### **APPLICATION FOR BUILDING PERMIT**

The Village of Irvington | 85 Main St | Irvington NY 10533

Application Number:	100	Date:	01/03/2022
Job Location:	16 N ASTOR ST	Parcel ID:	2.40-12-4
Property Owner:	Jaxan Striano LLC	Property Class:	DOWNTOWN ROW
			(COM.WA
Occupancy:	One/ Two Family	Zoning:	
Common Name:			

Applicant	Contractor
Schrader Christine	Schrader Christine
Sunrise Solar Solutions LLC	Sunrise Solar Solutions LLC
510 North State RoadBriarcliff Manor NY 10510	510 North State Road Briarcliff Manor NY 10510
570-269-9486	570-269-9486

### **Description of Work**

Type of Work:	Solar Panels	Applicant is:	Contractor
Work Requested by:	The Owner	In association with:	
Cost of Work (Est.):	81505.00	Property Class:	DOWNTOWN ROW
			(COM.WA

### Description of Work

System is a 16.00 KW DC STC grid-tied, roof mounted, residential photovoltaic system and a 13.0 kWh battery storage system.

**Please Note:** Completing the application does not constitute a permit to commence construction. To obtain your permit follow the instructions on the instruction page provided on page 3.

### INSTRUCTIONS

### **REQUIREMENTS FOR OBTAINING A PERMIT:**

### The following items must be submitted in order to obtain a Building Permit:

- 1. One (1) Building Permit application signed by the owner or a notarized Agent Letter.
- 2. One (1) property survey (signed and sealed), reflecting existing conditions.
- 3. Two (2) sets of construction drawings and specifications, including existing and proposed conditions, state design criteria, structural and architectural details, plans, and cross sections, mechanical, electrical, and plumbing drawings (signed and sealed by a likened professional).
- 4. One USB with all plans (with Licensed Professionals certification/stamp) and specifications in PDF (file size must be less than 25MB).
- 5. Copy of approved site plan from the Irvington Planning Board when applicable (required on all increases of FAR, footprint, coverage, driveways and increases of cubic content under a roof).
- 6. Approval by the Architectural Review Board (ARB) when applicable. An additional five (5) sets of construction drawings and specifications (please see ARB requirements (available on the village web site <a href="https://www.irvingtonny.gov">www.irvingtonny.gov</a>) prior to submission).
- 7. Visit the Village of Irvington website <a href="https://www.irvingtonny.gov">www.irvingtonny.gov</a>
  for additional check list for solar panels, generators, underground propane tanks, signs and awnings(found in forms and documents in the Building & Planning General Information folder).
- 8. Village Zoning Code is available on the Village website: www.irvingtonny.gov.
- 9. Provide evidence that the application meets the NYS Energy code as described by www.dos.state.ny.us/code/energycode/overview.htm

### Contractor Requirements in order to obtain a Building Permit:

- 10. Contractor's Certificate of Liability listing the Village of Irvington as the Certificate Holder with no disclaimer in the description other than certificate holder is named additional insured (any additional comments will not be accepted).
- 11. Contractor's Workers Compensation C-105 form (or equivalent) listing the Village of Irvington as Certificate Holder.
- 12. Copy of Contractor's Westchester County Home Improvement License.
- **13.** All information above uploaded into permit application with the contractor's contact information, including mailing address, phone number, and email address.
- 14. Contractor's signature on Affidavit of Contractor (required prior to issuance of the permit).

### Please Note:

-State Law requires that the contractor submits a copy of Workman's Compensation as required by the New York State
Disability Insurance naming the Department of Buildings, Village of Irvington as certificate holder and showing coverage for general
contacting and the locations covered by such insurance. If structure is to be demolished a copy of Liability Insurance must also be
submitted.

- Please be advised under State and Municipal Laws, the Workman's Compensation and Disability benefits insurance must be submitted on separate state approved forms. The "Acord Form" is no longer acceptable as proof of Workman's Compensation coverage. Further information or questions may be answered by calling the NYS Bureau of Compliance at (518) 486-6307 or by visiting their website or by contacting your insurance provider.

