-less), min. 3" long, with 2.5" min. penetration depth into the structural member is required - this is adequate to resist all stated demand loads above. Install attachments, rails, and panels per manufacturer requirements. In multi-row PV layouts, there shall be a minimum of two mounting brackets per rafter/truss chord. Stagger attachments to distribute load. If fewer than (2) fasteners penetrate the rafter, treat the attachment as deck-mounted, secure with (6) fasteners to the deck, and backtrack one rafter span to maintain the maximum allowable spacing of rafter attachments before continuing layout.
~ECOFASTEN - SMART FOOT - *ATTACHMENT TO BE SECURED TO RAFTERS $\geq 2 \times 4$. ONLY INSTALL ATTACHMENT ON ASPHALT SHINGLE ROOFS OF SLOPES $\geq 2:12$ (9.46°) WITH $\geq 7/16"$ DECK.
• CONTRACTOR TO INFORM THIS OFFICE IF ANY ITEM ABOVE DIFFERS FROM SITE CONDITIONS.

The installation, described above, is in general conformance with the manufacturers' specifications and complies with all applicable laws, codes, and ordinances as specified by applicable codes, including the 2025 Residential Code of New York State and ASCE 7-22.

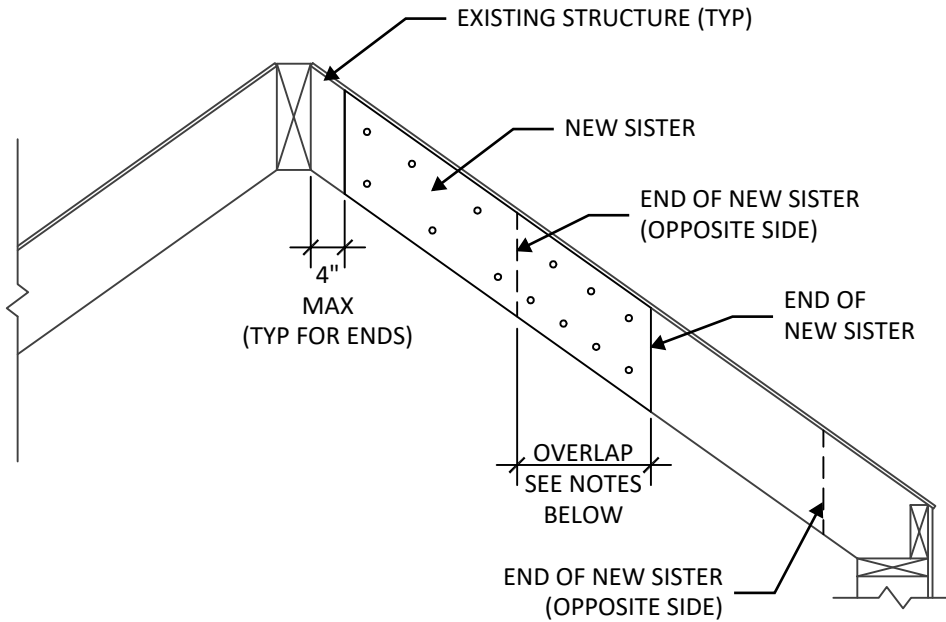
Only the portions of the roof directly involved in the PV installation are evaluated. Trinity Solar is not responsible for pre-existing construction defects in other areas of the structure. IF, AT ANY TIME DURING INSTALLATION, THE ROOF FRAMING MEMBERS OR ROOF COVERING APPEAR UNSTABLE OR EXHIBIT NON-UNIFORM DEFLECTION, THE CONTRACTOR SHALL NOTIFY THIS OFFICE IMMEDIATELY AND AWAIT FURTHER GUIDANCE BEFORE PROCEEDING.

Regards,
Ayracon Almaraz, PE
Structural Engineer - Trinity Solar



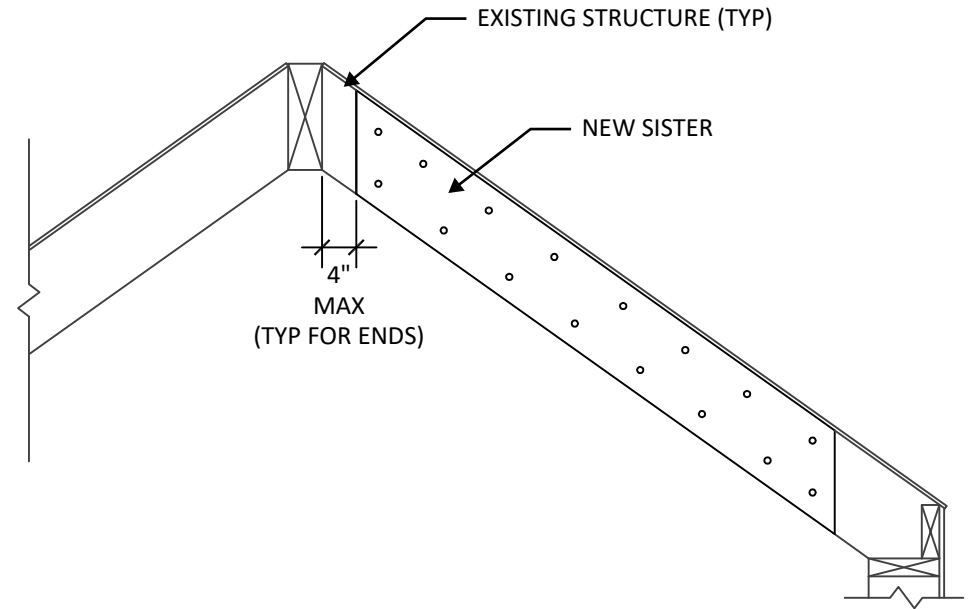
License No. 100315, EXP 12/31/2026: IT IS A VIOLATION FOR ANY PERSON, UNLESS HE OR SHE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY; ARTICLE 145

Trinity Solar | 62 Leone Lane | Chester, NY | (845) 572-0060



SISTER NON-FULL-LENGTH DETAIL

SCALE: NOT TO SCALE



SISTER FULL-LENGTH DETAIL

SCALE: NOT TO SCALE

NOTE: REFERENCE STRUCTURAL ENGINEERING LETTER FOR SISTER TYPE REQUIREMENT BELOW

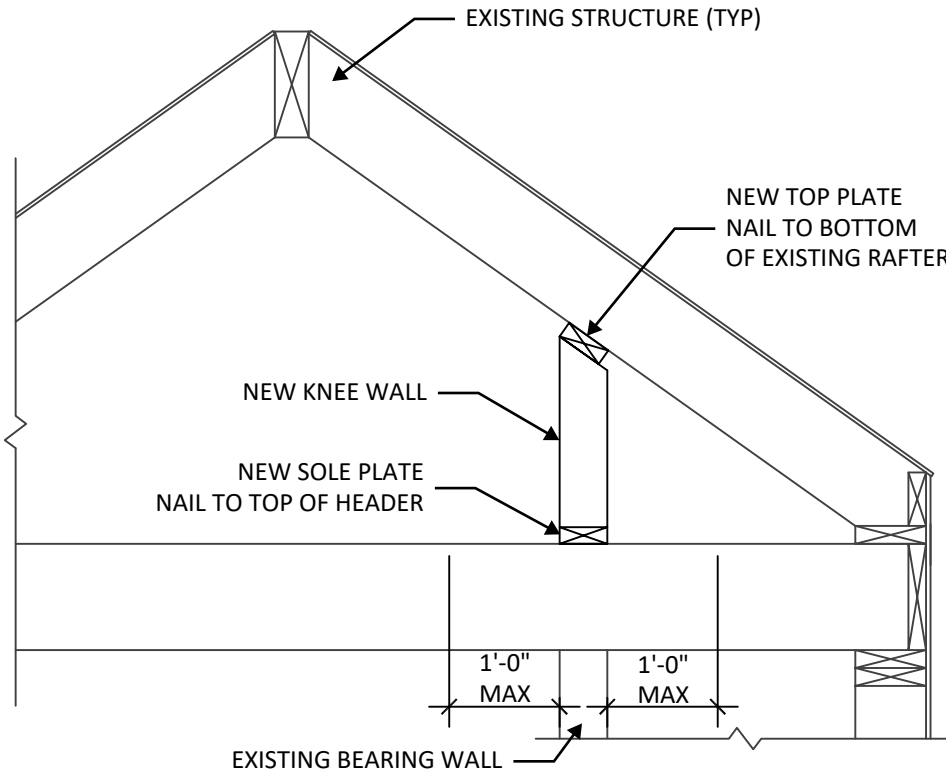
~Sister: To extend the full-length and terminate before the support connection. Non-full-length must overlap at least 24". Use 10d nails, staggered top and bottom, at 12" o.c. and 6" o.c. within the overlap on both sides. Unstaggered nails at ends. For multiple sisters, install on alternating sides.

~Sister (one size larger than rafter): To extend the full-length and terminate before the support connection. Non-full-length must overlap at least 30". Use 10d nails, staggered top and bottom, at 8" o.c., and 4" o.c. within the overlap on both sides. Unstaggered nails at ends. For multiple sisters, install on alternating sides.

~Sister (two+ sizes larger than rafter): To extend the full-length and terminate before the support connection. Non-full-length is not allowed. Use 10d nails, staggered top and bottom, at 6" o.c. Unstaggered nails at ends. For multiple sisters, install on alternating sides.

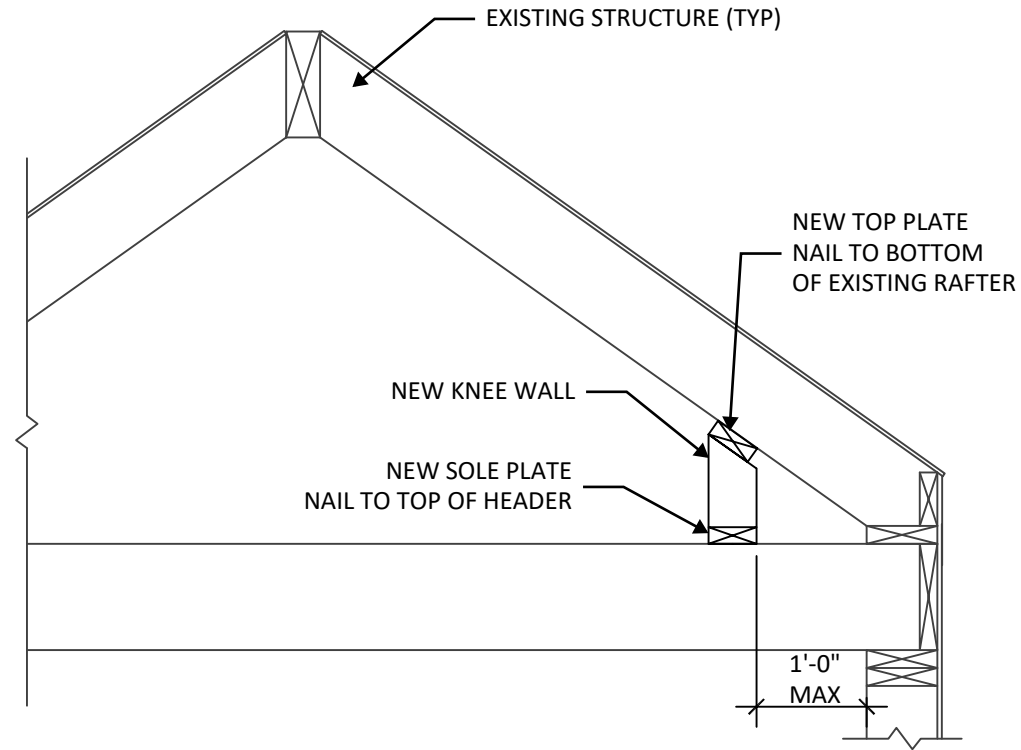


Exp: 12/31/2026



KNEE WALL ON BEARING WALL DETAIL

SCALE: NOT TO SCALE

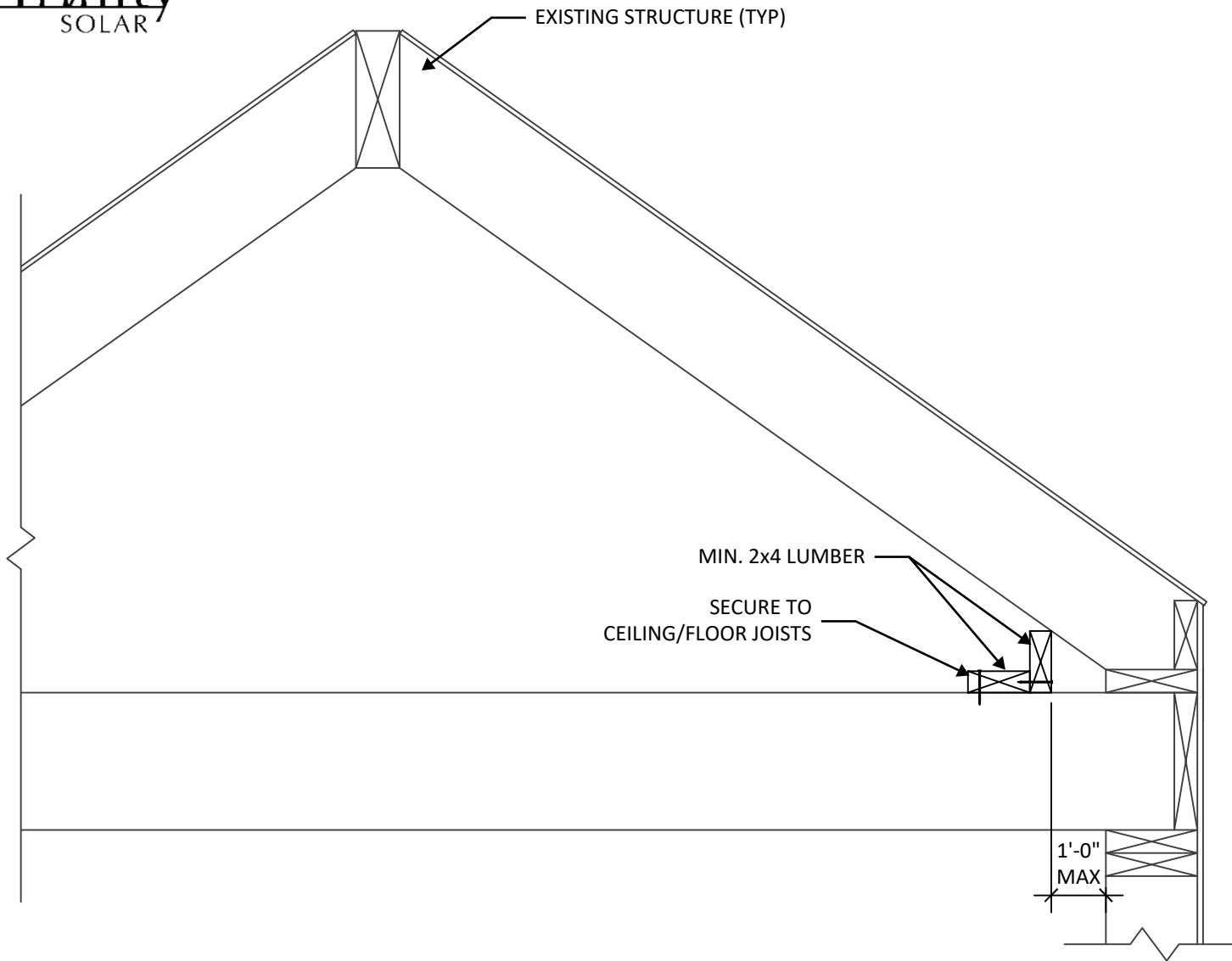


KNEE WALL NEAR BEARING WALL DETAIL

SCALE: NOT TO SCALE

NOTE: KNEE WALL TO LIMIT RAFTER SPAN PER STRUCTURAL ENGINEERING LETTER

~Knee wall: Construct 2x4 wall(s) with vertical supports beneath each rafter, spaced $\leq 24"$ o.c. For rafters $> 24"$ o.c., place an additional midspan support. Max 30° offset from vertical. Position the sole plate within 1'-0" of the bearing wall. Secure plates to rafters and joists with (2)10d nails; toe-nail studs to plates with (2)10d nails.



STRONGBACK DETAIL

SCALE: NOT TO SCALE

NOTE: STRONGBACK TO LIMIT RAFTER SPAN PER STRUCTURAL ENGINEERING LETTER.

ORIENTATION CAN BE MIRRORED.

~Strongback: Install an L-shaped profile made from (2)2x4s or larger within 1'-0" of bearing wall to limit rafter span as specified. Both boards must rest on the ceiling joists or floor. Secure legs with min. 10d nails at 8" o.c.. Attach to each ceiling joist with a min. (1)10d nail.



**THE CITY OF POUGHKEEPSIE
DEVELOPMENT DEPARTMENT**

62 CIVIC CENTER PLAZA, POUGHKEEPSIE, NY 12601

Phone: (845)451-4263

Office Use Only

ID# 004130

NOTE: The City of Poughkeepsie never request payment for an application to the Historic & Landmarks Preservation Commission

**HISTORIC DISTRICT AND LANDMARKS PRESERVATION COMMISSION
APPLICATION**

(Type or print neatly. Illegible and faxed applications will not be accepted.)

PD-2026-034

Project Address: 104 Academy St Poughkeepsie NY 12601

Applicant Name: Trinity Solar- Sarah Yarbrough

Applicant's Address: 2180 5th Ave, Unit 1

City: Ronkonkoma State: NY Zip: 11779

Phone Number(s): 631-319-7233 Email: permitting.ny@trinity-solar.com

Property Owner (if not the applicant): Haeng Soo Lee - Please see attached Homeowners Authorization Form
(If applicant is not the property owner, a letter of authorization from the owner **MUST** accompany the application.)

PROJECT CLASSIFICATION (Check all boxes that apply to the proposed project):

- New construction (construction of a new building, addition, garage, shed, swimming pool, etc.)
- Exterior alteration (includes, but is not limited to, all exterior changes to windows, doors, roof, paint colors, etc.)
- Landscaping (removing or adding significant plantings or landscape features such as driveways, sidewalks, fencing, retaining walls, patios, etc., that will alter the appearance of the property)
- Repair or replacement
- Restoration (railings, balconies, cornices, porches, etc.)
- Relocation
- Demolition
- Other: Solar Panel Installation

JUN 22 2026

RECEIVED

WORK DESCRIPTION: Describe in detail all proposed work and indicate all materials to be used. Attach additional sheets as necessary.

Installation of a utility approved, grid inter-tied, flush mount, roof mounted, 12 Hanwha 410 solar panels, 4.92 kW photo voltaic electricity generating system. Also, Replace 100A Central Hudson OH service wire, meter, tap box. Also, Rafter Sister Reinforcement.

REQUIRED ATTACHMENTS TO SUBMIT WITH THE APPLICATION (Submit "hard" copies of the following attachments. Each page must be labeled and dated):

- ✓ **Recent Color Photos:** Include photos of each side of the building and site when landscaping changes are proposed.
- ✓ **Color chips, charts or color samples:** Describe both existing color(s) and proposed color(s). Include details regarding color placement and paint chips with the manufacturer's name and color number.
- ✓ **Material Samples/Manufacturer's Brochures:** Material samples (when practical) and/or manufacturer's brochures, product literature or catalog pages.
- ✓ **Plot Plan:** A plot plan (drawn to scale, indicating property lines, existing structures and/or landscaping) must be included for new construction, additions, demolition, fencing and major landscaping projects and any proposed changes.
- ✓ **Elevation drawings for new constructions/additions:** Drawings at a scale necessary to show building detail. Elevations should be accurately labeled with cardinal directions and showing the relationship between new and old structures.

A DIGITAL COPY OF THE ENTIRE SUBMISSION IS REQUIRED.

OWNER/APPLICANT CERTIFICATION:

I hereby certify this application will not be reviewed until all required information has been submitted. I understand that this application may require a site visit and/or public hearing by the Historic District and Landmarks Preservation Commission, and that the HDLPC may request additional information.

Please see attached Homeowners Authorization Form

Signature of Owner

Date: 6/18/26

Signature of Agent/Applicant

Date: 6/18/26

OFFICE USE ONLY

- Application requires approval by the HDLPC, pursuant to the provisions of Section 19-5.21(4)
- Application does not require approval by the HDLPC, pursuant to the provisions of Section 19-5.21(12)(a)
- Work will require issuance of a building permit, pursuant to the provisions of Section 19-9.2
- Work will not require issuance of a building permit, pursuant to the provisions of Section 19-9.2


Eric Philipp
Building Inspector/Zoning Administrator

6-26-26
Date

JUN 22 2026

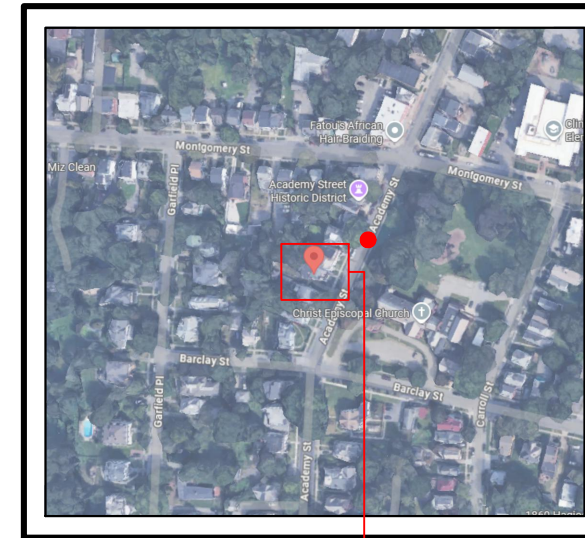
2

RECEIVED

INSTALLATION OF NEW ROOF MOUNTED PV SOLAR SYSTEM

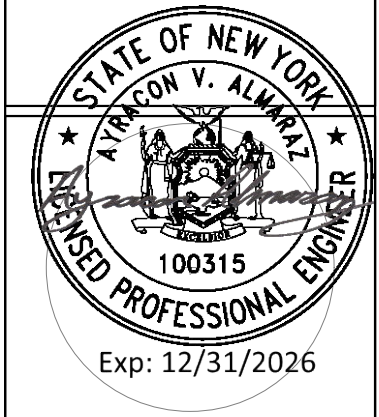
104 ACADEMY ST POUGHKEEPSIE, NY 12601

ACADEMY ST ●



VICINITY MAP
SCALE: NTS

SITE



Issued / Revisions

NO.	DESCRIPTION	DATE
R1	REVISION	4/16/2026
P1	ISSUED TO TOWNSHIP FOR PERMIT	4/15/2026

Project Title:
LEE, HAENG SOO-
TRINITY ACCT #: 2026-04-1531688

Project Address:
104 ACADEMY ST
POUGHKEEPSIE, NY 12601
41.6986, -73.9282

Drawing Title:
PROPOSED PV SOLAR SYSTEM

Drawing Information
DRAWING DATE: 4/15/2026
DRAWN BY: BL
REVISED BY: BL

System Information:
DC SYSTEM SIZE: 4.92kW
AC SYSTEM SIZE: 3.8kW
MODULE COUNT: 12
MODULES USED: HANWHA 410
MODULE SPEC #: Q.PEAK DUO BLK ML-G10.C+ 410
UTILITY COMPANY: CENTRAL HUDSON G&E
UTILITY ACCT #: 21005960600
UTILITY METER #: 73005006
DEAL TYPE: LIGHTREACH