### FEES ASSOCIATED WITH BUILDING PERMIT APPLICATION (All fees must be paid at time of application):

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Building Permit (Non-Refundable)

\* Application fee \$85
\* Permit fee \$17 per thousand dollars (\$1000) of estimated cost of construction, or fraction thereof

### • Inspection Fees (as applicable)

- Insulation: \$50
- Solid Fuel: \$50
- Foundation and footing drain: \$50
- Energy Code Compliance: \$50
- Sediment and erosion control: \$50
- Footing: \$50
- Preparation for concrete slabs and walls: \$50
- Footing: \$50
- Preparation for concrete slabs and walls: \$50
- Framing: \$50
- Building systems, including underground and rough-in: \$50
- Fire resistant construction and penetrations: \$50
- Final Inspection for C.O.: \$50
- State and local laws (per re-inspection): \$50

Total Inspections \_\_\_\_\_

- \* Certificate of Occupancy Fees: One dollar (\$1.00) per thousand dollars of estimated cost. Minimum Fee \$25.00
- \* Permit Revisions or Amendment: \$50.00 (plus \$17 per thousand (\$1000), of the estimated cost of construction and any additional inspections fees).
- \* Re-inspection fee for work not ready at time of inspection or not in compliance: \$50
- \* Applications for Undocumented Work/ Legalizing: Applications to legalize work done prior toapplying for and receiving a building permit shall pay double all applicable fees and inspections, including the cost of construction based on the cost of all proposed work being legalized at the time of application. Minimum fee \$500.00.

(To be collected at time of submission of application)Total

(Note: pursuant to 224-54A all permits are valid for one (1) year from date on permit Any permit that expires will be subject to additional fees.)

Job Location: 16 N ASTOR ST Parcel ld: 2.40-12-4

AFFIDAVIT O	F APP	LICANT
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	der Christine being duly sworn, depose and says: That s/he does business as: Sunrise Solar Solutions LLC with at: 510 North State Road Briarcliff Manor NY 10510 and that s/he is:
	The owner of the property described herein.
	The of the New York Corporation with offices at:
	duly authorized by resolution of the Board of Directors, and that
	said corporation is duly authorized by the owner to make this application.
	A general partner of and that said
	Partnership is duly authorized by the Owner to make this application.  The Lessee of the premises, duly authorized by the owner to make this application.
	The Architect of Engineer duly authorized by the owner to make this application.
X	The contractor authorized by the owner to make this application.
kno Uni Iaw	at the information contained in this application and on the accompanying drawings is true to the best of his wledge and belief. The undersigned hereby agrees to comply with all the requirements of the New York State form Fire Prevention and Building Code, the Village of Irvington Building Code, Zoning Ordinance and all other is pertaining to same, in the construction applied for, whether or not shown on plans or specify in this application.
Not	Anthony Covone  Notary Public / Commission of Deeds  Reg. No. 01CO6118733 Applicant's Signature  Qualified in Westchester County
OWNE	Commission Expires November 15, 2024  R'S AUTHORIZATION
Llavan	Striano LLC as the owner of the subject premises and have authorized the contractor named above to perform
	k under the subject application.
Ow	ner phone number (914)450-536 Owner email address ISteinmetz 1 @ me. com
$\rightarrow$	JULIA STEINMETE! hereby acknowledge that it is my responsibility as the property owner
	to ensure that if the permit (if issued) receives a Final Certificate of Approval from the Building Department and further that if a Final Certificate of Approval is not obtained upon completion of the construction, a property violation may be placed on the property for which this permit is being requested.
	Sworn to before me this, 5th day of <u>Januar</u> of <u>2022</u>
	and my
	Notary Public / Commission of Deeds  AMINE OULD IBBAT
	Notary Public, State of New York No. 010U6121096
(	Qualified in Westchester County Commission Expires January 10, 20 <b>2</b> 5

insurances and the appropriate fee (must be filed by the licensed contractor, see village application for further details).



By signing this affidavit I

### BUILDING DEPARTMENT VILLAGE OF IRVINGTON

TET: (614) 261-8332 • EVX: (614) 261-2870 IRVINGTON, NEW YORK 10533 85 MAIN STREET

18) Separate Electrical Permit application by a Westchester County Department of Licensing, licensed Electrician with required

20) Applicant has provided seven copies of the entire submittal for Architectural Review Board approval. 19) Submit signed check list with submission and appropriate building permit fee.