Rev. No.	Sheet
R1	PV - 1



2211 Allenwood Road Wall, New Jersey 07719 877-786-7283 www.Trinity-Solar.com

GENERAL NOTES

- THE INSTALLATION CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL EQUIPMENT AND FOLLOWING ALL DIRECTIONS AND INSTRUCTIONS CONTAINED IN THE DRAWING PACKAGE AND INFORMATION RECEIVED FROM TRINITY.
- THE INSTALLATION CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL EQUIPMENT AND FOLLOWING ALL DIRECTIONS AND INSTRUCTION CONTAINED IN THE COMPLETE MANUAL.
- THE INSTALLATION CONTRACTOR IS RESPONSIBLE FOR READING AND UNDERSTANDING ALL DRAWINGS, COMPONENT AND INVERTER MANUALS PRIOR TO INSTALLATION. THE INSTALLATION CONTRACTOR IS ALSO REQUIRED TO HAVE ALL COMPONENT SWITCHES IN THE OFF POSITION AND FUSES REMOVED PRIOR TO THE INSTALLATION OF ALL FUSE BEARING SYSTEM COMPONENTS.
- ONCE THE PHOTOVOLTAIC MODULES ARE MOUNTED, THE INSTALLATION CONTRACTOR SHOULD HAVE A MINIMUM OF ONE ELECTRICIAN WHO HAS ATTENDED A SOLAR PHOTOVOLTAIC INSTALLATION COURSE ON SITE.
- FOR SAFETY, IT IS RECOMMENDED THAT THE INSTALLATION CREW ALWAYS HAVE A MINIMUM OF TWO PERSONS WORKING TOGETHER AND THAT EACH OF THE INSTALLATION CREW MEMBERS BE TRAINED IN FIRST AID AND CPR.
- THIS SOLAR PHOTOVOLTAIC SYSTEM IS TO BE INSTALLED FOLLOWING THE CONVENTIONS OF THE NATIONAL ELECTRICAL CODE. ANY LOCAL CODE WHICH MAY SUPERSEDE THE NEC SHALL GOVERN.
- ALL SYSTEM COMPONENTS TO BE INSTALLED WITH THIS SYSTEM ARE TO BE "UL" LISTED. ALL EQUIPMENT WILL BE NEMA 3R OUTDOOR RATED UNLESS INDOORS.

GENERAL NOTES

IF ISSUED DRAWING IS MARKED WITH A REVISION CHARACTER OTHER THAN "A", PLEASE BE ADVISED THAT FINAL EQUIPMENT AND/OR SYSTEM CHARACTERISTICS ARE SUBJECT TO CHANGE DUE TO AVAILABILITY OF EQUIPMENT.

GENERAL NOTES CONTINUED

- THE DC VOLTAGE FROM THE PANELS IS ALWAYS PRESENT AT THE DC DISCONNECT ENCLOSURE AND THE DC TERMINALS OF THE INVERTER DURING DAYLIGHT HOURS. ALL PERSONS WORKING ON OR INVOLVED WITH THE PHOTOVOLTAIC SYSTEM ARE WARNED THAT THE SOLAR MODULES ARE ENERGIZED WHENEVER THEY ARE EXPOSED TO LIGHT.
- ALL PORTIONS OF THIS SOLAR PHOTOVOLTAIC SYSTEM SHALL BE MARKED CLEARLY IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE ARTICLE 690 & 705.
- PRIOR TO THE INSTALLATION OF THIS PHOTOVOLTAIC SYSTEM, THE INSTALLATION CONTRACTOR SHALL ATTEND A PRE-INSTALLTION MEETING FOR THE REVIEW OF THE INSTALLATION PROCEDURES, SCHEDULES, SAFETY AND COORDINATION.
- PRIOR TO THE SYSTEM START UP THE INSTALLATION CONTRACTOR SHALL ASSIST IN PERFORMING ALL INITIAL HARDWARE CHECKS AND DC WIRING CONDUCTIVITY CHECKS.
- FOR THE PROPER MAINTENANCE AND ISOLATION OF THE INVERTERS REFER TO THE ISOLATION PROCEDURES IN THE OPERATION MANUAL.
- THE LOCATION OF PROPOSED ELECTRIC AND TELEPHONE UTILITIES ARE SUBJECT TO FINAL APPROVAL OF THE APPROPRIATE UTILITY COMPANIES AND OWNERS.
- ALL MATERIALS, WORKMANSHIP AND CONSTRUCTION FOR THE SITE IMPROVEMENTS SHOWN HEREIN SHALL BE IN ACCORDANCE WITH:
 - CURRENT PREVAILING MUNICIPAL AND/OR COUNTY SPECIFICATIONS, STANDARDS AND REQUIREMENTS

GENERAL NOTES CONTINUED

- B) CURRENT PREVAILING UTILITY COMPANY SPECIFICATIONS, STANDARDS, AND REQUIREMENTS
- THIS SET OF PLANS HAVE BEEN PREPARED FOR THE PURPOSE OF MUNICIPAL AND AGENCY REVIEW AND APPROVAL. ONCE APPROVED, THE INSTALLATION CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL SYSTEM COMPONENTS AS DESCRIBED IN THE DRAWING PACKAGE.
- ALL INFORMATION SHOWN MUST BE CERTIFIED PRIOR TO USE FOR CONSTRUCTION ACTIVITIES.

ABBREVIATIONS

- | | |
|------|---|
| AMP | AMPERE |
| AC | ALTERNATING CURRENT |
| AL | ALUMINUM |
| AF | AMP. FRAME |
| AFF | ABOVE FINISHED FLOOR |
| AFG | ABOVE FINISHED GRADE |
| AWG | AMERICAN WIRE GAUGE |
| C | CONDUIT (GENERIC TERM OF RACEWAY, PROVIDE AS SPECIFIED) |
| CB | COMBINER BOX |
| CKT | CIRCUIT |
| CT | CURRENT TRANSFORMER |
| CU | COPPER |
| DC | DIRECT CURRENT |
| DISC | DISCONNECT SWITCH |
| DWG | DRAWING |
| EC | ELECTRICAL SYSTEM INSTALLER |
| EMT | ELECTRICAL METALLIC TUBING |
| FS | FUSIBLE SWITCH |
| FU | FUSE |
| GND | GROUND |
| GFI | GROUND FAULT INTERRUPTER |
| HZ | FREQUENCY (CYCLES PER SECOND) |

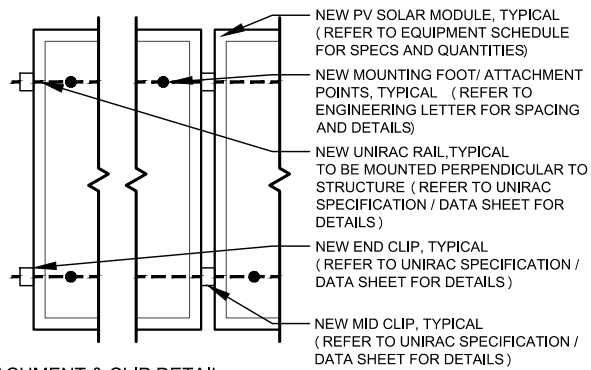
ABBREVIATIONS CONTINUED

- | | |
|--------|--|
| JB | JUNCTION BOX |
| KCMIL | THOUSAND CIRCULAR MILS |
| KVA | KILO-VOLT AMPERE |
| KW | KILO-WATT |
| KWH | KILO-WATT HOUR |
| L | LINE |
| MCB | MAIN CIRCUIT BREAKER |
| MDP | MAIN DISTRIBUTION PANEL |
| MLO | MAIN LUG ONLY |
| MTD | MOUNTED |
| MTG | MOUNTING |
| N | NEUTRAL |
| NEC | NATIONAL ELECTRICAL CODE |
| NIC | NOT IN CONTRACT |
| NO # | NUMBER |
| NTS | NOT TO SCALE |
| OCP | OVER CURRENT PROTECTION |
| P | POLE |
| PB | PULL BOX |
| PH ∅ | PHASE |
| PVC | POLY-VINYL CHLORIDE CONDUIT |
| PWR | POWER |
| QTY | QUANTITY |
| RGS | RIGID GALVANIZED STEEL |
| SN | SOLID NEUTRAL |
| JSWBD | SWITCHBOARD |
| TYP | TYPICAL |
| U.O.I. | UNLESS OTHERWISE INDICATED |
| WP | WEATHERPROOF |
| XFMR | TRANSFORMER |
| +72 | MOUNT 72 INCHES TO BOTTOM OF ABOVE FINISHED FLOOR OR GRADE |

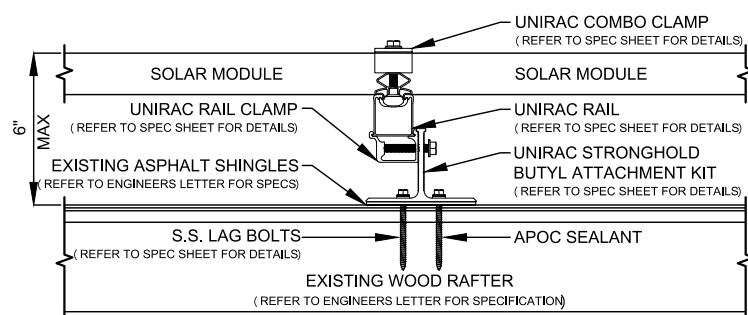
SHEET INDEX

- PV-1 COVER SHEET W/ SITE INFO & NOTES
- PV-2 ROOF PLAN W/ MODULE LOCATIONS
- PV-3 ELECTRICAL 3 LINE DIAGRAM
- AP APPENDIX

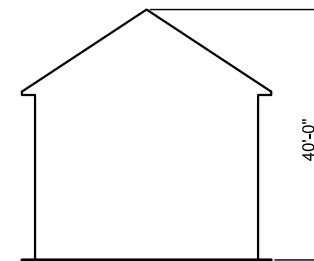
NOTES : *REFER TO MODULE SPECS FOR MODULE DIMENSIONS
 *DEPICTED MODULES MAY BE PORTRAIT OR LANDSCAPE



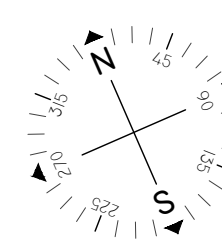
ATTACHMENT & CLIP DETAIL
 SCALE: NOT TO SCALE



PV MODULE ATTACHMENT ON ASPHALT SHINGLED ROOF
 SCALE: NOT TO SCALE



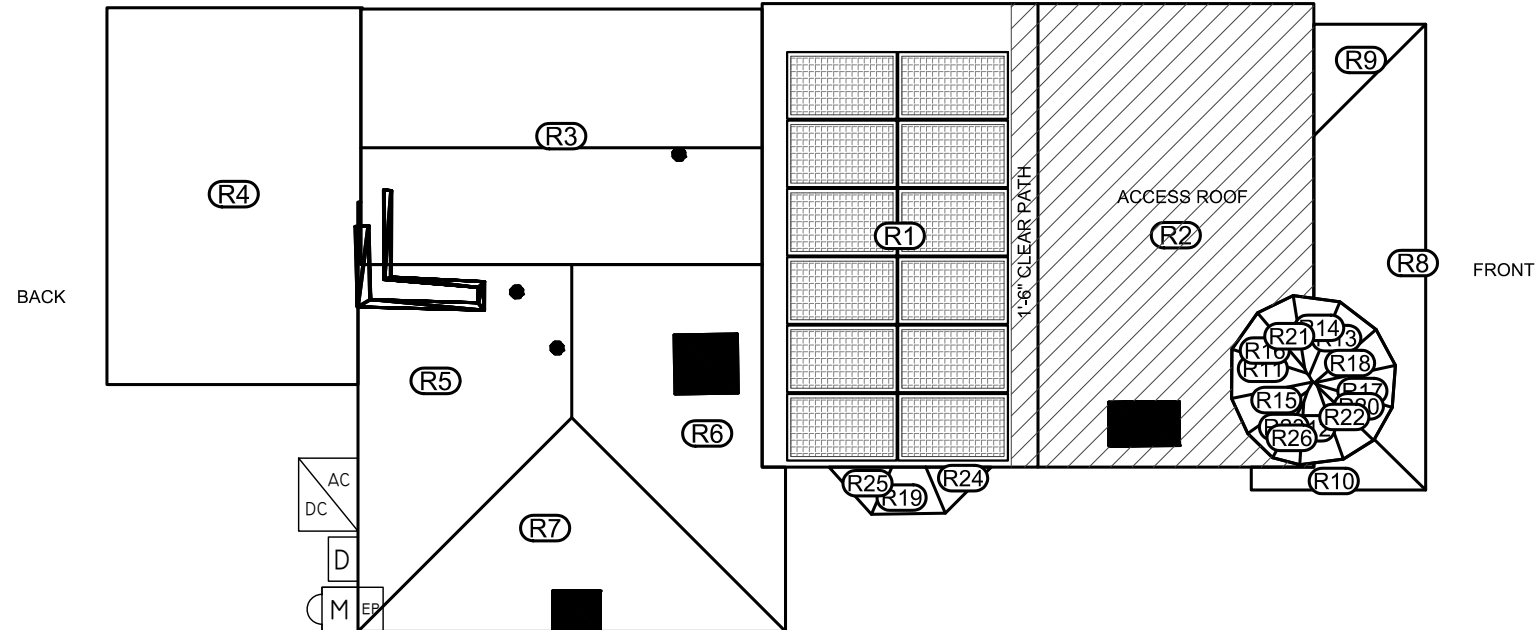
HEIGHT FROM GROUND LEVEL TO PEAK OF ROOF
 SCALE: NOT TO SCALE



Exp: 12/31/2026

ARRAY SCHEDULE

ROOF 1 MODULES: 12 PITCH: 24° ORIENTATION: 294°	ROOF 21 MODULES: 0 PITCH: 56° ORIENTATION: 358°
ROOF 2 MODULES: 0 PITCH: 24° ORIENTATION: 114°	ROOF 22 MODULES: 0 PITCH: 56° ORIENTATION: 172°
ROOF 3 MODULES: 0 PITCH: 0° ORIENTATION: 204°	ROOF 23 MODULES: 0 PITCH: 56° ORIENTATION: 248°
ROOF 4 MODULES: 0 PITCH: 0° ORIENTATION: 204°	ROOF 24 MODULES: 0 PITCH: 30° ORIENTATION: 159°
ROOF 5 MODULES: 0 PITCH: 10° ORIENTATION: 294°	ROOF 25 MODULES: 0 PITCH: 30° ORIENTATION: 252°
ROOF 6 MODULES: 0 PITCH: 10° ORIENTATION: 114°	ROOF 26 MODULES: 0 PITCH: 56° ORIENTATION: 218°
ROOF 7 MODULES: 0 PITCH: 10° ORIENTATION: 204°	ROOF 27 MODULES: 0 PITCH: 24° ORIENTATION: 294°
ROOF 8 MODULES: 0 PITCH: 14° ORIENTATION: 114°	ROOF 28 MODULES: 0 PITCH: 24° ORIENTATION: 114°
ROOF 9 MODULES: 0 PITCH: 14° ORIENTATION: 24°	
ROOF 10 MODULES: 0 PITCH: 14° ORIENTATION: 204°	
ROOF 11 MODULES: 0 PITCH: 56° ORIENTATION: 294°	
ROOF 12 MODULES: 0 PITCH: 56° ORIENTATION: 196°	
ROOF 13 MODULES: 0 PITCH: 56° ORIENTATION: 61°	
ROOF 14 MODULES: 0 PITCH: 56° ORIENTATION: 31°	
ROOF 15 MODULES: 0 PITCH: 56° ORIENTATION: 269°	
ROOF 16 MODULES: 0 PITCH: 56° ORIENTATION: 329°	
ROOF 17 MODULES: 0 PITCH: 56° ORIENTATION: 118°	
ROOF 18 MODULES: 0 PITCH: 56° ORIENTATION: 85°	
ROOF 19 MODULES: 0 PITCH: 30° ORIENTATION: 203°	
ROOF 20 MODULES: 0 PITCH: 56° ORIENTATION: 143°	



NOTES:

- 1.) ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- 2.) ARRAY BONDING TO COMPLY WITH MANUFACTURER SPECIFICATION.
- 3.) ALL LOCATIONS ARE APPROXIMATE AND REQUIRE FIELD VERIFICATION.
- 4.) AN AC DISCONNECT SHALL BE GROUPED WITH INVERTER (S) NEC 690.13 (E) .
- 5.) ALL OUTDOOR EQUIPMENT SHALL BE RAIN TIGHT WITH MINIMUM NEMA 3R RATING.
- 6.) ROOFTOP SOLAR INSTALLATION ONLY PV ARRAY SHALL NOT EXTEND BEYOND THE EXISTING ROOF EDGE.

SYMBOL LEGEND

(R1)	INDICATES ROOF DESIGNATION . REFER TO ARRAY SCHEDULE FOR MORE INFORMATION	(UD)	INDICATES NEW UNFUSED PV DISCONNECT TO BE INSTALLED OUTSIDE (UTILITY ACCESSIBLE)	(SP)	INDICATES NEW PV ONLY SUBPANEL TO BE INSTALLED
(M)	INDICATES EXISTING METER LOCATION	(■)	INDICATES NEW PV SOLAR MODULE. RED MODULES INDICATE PANELS THAT USE MICRO INVERTERS. REFER TO EQUIPMENT SCHEDULE FOR SPECS.	(DC)	INDICATES NEW DC DISCONNECT
(EP)	INDICATES EXISTING ELECTRICAL PANEL LOCATION: INSIDE	(P)	INDICATES NEW PRODUCTION METER TO BE INSTALLED OUTSIDE.	(SD)	INDICATES EXISTING SERVICE DISCONNECT
(D)	INDICATES NEW FUSED PV DISCONNECT TO BE INSTALLED OUTSIDE (UTILITY ACCESSIBLE)	(DC/AC)	INDICATES NEW INVERTER TO BE INSTALLED OUTSIDE. REFER TO EQUIPMENT SCHEDULE FOR SPECS	(TS)	INDICATES EXISTING TRANSFER SWITCH

PLUMBING SCHEDULE

OTHER OBSTRUCTIONS

EQUIPMENT SCHEDULE

QTY	SPEC #
12	HANWHA 410 (Q.PEAK DUO BLK ML-G10.C+ 410)
1	SE3800H-US (SKU USE11400H-USSKBZ8)
12	U650 SE OPTIMIZERS
6	UNIRAC 171RLM1-US NXT UMount RAIL - 171" MILL (US)
4	UNIRAC RLSPLCM2-US NXT UMount RAIL SPLICE (US)

Issued / Revisions		
NO.	DESCRIPTION	DATE
R1	REVISION	4/16/2026
P1	ISSUED TO TOWNSHIP FOR PERMIT	4/15/2026

Project Title:
 LEE, HAENG SOO-
 TRINITY ACCT #: 2026-04-1531688

Project Address:
 104 ACADEMY ST
 POUGHKEEPSIE, NY 12601
 41.6986, -73.9282

Drawing Title:
 PROPOSED PV SOLAR SYSTEM

Drawing Information	
DRAWING DATE:	4/15/2026
DRAWN BY:	BL
REVISED BY:	BL

System Information:	
DC SYSTEM SIZE:	4.92kW
AC SYSTEM SIZE:	3.8kW
MODULE COUNT:	12
MODULES USED:	HANWHA 410
MODULE SPEC #:	Q.PEAK DUO BLK ML-G10.C+ 410
UTILITY COMPANY:	CENTRAL HUDSON G&E
UTILITY ACCT #:	21005960600
UTILITY METER #:	73005006
DEAL TYPE:	LIGHTREACH

Rev. No.	Sheet
R1	PV - 2

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ARRAY CIRCUIT WIRING NOTES

1.) LICENSED ELECTRICIAN ASSUMES ALL RESPONSIBILITY FOR DETERMINING ONSITE CONDITIONS AND EXECUTING INSTALLATION IN ACCORDANCE WITH **NEC 2023**

2.) LOWEST EXPECTED AMBIENT TEMPERATURE BASED ON ASHRAE MINIMUM MEAN EXTREME DRY BULB TEMPERATURE FOR ASHRAE LOCATION MOST SIMILAR TO INSTALLATION LOCATION. LOWEST EXPECTED AMBIENT TEMP = -16°C

3.) HIGHEST CONTINUOUS AMBIENT TEMPERATURE BASED ON ASHRAE HIGHEST MONTH 2% DRY BULB TEMPERATURE FOR ASHRAE LOCATION MOST SIMILAR TO INSTALLATION LOCATION. HIGHEST CONTINUOUS TEMP = 33°C

4.) 2005 ASHRAE FUNDAMENTALS 2% DESIGN TEMPERATURES DO NOT EXCEED 47°C IN THE UNITED STATES (PALM SPRINGS, CA IS 44.1°C). FOR LESS THAN 9 CURRENT-CARRYING CONDUCTORS IN A ROOF-MOUNTED SUNLIT CONDUIT AT LEAST 0.5" ABOVE ROOF AND USING THE OUTDOOR DESIGN TEMPERATURE OF 47°C OR LESS (ALL OF UNITED STATES)

5.) PV SYSTEM CIRCUITS INSTALLED ON OR IN BUILDINGS SHALL INCLUDE A RAPID SHUTDOWN FUNCTION THAT CONTROLS SPECIFIC CONDUCTORS IN ACCORDANCE WITH **NEC 690.12(A) THROUGH (D)**

6.) PHOTOVOLTAIC POWER SYSTEMS SHALL BE PERMITTED TO OPERATE WITH UNGROUNDED PHOTOVOLTAIC SOURCE AND OUTPUT CIRCUIT PER **NEC 690.41 (A)(4)**

7.) UNGROUNDED DC CIRCUIT CONDUCTORS SHALL BE IDENTIFIED WITH THE FOLLOWING OUTER FINISH:
POSITIVE CONDUCTORS = RED
NEGATIVE CONDUCTORS = BLACK
NEC 210.5(C)(2)

8.) ARRAY AND SUB ARRAY CONDUCTORS SHALL BE #10 PV WIRE TYPE RHW-2 OR EQUIVALENT AND SHALL BE PROTECTED BY CONDUIT WHERE EXPOSED TO DIRECT SUNLIGHT. SUB ARRAY CONDUIT LONGER THAN 24" SHALL CONTAIN ≤ 20 CURRENT CARRYING CONDUCTORS AND WHERE EXPOSED TO DIRECT SUNLIGHT SHALL CONTAIN ≤ 9 CURRENT CARRYING CONDUCTORS.