510 N State Rd Applicants Address: Applicant Affidavit: Sunrise Solar Solutions, LLC.

courtneylynn.m@sunrisesolarllc.com Applicants Email (914) 762-7622 Applicants Phone # Briarcliff Manor, NY 10510

Applicant Name: Couriney Mellina

and that all information asked for above has been submitted and that the submitted information is correct. attest to have read the attached Solar Energy Equipment Code and and that all information asked for observed. quipment Guidelines manufactures installation instructions

Contractors Name: 510 N. State Rd
Contractors Address: 510 N. State Rd
Briarcliff Manor, NY 10510 General Contractor Affidavit: Solar Solutions, LLC. Contractors Name: Sunrise Solar Solutions, LLC.

Contractors Phone # (914) 762-7622
Contractors Email courtneylynn.m@sunrisesolatllc.com

I apply for and receive a Certificate of Completion. and a General Liability Policy listing the Village of Irvington as Certificate Holder and additional insured with no conditions until such time same, and will maintain a valid Westchester County Department of Consumer Protection License, a valid for Workers Compensation Policy affidavit I attest to being the general contractor of record for this application and will be responsible for oversite and direct supervision of Signature: By signing this 1/3/2021 General Contractor Name: Doug Hertz

:91BU

1/3/2021

3: 19 Strawberry Hill Ln West Nyack, NY 10994-1613 Electrical Contractors Address: Electrical Contractors Name: Mil-Mart Electric

Electrical Contractor Affidavit:

Electrical Contractors Email milmartelectric@gmail.com Electrical Contractors Phone #

a Certificate of Completion. Policy listing the Village of Irvington as Certificate Holder and additional insured with no conditions until such time I apply for and receive same, and will maintain a valid Westchester County Electrical License, a valid for Workers Compensation Policy and a General Liability affidavit I aftest to being the electrical contractor of record for this application and will be responsible for oversite and direct supervision of By signing this Signature: Electrical Contractor Name: Date: 1/3/2021 Arthur Schroer

of meetings). Seven sets of copies of the entire application are required to be submitted at the deadline with appropriate fee at the time of submission. the second and fourth Mondays of the month, with a deadline for submissions one week prior to the meetings (see village web site for confirmation and receive approval from the Village of Irvington Architectural Review Board (ARB) prior to issuance of a building permit. The ARB meetings are Note: Applications for all exterior elevation changes including photovoltaic solar systems are required to apply for, make a presentation in front of,

County or State Regulations, or Consolidate Edison Requirements. Unique and Special projects may require additional information. Note: The following list above is given to assist in the application process. It is not intended to be a replacement for the Building or Zoning Code,

\*Only completed applications will be accepted with attached insurance certificates and County license \*Hours of Construction: Monday-Friday 7AM-7PM; Saturday 9AM-5PM; Sunday and holiday's construction is prohibited

### VILLAGE OF IRVINGTON

BUILDING DEPARTMENT

85 MAIN STREET
IRVINGTON, NEW YORK 10533
TEL: (914) 591-8335 • FAX: (914) 591-5870
Web Site: www.Irvingtonny.gov



# LICENSED PROFESSIONAL AFFIDAVIT for RESIDENTIAL SOLAR SYSTEMS

TO BE SUBMITTED AS PART OF THE PERMIT APPLICATION

Signature

(Architect)

### **AFFIDAVIT OF ARCHITECT OR ENGINEER**

County of Westch	ester } ss.:
I the undersigned,	under penalty of perjury, do hereby affirm:
1.	I am an the (architect)(engineer) duly licensed in the State of New York
2.	I am the NYS licensed design professional named in the Application for which a Building Permit for a residential solar system located at
3.	I have inspected the existing building and structure and find that the existing structure with the proposed solar panel installation and connections to the existing roof meet the minimum criteria set forth in;  Applicable Codes:  Design Roof Load: Design Wind Load:  OR have proposed additional measures to insure compliance with above.
4.	I have reviewed the following submitted drawings and/or manufacture specifications as part of the submission  List applicable plans with revision dates:  (rev date)
5.	The plans, drawings and specifications which the Building Permit is requested and listed above, as submitted (a)-were prepared by me or under my supervision, and (b)-to the best of my knowledge comply with the requirements of the Residential Building Code of New York State as adopted by the Village of Irvington, applicable design loads and all other applicable laws, rules and regulations governing building construction.