9.) ALL WIRE LENGTHS SHALL BE LESS THAN 100' UNLESS OTHERWISE NOTED

10.) FLEXIBLE CONDUIT SHALL NOT BE INSTALLED ON ROOFTOP AND SHALL BE LIMITED TO 12" IF USED OUTDOORS

11.) DISCONNECTS FED BY SUPPLY-SIDE SOURCE CONDUCTORS SHALL BE BONDED AND CONNECTED TO GROUNDING SYSTEM IN ACCORDANCE WITH **NEC 250.24**

12.) OVERCURRENT PROTECTION FOR CONDUCTORS CONNECTED TO THE SUPPLY SIDE OF A SERVICE SHALL BE LOCATED WITHIN 10' OF THE POINT OF CONNECTION **NEC 690.9(A)(3)(2)**

13.) WHERE TWO SOURCES FEED A BUSBAR, ONE A UTILITY AND THE OTHER AN INVERTER, PV BACKFEED BREAKER(S) SHALL BE LOCATED OPPOSITE FROM UTILITY **NEC 705.12(B)(2)**

14.) ALL SOLAR SYSTEM LOAD CENTERS TO CONTAIN ONLY GENERATION CIRCUITS AND NO UNUSED POSITIONS OR LOADS

15.) ALL EQUIPMENT INSTALLED OUTDOORS SHALL HAVE A **NEMA 3R** RATING

CALCULATIONS FOR CURRENT CARRYING CONDUCTORS
REQUIRED CONDUCTOR AMPACITY PER STRING
[NEC 690.8(B)(1)]: (15.00*1.25)1 = 18.75A

AWG #10, DERATED AMPACITY
AMBIENT TEMP: 33°C, TEMP DERATING FACTOR: .96
RACEWAY DERATING = 2 CCC: 1.00
(40*.96)1.00 = 38.40A

38.40A ≥ 18.75A, THEREFORE WIRE SIZE IS VALID

TOTAL AC REQUIRED CONDUCTOR AMPACITY
16.00A*1.25 = 20.00A

AWG #10, DERATED AMPACITY
AMBIENT TEMP: 30°C, TEMP DERATING: 1.0
RACEWAY DERATING ≤ 3 CCC: N/A
40A*1.0 = 40A

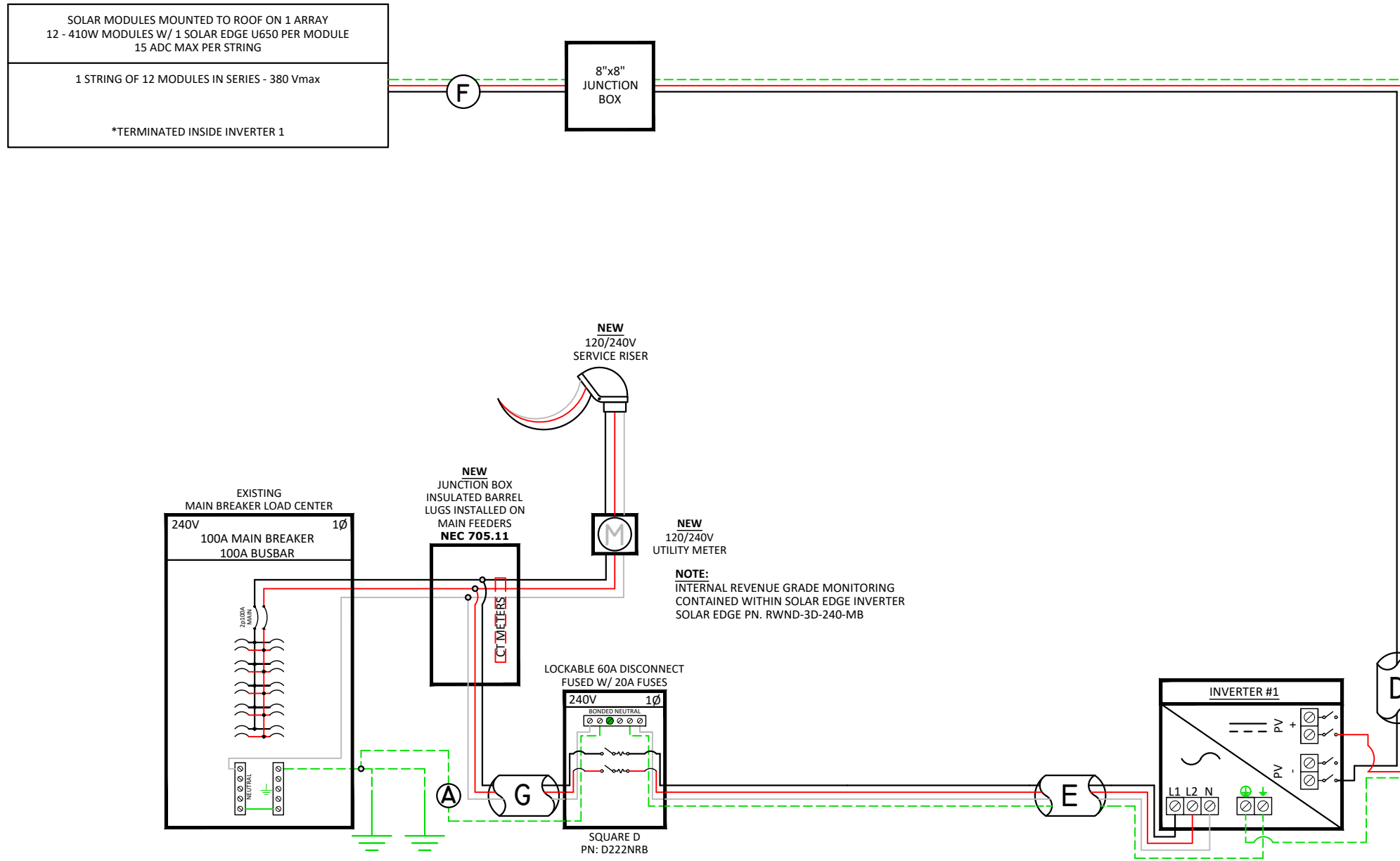
40A ≥ 20.00A, THEREFORE AC WIRE SIZE IS VALID

CALCULATION FOR PV OVERCURRENT PROTECTION

TOTAL INVERTER CURRENT: 16.00A

16.00A*1.25 = 20.00A

-> 20A OVERCURRENT PROTECTION IS VALID



PV MODULE SPECIFICATIONS	
HANWHA 410 (Q.PEAK DUO BLK ML-G10.C+ 410)	
Imp	10.89
Vmp	37.64
Voc	45.37
Isc	11.2

INVERTER #1 - SE3800H-US			
DC		AC	
Imp	12.95	Pout	3800
Vmp	380	Imax	16
Voc	480	OCPDmin	20
Isc	15	Vnom	240

NOTE: CONDUIT TYPE SHALL BE CHOSEN BY THE INSTALLATION CONTRACTOR TO MEET OR EXCEED NEC AND LOCAL AHJD REQUIREMENTS

A	#6 THWN-2 TO GEC
B	3/4" CONDUIT W/ 2-#10 THWN-2, 1-#10 THWN-2, 1-#10 THWN-2 GROUND
C	3/4" CONDUIT W/ 2-#10 THWN-2, 1-#10 THWN-2 GROUND
D	3/4" CONDUIT W/ 2-#10 THWN-2, 1-#10 THWN-2 GROUND
E	3/4" CONDUIT W/ 2-#10 THWN-2, 1-#10 THWN-2, 1-#10 THWN-2 GROUND
F	#10 PV WIRE (FREE AIR) W/ #6 BARE COPPER BOND TO ARRAY
G	3/4" CONDUIT W/ 2-#6 THWN-2, 1-#6 THWN-2

Engineer / License Holder:

Issued / Revisions		
NO.	DESCRIPTION	DATE
R1	REVISION	4/16/2026
P1	ISSUED TO TOWNSHIP FOR PERMIT	4/15/2026

Project Title:
LEE, HAENG SOO-
TRINITY ACCT #: 2026-04-1531688

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104 ACADEMY ST
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PROPOSED PV SOLAR SYSTEM

Drawing Information	
DRAWING DATE:	4/15/2026
DRAWN BY:	BL
REVISED BY:	BL

System Information:	
DC SYSTEM SIZE:	4.92kW
AC SYSTEM SIZE:	3.8kW
MODULE COUNT:	12
MODULES USED:	HANWHA 410
MODULE SPEC #:	Q.PEAK DUO BLK ML-G10.C+ 410
UTILITY COMPANY:	CENTRAL HUDSON G&E
UTILITY ACCT #:	21005960600
UTILITY METER #:	73005006
DEAL TYPE:	LIGHTREACH

Rev. No.	Sheet
R1	PV - 3

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MATERIAL LIST

(FOR INTERNAL USE ONLY)

JOB NAME: LEE, HAENG SOO-
 ADDRESS: 104 Academy St
 Poughkeepsie, NY 12601
 41.6986, -73.9282



2211 Allenwood Road 877-786-7283
 Wall, New Jersey 07719 www.Trinity-Solar.com

28 ESTIMATED PERSONNEL HOURS

1.15 DAYS

0.86 DAYS

0.57 DAYS

- 12 HANWHA 410's (4.92KW)
- 1 ARRAY
- 40' PEAK TO GROUND
- 12 PORTRAIT & 0 LANDSCAPED
- 1 INVERTER(S) INSTALLED OUTSIDE
- NO TRENCH

(CREW OF 3)

(CREW OF 4)

(CREW OF 6)

	<u>ESTIMATED</u>	<u>SENT TO JOB</u>	<u>USED</u>
<input type="checkbox"/> HANWHA 410 (Q.PEAK DUO BLK ML-G10.C+ 410)	12	—	—
<input type="checkbox"/> U650 SE OPTIMIZERS	12	—	—
<input type="checkbox"/> SE3800H-US (SKU USE11400H-USSKBEZ8)	1	—	—
<input type="checkbox"/> 60A OUTDOOR FUSED DISCONNECT W/ (2) 20A FUSES	1	—	—
<input type="checkbox"/> SOLADECK BOX(ES) & HAYCO CONNECTOR(S)	1	—	—
<input type="checkbox"/> PV LEAD WIRE	50'	—	—
<input type="checkbox"/> INSULATED BUG BITES (TAPS)	2	—	—
<input type="checkbox"/> SOLAREEDGE CONSUMPTION CTs (SECT-SPL-225-T-20)	2	—	—
<input type="checkbox"/> UNIRAC 171RLM1-US NXT UMOUNT RAIL - 171" MILL (US)	6	—	—
<input type="checkbox"/> UNIRAC RLSPLCM2-US NXT UMOUNT RAIL SPLICE (US)	4	—	—
<input type="checkbox"/> UNIRAC CCLAMPD1 NXT UMOUNT COMBO CLAMP - DARK	28	—	—
<input type="checkbox"/> GROUNDING LUG(S)	1	—	—
<input type="checkbox"/> UNIRAC SHBUTYLD2 STRONGHOLD BUTYL ATT KIT #14S DARK	26	—	—
<input type="checkbox"/> UNIRAC MLPEMNT MLPE MOUNT	12	—	—
<input type="checkbox"/> UNIRAC ENDCAPD1 NXT UMOUNT RL & CLMP CAP KIT	8	—	—

INSTALLATION OF NEW
ROOF MOUNTED PV SOLAR SYSTEM

LEE, HAENG SOO-
104 ACADEMY ST
POUGHKEEPSIE, NY 12601
41.6986, -73.9282

APPENDIX

CONTENTS
LABELS, STICKERS, AND PLACARDS
EQUIPMENT DATA SHEETS

NOTES:

- 1.) COMPLIES WITH NEC 2023
- 2.) REFER TO SHEET PV-3 FOR SITE SPECIFIC VALUES REQUIRED BY NEC 690
- 3.) STICKERS, LABELS, AND PLACKARDS SHALL BE OF SUFFICIENT DURRABILITY TO WITHSTAND THE ENVIROMENT INVOLVED

To be located on all DC junction boxes and every 10' on DC conduit

WARNING: PHOTOVOLTAIC POWER SOURCE
NEC 690.31(D)(2)



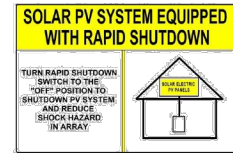
DC Junction Box



Soladeck



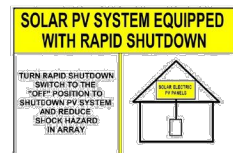
DC Conduit



NEC 690.13



Service Disconnect



NEC 690.13



Main Service Panel



Utility



Utility Meter Socket



NEC 690.13(B)



Solar Meter Socket



690.56(D)(2)



NEC 690.13(B)



NEC 690.4(B)



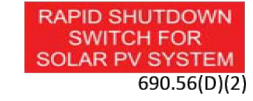
Photovoltaic AC Disconnect



NEC 690.4(B)



Load Center (To Combine Inverters)



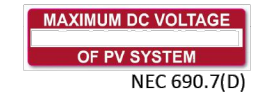
690.56(D)(2)



NEC 690.13(B)



NEC 690.4(B)



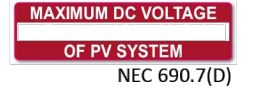
NEC 690.7(D)



Inverter(s)



NEC 690.4(B)



NEC 690.7(D)



DC Disconnect



NEC 690.13(B)



Enphase Envoy Box

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Q.PEAK DUO BLK ML-G10+ SERIES



395 - 415 Wp | 132 Cells
21.1% Maximum Module Efficiency
Domestic Content Option Available

MODEL *Q.PEAK DUO BLK ML-G10+
 Q.PEAK DUO BLK ML-G10.C+



Includes Domestic Content

This product contains U.S. manufactured components which can contribute to qualifying for the 10% domestic content bonus to applicable tax credits under the Inflation Reduction Act of 2022.¹



Breaking the 21% efficiency barrier

Q.ANTUM DUO Z Technology with zero gap cell layout boosts module efficiency up to 21.1%.



A reliable investment

Inclusive 25-year product warranty and 25-year linear performance warranty.²



Enduring high performance

Long-term yield security with Anti LeTID Technology, Anti PID Technology³ and Hot-Spot Protect.



Extreme weather rating

High-tech aluminum alloy frame, certified for high snow (5400 Pa) and wind loads (4000 Pa).



Far beyond the standard

Qcells' comprehensive quality program ensures high long-term yields and the reliability of your solar system.

¹ This statement should not be relied on as tax advice and is subject to change based on changes made to the Inflation Reduction Act and its implementing rules and regulations. Please consult a qualified tax professional for specific guidance.

² See data sheet on rear for further information.

³ APT test conditions according to IEC/TS 62804-1:2015, method A (-1500V, 96 h)

The ideal solution for:



*DCA Module Option:

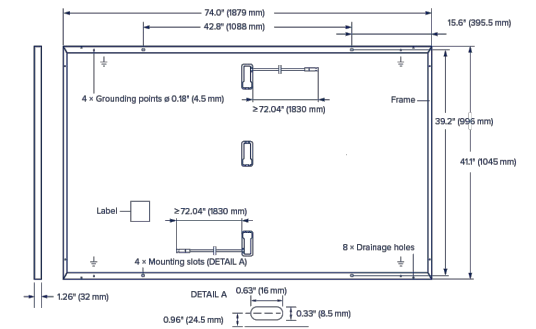
DCA 17 module has material code 'MD06G100A-017' printed on the module power label.



Q.PEAK DUO BLK ML-G10+ SERIES

Mechanical Specification

Format	74.0 in × 41.1 in × 1.26 in (including frame) (1879 mm × 1045 mm × 32 mm)
Weight	48.5 lbs (22.0 kg)
Front Cover	0.13 in (3.2 mm) thermally pre-stressed glass with anti-reflection technology
Back Cover	Composite film
Frame	Black anodized aluminum
Cell	6 × 22 monocrystalline Q.ANTUM solar half cells
Junction box	2.09-3.98 in × 1.26-2.36 in × 0.59-0.71 in (53-101 mm × 32-60 mm × 15-18 mm), IP67, with bypass diodes
Cable	4 mm ² Solar cable; (+) ≥ 72.04 in (1830 mm), (-) ≥ 72.04 in (1830 mm)
Connector	Stäubli MC4; IP68

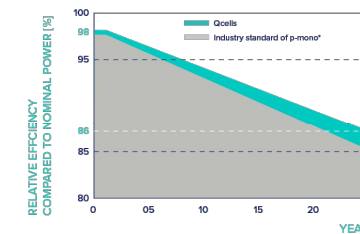


Electrical Characteristics

POWER CLASS		395	400	405	410	415	
MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC ¹ (POWER TOLERANCE +5 W/-0 W)							
Minimum	Power at MPP ¹	P _{MPP} [W]	395	400	405	410	415
	Short Circuit Current ¹	I _{SC} [A]	11.10	11.14	11.17	11.20	11.23
	Open Circuit Voltage ¹	V _{OC} [V]	45.27	45.30	45.34	45.37	45.41
	Current at MPP	I _{MPP} [A]	10.71	10.77	10.83	10.89	10.95
	Voltage at MPP	V _{MPP} [V]	36.88	37.13	37.39	37.64	37.89
	Efficiency ¹	η [%]	≥20.1	≥20.4	≥20.6	≥20.9	≥21.1
MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NMOT ²							
Minimum	Power at MPP	P _{MPP} [W]	296.3	300.1	303.8	307.6	311.3
	Short Circuit Current	I _{SC} [A]	8.95	8.97	9.00	9.03	9.05
	Open Circuit Voltage	V _{OC} [V]	42.69	42.72	42.76	42.79	42.83
	Current at MPP	I _{MPP} [A]	8.46	8.51	8.57	8.62	8.68
	Voltage at MPP	V _{MPP} [V]	35.03	35.25	35.46	35.68	35.89

¹Measurement tolerances P_{MPP} ±3%; I_{SC}; V_{OC} ±5% at STC: 1000 W/m², 25 ± 2 °C, AM 1.5 according to IEC 60904-3 - ²800 W/m², NMOT, spectrum AM 1.5

Qcells PERFORMANCE WARRANTY

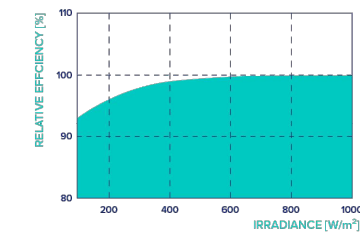


At least 98% of nominal power during first year. Thereafter max. 0.5% degradation per year. At least 93.5% of nominal power up to 10 years. At least 86% of nominal power up to 25 years.

All data within measurement tolerances. Full warranties in accordance with the warranty terms of the Qcells sales organization of your respective country.

¹Standard terms of guarantee for the 5 PV companies with the highest production capacity in 2021 (February 2021)

PERFORMANCE AT LOW IRRADIANCE



Typical module performance under low irradiance conditions in comparison to STC conditions (25 °C, 1000 W/m²).

TEMPERATURE COEFFICIENTS

Temperature Coefficient of I _{SC}	α	[%/K]	+0.04	Temperature Coefficient of V _{OC}	β	[%/K]	-0.27
Temperature Coefficient of P _{MPP}	γ	[%/K]	-0.34	Nominal Module Operating Temperature	NMOT	[°F]	109 ± 5.4 (43 ± 3 °C)

Properties for System Design

Maximum System Voltage	V _{sys} [V]	1000 (IEC)/1000 (UL)	PV module classification	Class II
Maximum Series Fuse Rating	[A DC]	20	Fire Rating based on ANSI/UL 61730	TYPE 2
Max. Design Load, Push/Pull ³	[lbs/ft ²]	75 (3600 Pa)/55 (2660 Pa)	Permitted Module Temperature on Continuous Duty	-40 °F up to +185 °F (-40 °C up to +85 °C)
Max. Test Load, Push/Pull ³	[lbs/ft ²]	113 (5400 Pa)/84 (4000 Pa)		

³ See Installation Manual

Qualifications and Certificates

UL61730-1 & UL61730-2, CE-compliant, IEC 61215:2016, IEC 61730:2016, U.S. Patent No. 9,893,215 (solar cells),



*Contact your Qcells Sales Representative for details regarding the module's eligibility to be Buy American Act (BAA) compliant.

Qcells pursues minimizing paper output in consideration of the global environment.

Note: Installation instructions must be followed. Contact our technical service for further information on approved installation of this product.
 Hanwha Q CELLS America Inc. 300 Spectrum Center Drive, Suite 500, Irvine, CA 92618, USA | TEL +1 (949) 748 5996 | EMAIL na.support@qcells.com | WEB www.qcells.com



/ SolarEdge Home Hub Inverter

USA Domestic Content Eligible

Single Phase, for North America

SE3800H-US / SE5700H-US / SE7600H-US / SE9600H-US / SE10000H-US / SE11400H-US

Applicable to inverters with part number	USE11400H-USSKBEZ8						
Model Number ⁽¹⁾	SE3800H-US	SE5700H-US	SE7600H-US	SE9600H-US	SE10000H-US	SE11400H-US	
OUTPUT – AC ON GRID							
Maximum AC Power Output	3800 @ 240V 3300 @ 208V	5760 @ 240V 5000 @ 208V	7600 @ 240V 6600 @ 208V	9600 @ 240V 8300 @ 208V	10,000 @ 240V 8700 @ 208V	11,400 @ 240V 10,000 @ 208V	W
AC Output Voltage (Nominal)	208 / 240						Vac
AC Output Voltage (Range)	183 – 264						Vac
AC Frequency Range (min - nom - max)	59.3 – 60 – 60.5 ⁽²⁾						Hz
Maximum Continuous Output Current	16	24	32	40	42	47.8	A
Maximum Fault Current / Duration	74 / 50						Aac / μs
GFDI Threshold	1						A
Total Harmonic Distortion (THD)	< 3						%
Power Factor	1, adjustable -0.85 to 0.85						
Utility Monitoring, Islanding Protection, Country Configurable Thresholds	Yes						
Charge Battery from AC (if allowed)	Yes						
Typical Nighttime Power Consumption	< 2.5						W
OUTPUT – AC STANDALONE (BACKUP)⁽³⁾							
Rated AC Power in Standalone Operation ⁽⁴⁾	12,500 ⁽⁵⁾⁽⁶⁾						W
Maximum Continuous Output Current in Standalone Operation	52						A
Locked Rotor Amperage (LRA) ⁽⁷⁾	Up to 106						A
AC L-L Output Voltage Range in Standalone Operation	211 – 264						Vac
AC L-N Output Voltage Range in Standalone Operation	105 – 132						Vac
AC Frequency Range in Standalone Operation (min - nom - max)	55 – 60 – 65						Hz
GFDI	1						A
THD	< 5						%
INPUT – DC (PV AND BATTERY)							
Transformer-less, Ungrounded	Yes						
Maximum Input Voltage	480						Vdc
Nominal DC Input Voltage	380						Vdc
Reverse-Polarity Protection	Yes						
Ground-Fault Isolation Detection	600kΩ Sensitivity						
Maximum Input Short Circuit Current	45						Adc
Maximum Inverter Efficiency	99.2						%
CEC Weighted Efficiency	98.5		99		99 @ 240V 98.5 @ 208V		%
2-Pole Disconnection	Yes						
DC CONNECTION – PV							
Maximum Input Power	7600 @ 240V 6600 @ 208V	11,520 @ 240V 10,000 @ 208V	15,200 @ 240V 13,200 @ 208V	19,200 @ 240V 16,600 @ 208V	20,000 @ 240V 17,400 @ 208V	22,800 @ 240V 20,000 @ 208V	W
Maximum Input Current	20 @ 240V 17 @ 208V	30 @ 240V 26 @ 208V	40 @ 240V 35 @ 208V	51 @ 240V 44 @ 208V	53 @ 240V 46 @ 208V	60 @ 240V 53 @ 208V	Adc
Number of Ports	3						
Maximum Current per Port	40						Adc

(1) These specifications apply to inverters with part number USE11400H-USSKBEZ8 and connection unit model number DCD-IPH-US-PxH-F-x.
 (2) For other regional settings please refer to the [SolarEdge Inverters, Power Control Options](#) application note.
 (3) Not designed for non-grid connected applications and requires AC for commissioning. Standalone (backup) functionality is only supported for the 240V grid.
 (4) For models SE7600H-US and below, the Rated AC Power in Standalone Operation is configurable between 7,600W with a Maximum Continuous Output Current of 32A or 12,500W with a Maximum Continuous Output Current of 52A, from firmware version 4.23.xx.
 (5) Operational only at ambient temperatures up to 86°F / 30°C. Above 86°F / 30°C, the Maximum Rated AC Power in Standalone Operation is 11,400W.
 (6) Available only for single inverter installations. In multi-inverter installations, the Maximum Rated AC Power in Standalone Operation is 11,400W.
 (7) For more information about LRA (Locked Rotor Amperage) values, see the [SolarEdge Home Hub Inverter LRA](#) application note.

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/ SolarEdge Home Hub Inverter

USA Domestic Content Eligible

Single Phase, for North America

SE3800H-US / SE5700H-US / SE7600H-US / SE9600H-US / SE10000H-US / SE11400H-US

Applicable to inverters with part number	USE11400H-USSKBEZ8						
Model Number ⁽¹⁾	SE3800H-US	SE5700H-US	SE7600H-US	SE9600H-US	SE10000H-US	SE11400H-US	
DC CONNECTION – BATTERY							
Supported Battery Types	SolarEdge Home Battery 400V						
Number of Batteries per Inverter	Up to 3						
Maximum Continuous Power (Charge and Discharge) ⁽⁸⁾	12,500						W
Number of Ports	2						
Maximum Current per Port	40						Adc
2-pole Disconnection	Up to the inverter's rated standalone power						
SMART ENERGY CAPABILITIES							
Consumption Metering	Built-in ⁽⁹⁾						
Standalone & Battery Storage	With Backup Interface (purchased separately) for service up to 200A; up to 3 inverters						
EV Charging	Direct connection to the SolarEdge Home EV Charger ⁽¹⁰⁾						
ADDITIONAL FEATURES							
Supported Communication Interfaces	RS485, Ethernet, Cellular ⁽¹¹⁾ (optional), Wi-Fi ⁽¹²⁾ , SolarEdge Home Network ⁽¹³⁾ (optional)						
Revenue Grade Metering, ANSI C12.20	Built-in ⁽⁹⁾						
Integrated AC, DC, and Communication Connection Unit	Yes						
Inverter Commissioning	With the SetApp mobile application using built-in Wi-Fi Access Point for local connection						
DC Voltage Rapid Shutdown (PV and Battery)	Yes, NEC 690.12						
STANDARD COMPLIANCE							
Safety	UL 1741, UL 1741SA, UL 1741SB, UL 1699B, CSA 22.2#107.1, C22.2#330, C22.3#9, ANSI/CAN/UL 9540						
Grid Connection Standards	IEEE1547-2018 and IEEE-1547.1 Rule 21, Rule 14H						
Emissions	FCC Part 15 Class B						
Power Control System (PCS)	UL 1741 PCS ⁽¹⁴⁾						
INSTALLATION SPECIFICATIONS							
AC Terminals	L1, L2, N terminal blocks, PE busbar for inverter connection L1, L2 terminal blocks, PE busbar for EV Charger AC connection						
DC Terminals	3 x terminal block pairs for PV input, 2 x terminal block pair for battery input						
AC Output and EV AC Output Conduit Size / AWG Range	1" maximum / 14 – 4 AWG						
DC Input (PV and Battery) Conduit Size / AWG Range	1" maximum / 14 – 6 AWG						
Dimensions with Connection Unit (H x W x D)	21.06 x 14.6 x 8.2 / 535 x 370 x 208						in / mm
Weight with Connection Unit	44.9 / 20.3						lb / kg
Noise	< 50						dBA
Cooling	Natural Convection						
Operating Temperature Range	-40 to +140 / -40 to +60 ⁽¹⁵⁾						°F / °C
Protection Rating	NEMA 4X						

(8) Discharge power is limited up to the inverter's rated AC power for on-grid applications, and up to 12.5 kW for standalone applications, as well as up to the installed batteries' rating.
 (9) For consumption metering current transformers should be ordered separately: SECT-SPL-225A-T-20 or SEACT1250-400NA-20. Revenue grade metering is only for production metering.
 (10) For more information about the SolarEdge Home EV Charger, refer to the [SolarEdge Home EV Charger](#) datasheet.
 (11) Purchased separately. Information concerning the data plan terms & conditions is available in [SolarEdge Communication Plan Terms and Conditions](#).
 (12) External Wi-Fi antenna for wider range provided with the inverter's package. Refer to the [Antenna for Wi-Fi and ZigBee Wireless Communications](#) datasheet.
 (13) SolarEdge Home Network Plugin ENET-HBNP-01 purchased separately. For more information, refer to the [SolarEdge Home Network Plugin](#) datasheet.
 (14) Only part numbers USExxxxH-USMNo7x/USE11400H-USSKBEZ8 support the PCS meter.
 (15) Full power up to at least 122°F / 50°C. For power derating information refer to the [Temperature Derating for North America](#) technical note.

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Power Optimizer

USA Domestic Content Eligible*

For North America
U650 / U650B



POWER OPTIMIZER



SolarEdge's USA-manufactured offering for PV power optimization at the module level

- Eligible for domestic content: SolarEdge USA-manufactured Power Optimizers*, when paired with certain SolarEdge inverters, are intended to be eligible for the enhanced federal income tax credit for domestic content
- Specifically designed to work with SolarEdge inverters
- Supports high open circuit voltage (Voc) modules with U650B
- U650B provides improved design flexibility of multifaceted, complex roofs, with extended output voltage that reduces yield factor losses
- Superior efficiency (99.5%)
- Mitigates diverse types of module mismatch loss, from manufacturing tolerance to partial shading
- Flexible system design for maximum space utilization
- Faster installations with simplified wire management and easy assembly using a single bolt
- Compatible with a wide range of modules, including high-powered and bifacial PV modules
- Advanced safety:
 - Patented Sense Connect technology, designed to automatically detect and prevent potential electric arcs at the connector level before an arc is created
 - Patented SafeDC™ – module-level voltage shutdown, for installer and firefighter safety
 - Meets NEC requirements for arc fault protection (AFCI) and Photovoltaic Rapid Shutdown System (PVRSS)

* Manufactured by SolarEdge with the intent to be eligible for inclusion under the elective safe harbor in calculating the Domestic Content Percentage under the "Rooftop (MLPE)" category (under IRS Notice 2024-41). The PCBA, Electrical Parts, and Enclosure are domestically manufactured to meet the requirements of eligibility to be considered for the ITC domestic content bonus adder. SolarEdge does not provide tax and/or legal advice. You should consult with your own legal and/or tax advisor(s) regarding the eligibility of your project for the ITC or PTC, including the 10% domestic content bonus, to determine how the applicable rules apply to your particular project. The forward-looking statements in this datasheet are accurate as of the date herein and are subject to change. For more information, please contact your local SolarEdge sales representative

Power Optimizer

USA Domestic Content Eligible, for North America

U650 / U650B

	U650	U650B	Units
INPUT			
Rated Input DC Power ⁽¹⁾	650		W
Absolute Maximum Input Voltage (Voc)	60	100	Vdc
MPPT Operating Range	8 – 60	12.5 – 100	Vdc
Maximum Input Current (Maximum Isc of Connected PV Module)	15		Adc
Maximum Input Short Circuit Current ⁽²⁾	18.75		Adc
Maximum Efficiency	99.5		%
Weighted Efficiency	98.6		%
Oversoltage Category	II		
OUTPUT DURING OPERATION (POWER OPTIMIZER CONNECTED TO OPERATING SOLAREEDGE INVERTER)			
Maximum Output Current	15		Adc
Maximum Output Voltage	60	80	Vdc
OUTPUT DURING STANDBY (POWER OPTIMIZER DISCONNECTED FROM SOLAREEDGE INVERTER OR INVERTER OFF)			
Safety Output Voltage per Power Optimizer	1 ± 0.1		Vdc
STANDARD COMPLIANCE			
Photovoltaic Rapid Shutdown System	CSA C22.2#330, NEC 2014 – 2023		
EMC	FCC Part 15 Class B, IEC 61000-6-2, IEC 61000-6-3		
Safety	CSA C22.2#107.1, IEC 62109-1 (Class II safety), UL 1741		
Material	UL 94 V-0, UV Resistant		
RoHS	Yes		
Fire Safety	VDE-AR-E 2100-712:2013-05		
INSTALLATION SPECIFICATIONS			
Maximum Allowed System Voltage	1000		Vdc
Dimensions (W x L x H)	129 x 155 x 30 / 5.07 x 6.10 x 1.18	129 x 165 x 45 / 5.07 x 6.49 x 1.77	mm / in
Weight	720 / 1.6	790 / 1.74	gr / lb
Input Connector	MC4		
Input Wire Length	0.1 / 0.32		m / ft
Output Connector	MC4		
Output Wire Length	(+) 2.3, (-) 0.10 / (+) 7.54, (-) 0.32		m / ft
Operating Temperature Range ⁽³⁾	-40 to +85		°C
Protection Rating	IP68 / NEMA6P		
Relative Humidity	0 – 100		%

(1) The Rated Power of the module at STC will not exceed the power optimizer's Rated Input DC Power. Modules with up to +5% power tolerance are allowed.
 (2) The Maximum Input Short Circuit Current is adjusted for worst case conditions of ambient temperature, irradiance, bifacial gain, and so on, in accordance with NEC and CSA.
 (3) Power derating is applied for ambient temperatures above +85°C / +185°F for U650 and for ambient temperatures above +75°C / 167°F for U650B. Refer to the [Power Optimizers Temperature Derating](#) technical note for details.

PV System Design Using a SolarEdge Inverter ⁽⁴⁾	SolarEdge Home Wave / Hub Single Phase	Three Phase for 208V Grid	Three Phase for 277/480V Grid	Units
Minimum String Length	U650: 8 U650B: 6	10	18	
Maximum String Length (Power Optimizers)	25		14	
Maximum Usable Power Delivered per String	5700		6000	12,750
Maximum Allowed Connected Power per String ⁽⁶⁾⁽⁷⁾	Per the inverter's maximum input DC power ⁽⁸⁾		One string: 7200 Two strings or more: 7800	15,000
	Inverters with Rated AC Power ≤ 5700W	5700		
	Inverters with Rated AC Power of 6000W	6800, only when connected to at least two strings		
Parallel Strings of Different Lengths or Orientations	Yes			

(4) It is not allowed to mix U650 or U650B Power Optimizers with P-series Power Optimizers in new installations in the same string.
 (5) A string with more than 30 optimizers does not meet NEC rapid shutdown requirements; safety voltage will be above the 30V requirement.
 (6) For the 208V grid, the maximum is permitted only when the difference in connected power between strings is 1,000W or less.
 (7) For the 240V or 277/480V grids, the maximum is permitted only when the difference in connected power between strings is 2,000W or less.
 (8) Refer to the [Single String Design Guidelines](#) application note for more details.

INSULATION-PIERCING TAP CONNECTORS CONECTORES DE DERIVACIÓN QUE PERFORAN EL AISLAMIENTO

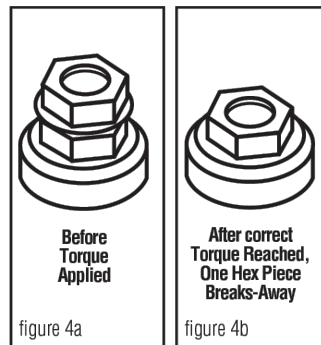
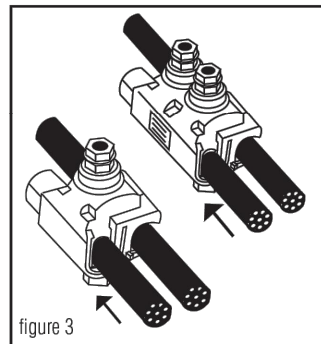
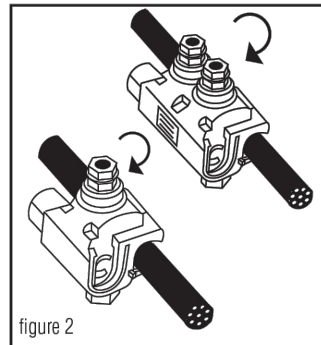
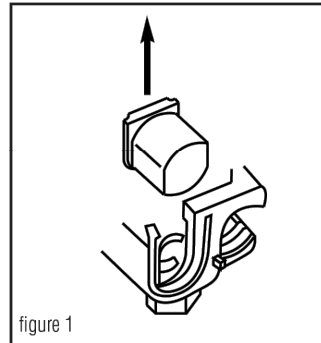
Installation Instructions:

Warning

Improperly installed electrical wiring can be dangerous and cause electrical fires. The connector chosen must be sized to the wires being used. Consult local building code before doing any electrical work. For assistance, refer to an instructional book or consult a qualified electrician.

Warning

Contact with electricity can cause serious injury or death. Use on insulated cable only. [RHH, RHW(-2), THHN, THHW, THW, THWN, USE, XHHW(-2)]. Consult factory for other insulation types]. If the installation is to be made on an energized run, the tap conductor must be under no load and must not be grounded. Use electrically insulated gloves. De-energize the run cable if there are any questions of these conditions being met.



- Determine the direction for the tap conductor to exit and discard one end cap. **See figure 1.**
- Position the main (or feeder) side of the connector around the run cable and tighten the bolt finger tight. **See figure 2.** If required, loosen the bolt slightly to allow the connector to open completely. **DISASSEMBLY NOT RECOMMENDED.** The plastic "Turbo" spacer holds the connector open which eases installation and ensures proper connections.
- Cut the end of the tap cable squarely. **DO NOT STRIP CABLE INSULATION.**
- Insert the tap cable into the tap side of the connector until it is seated in the remaining end cap. **See figure 3.**
- Continue tightening the torque regulating bolt with a standard box or socket wrench until the torque regulating piece breaks away. If the connector has two (2) assembly bolts, alternately tighten until the hexagonal torque devices break away. **See figures 4a & 4b.** Note that the plastic "turbo" spacer on the side will also break. To make the installation even easier and to relieve torque from the cables, a second wrench can be used on the hexagonal piece on the bottom of the connector.

DO NOT use gripping type pliers, pipe, open ended or adjustable wrenches as these may damage the hexagonal torque regulating device. A torque wrench is not required.

MAKE SURE ONLY THE TOP HEXAGONAL TORQUE DEVICE OF THE BOLT HEAD IS USED FOR ASSEMBLY. THE SECOND HEX PIECE [CLOSER TO THE BODY OF THE CONNECTOR] IS USED FOR DISASSEMBLY.

Note: The torque regulating bolt ensures the correct torque is applied to the conductors without using a torque wrench. Important information such as run and tap ranges, voltage ratings and material/temperature ratings is marked on the connector.

Instalación Instrucciones:

Advertencia

Los cables eléctricos mal instalados pueden ser peligrosos y provocar incendios. El conector escogido debe ser de un tamaño adecuado para los cables que se utilicen. Consulte los códigos de construcción locales antes de efectuar trabajos eléctricos. Si necesita ayuda, consulte un libro de instrucciones o consulte con un electricista capacitado.

Advertencia

Use sólo en cable aislado. [RHH, RHW(-2), THHN, THHW, THW, THWN, USE, XHHW(-2)]. Consulte con la fábrica para obtener información sobre otros tipos de aislamiento). Si se va a hacer la instalación sobre un cable con corriente el conductor derivado debe estar libre de carga y no debe estar aterado. Use guantes con aislamiento eléctrico. Quite la corriente al cable del cual se hace la derivación si no se pueden cumplir estas condiciones. El contacto con electricidad puede producir lesiones graves o mortales.

- Determine la dirección en la que el conductor derivado saldrá y deseche la tapa terminal sobrante. **Vea la ilustración 1.**
 - Coloque el lado principal (o de alimentación) del conector alrededor del cual se hace la derivación y apriete firmemente el dedo del perno. **Vea la ilustración 2.** Si hace falta, afloje el perno ligeramente para permitir que el conector se abra completamente. **NO ES RECOMENDABLE DESARMAR EL CONECTOR.** El espaciador "Turbo" de plástico mantiene al conector abierto, lo cual facilita la instalación y asegura que las conexiones se hagan correctamente.
 - Corte el extremo del cable de derivación perpendicularmente a su eje. **NO PELE EL AISLAMIENTO DEL CABLE.**
 - Inserte el cable de derivación en el lado de derivación del conector hasta que tope contra la tapa terminal que queda. **Vea la ilustración 3.**
 - Continúe apretando este perno que regula la torsión con una llave estándar o de cubo hasta que la pieza que regula la torsión se parta y se separe. Si el conector tiene dos (2) pernos de ensamble, apriételes alternativamente hasta que el dispositivo de regulación de torció se parta. **Vea la ilustración 4a y 4b.** Observe que el espaciador "turbo" de plástico en el costado también se fracturará. Para hacer esta instalación aún más fácil y para aliviar la torsión de los cables, se puede usar una segunda llave sobre la pieza hexagonal al fondo del conector.
- NO USE alicates de presión, llaves de turbo, llaves comunes o ajustables** ya que éstas pueden dañar el dispositivo hexagonal que regula la torsión. No se requiere una llave de torsión.
- ASEGÚRESE QUE SE USE, PARA EL ENSAMBLADO, SÓLO EL DISPOSITIVO SUPERIOR DE REGULACIÓN DE TORSIÓN DE LA CABEZA DEL PERNO. LA SEGUNDA PIEZA HEXAGONAL (LA MÁS CERCANA AL CUERPO DEL CONECTOR) SE USA SÓLO PARA DESARMAR EL CONECTOR.**

Nota: El perno regulador de torsión garantiza la aplicación de la torsión correcta a los conductores sin usar una llave de torsión. La información importante de longitud de cable pelado y de toma, las clasificaciones de materiales y temperatura está marcada en el conector.

B-TAP[®] INSULATION PIERCING TAP CONNECTORS TORQUE AND CURRENT RATINGS

(Solid and/or Stranded)

CATALOG#	MAIN	TAP	NOMINAL TORQUE	TAP CURRENT RATING (IN AMPS)*
BTC2/0-14	2/0-4	10-14*	80 IN. LBS.	40
BTC1/0-10	1/0-8	2-10**	80 IN. LBS.	130
BTC4/0-10	4/0-3	2-10***	125 IN. LBS.	130
BTC4/0-6	4/0-2	1/0-6	160 IN. LBS.	170
BTC4/0-2	4/0-2	4/0-2	160 IN. LBS.	260
BTC250-6	250-4	4/0-6	160 IN. LBS.	260
BTC250-4	250-1	3/0-4	160 IN. LBS.	225
BTC250-2	250-1/0	4/0-2	160 IN. LBS.	260
BTC350-1/0	350-1/0	350-1/0	330 IN. LBS.	350
BTC500-4	500-2/0	4/0-4	330 IN. LBS.	260
BTC500-1/0	500-4/0	350-1/0	330 IN. LBS.	350
BTC500-14	750-3/0	10-14 ***	80 IN. LBS.	40
BTC750-250	750-250	500-250	330 IN. LBS.	430

+10-14 Cu SOLID/STRANDED; 10-12 Al SOLID/STRANDED
 ++2-10 Cu SOLID/STRANDED; 2-10 Al STRANDED
 +++2-10 Cu SOLID/STRANDED; 2-8 Al STRANDED
 ++++10-14 Cu SOLID/STRANDED; 10-12 Al STRANDED

Full line is 600V dual-rated, 194°F(90°C)

* Based on NEC Table 310-16 1996 (Not more than 3 insulated conductors in a raceway at ambient temperature of 30° C) for the largest tap wire size.

WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

ADVERTENCIA: Cáncer y Daño Reproductivo - www.P65Warnings.ca.gov

One year limited warranty. See idealind.com for more information.

Garantía limitada de un año. Visite www.idealind.com para obtener detalles de la garantía.

DESIGN & INTEGRATION

- Seamless, integrated wire management system elevates the install via the new open channel rail.
- State-of-the-art internal splice is interference free and offers true structural integrity that can even be installed in a cantilever!

VERSATILITY & AESTHETICS

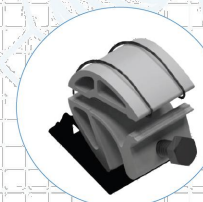
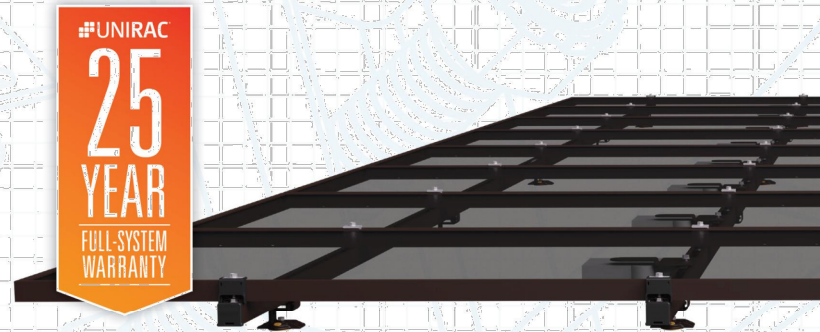
- Unparalleled versatility supporting a vast array of roof attachments. Whether it's flashing or no flashing, the NXT UMOUNT™ system has got you covered!
- Refined finishing touches are visually sleek and functionally superior.

EFFICIENCY & EASE OF INSTALLATION

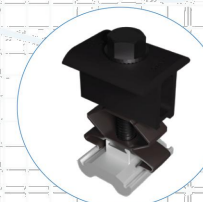
- Universal module clamps and combo lug / MLPE mounts result in fewer SKUs and maximum component value.
- Open-slot STRONGHOLD attachments deliver quick, reliable, waterproof installations via Flashloc or pre-applied butyl sealants.
- With our click-in rail & clamps, you'll spend significantly less time on the roof, making installations quicker and hassle-free.

WHY NXT UMOUNT ?

Introducing NXT UMOUNT™, a revolutionary product by Unirac that stands as the ultimate testament to over two decades of engineering experience. Its thoughtful design, backed by rigorous engineering, world-class support, and a reliable supply chain, encapsulates the best of DESIGN, SIMPLICITY, and VALUE. This innovative solar racking solution brings unparalleled versatility to solar installations, effectively representing the NXT level of solar mounting systems.



NXT UMOUNT™
HIDDEN END CLAMP



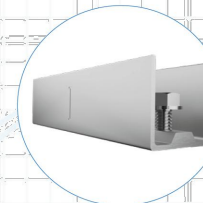
NXT UMOUNT™
COMBO CLAMP
Available in Dark
and Mill



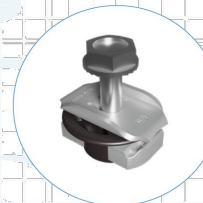
STRONGHOLD™
RAIL CLAMP
Available in Dark
and Mill



NXT UMOUNT™ RAIL
Available in
Dark and Mill



NXT UMOUNT™ RAIL SPLICE



NXT UMOUNT™
MLPE & LUG CLAMP



STRONGHOLD™
ATTACHMENT KIT
Available in Dark
and Mill



STRONGHOLD™ BUTYL
ATTACHMENT KIT
Available in Dark
and Mill



NXT UMOUNT™
METAL ROOF RAIL CLAMP

SIMPLIFIED FLASHLESS SOLUTION

- One-step Butyl application
- Minimize labor with one step installation using the pre-applied, peel and install, butyl design
- Reliable waterproofing without messy sealant
- Eliminate risk of roof damage. No more disturbing shingles

OPTIMIZED FOR NXT UMOUNT, UNIRAC'S OPEN CHANNEL RAIL SYSTEM

- Open slot design for ease of rail connectivity with included STRONGHOLD™ NXT UMOUNT™ rail clamp
- STRONGHOLD™ Butyl combined with the NXT UMOUNT™ system make installation and wire management a breeze
- UL Certified with NXT UMOUNT™

DUAL MOUNTING OPTIONS

- Pre-attached butyl pad: Simply peel, stick, and fasten with the two (2) included screws for rafter mount
- For direct-to-deck applications, simply install additional decking screws

ADDITIONAL BENEFITS

- Competitively priced with standard rafter attachments

WHY STRONGHOLD™ BUTYL?

Unirac's STRONGHOLD™ Butyl is efficient, dependable, and optimized for UNIRAC's NXT UMOUNT™ system. The pre-applied butyl pad removes the need for additional flashing. Just peel the liner, place the attachment, and fasten it to the roof. In addition, the butyl, used throughout the roofing and solar industries for its reliability, conforms to the screws and roof for a robust, dependable seal with no extra work! Couple this with the NXT UMOUNT™ system, and you have a highly reliable, easy-to-install system with integrated wire management

KITTED WITH

- ONE (1) SOLARMOUNT™ Butyl direct-to-deck attachment with pre-applied butyl patch. (Extra patches for shimming available.)
- TWO (2) screws for rafter installation (Additional screws for direct-to-deck applications available.)
- ONE (1) NXT Rail Clamp