(Engineer)

Sworn to before me this

day of Jarruary, 2022

Notary Public

REBECCA ASHLEY GREEN

Notary Public - Notary Seal State of Missouri Commissioned for St Charles County My Commission Expires: Mar. 3, 2025 21795639

Page 5

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### NOTICE OF APPLICATION AND HEARING

# Board of Architectural Review Clerk's Office Village of Irvington Westchester County, New York

**CERTIFIED MAIL** 

D	ate of Mailing			
P		prior a meeting where a	ngton notice to adjacent neighb an application for Solar Panels d.	
T	Pate of Meeting: ime of Meeting: ocation of Meeting:	Meeting starts at 8pr Trustees Meeting Ro 85 Main St. Irvington	oom	
Applican	tt Name tt Mailing Address  tt Phone Number tt Email Address		Owners Name Owner Mailing Address Owners Phone Number Owners Email Address	
	ddress of Proposed Solar P. treet Address	anels:		
T	o Adjacent Neighbors of:			

Please take notice that the applicant named above is requesting the Board of Architectural Review of the Village of Irvington to grant a permit for the installation of **Solar Energy Equipment** to the address listed above.

Plans of the proposed work are available in the office of the Irvington Building Department for public inspection during regular business hours 5 days prior to the scheduled meeting.

### 9-12. Solar Energy Equipment.

For any application for a building permit for solar energy equipment, written notice of the application and the date, time and place of the meeting at which it will be considered must be given to all adjacent property\* owners not less than 10 days prior to the meeting date. Notice shall be by a method of mail or a delivery service company providing proof of mailing or delivery or by personal service of such notice on the property owners, evidenced by their signature as acknowledgment of receipt of such notice on a form supplied or similar to one supplied by the Village Clerk. Proof of service of the notice shall be filed prior to or at the meeting at which the application is considered. ("Adjacent property" refers to any neighbor that shares a property line with the subject property as well as neighbors across any

street from the subject property.)

### **Sunrise Solar Solutions**

### Check Request

Date Requested:	1/10/2021
Date Needed:	By 1/11/2021
Job Number:	20-0004 Steinmetz
Reason:	Village of Irvington Building Department for Building Permit (Revised)
G/L Class:	
Make Out to:	Village of Irvington Building Department
	85 Main St.
	Irvington, NY 10533
Amount:	\$860
Requested by:	Courtney Mellina
Memo:	

# Westchester County Electrical Licensing Board Westchester County Consumer Protection Master Electrician License 2022



License No. 1690 Expires on:12/31/2022

Arthur Schroer

D.O.B: 2/20/1976

Company:

Secka Electric, Inc/Mil-Mart Electric

19 Strawberry Hill Lane

West Nyack, NY 10994



Peter Borducci

TOTAL MOS HELL WALL TENSOR





# CERTIFICATE OF INSURANCE COVERAGE NYS DISABILITY AND PAID FAMILY LEAVE BENEFITS LAW

PART 1. To be completed by NYS disability and Paid Family Le	ave benefits carrier or licensed insurance agent of that carrier			
1a. Legal Name & Address of Insured (use street address only) SUNRISE SOLAR SOLUTIONS, LLC	1b. Business Telephone Number of Insured 914-762-7622			
510 NORTH STATE ROAD BRIARCLIFF MANOR, NY 10510	1c. Federal Employer Identification Number of Insured			
Work Location of Insured (Only required if coverage is specifically limited to certain locations in New York State, i.e., Wrap-Up Policy)	or Social Security Number 270479601			
Name and Address of Entity Requesting Proof of Coverage     (Entity Being Listed as the Certificate Holder)	3a. Name of Insurance Carrier ShelterPoint Life Insurance Company			
Irvington Building Department	Cheffelt of the insurance company			
Village Hall	3b. Policy Number of Entity Listed in Box "1a"			
85 Main Street	DBL333258			
Irvington, NY 10533	3c. Policy effective period			
	02/08/2021 to 02/07/2023			
<ul> <li>4. Policy provides the following benefits: <ul> <li>A. Both disability and paid family leave benefits.</li> <li>B. Disability benefits only.</li> <li>C. Paid family leave benefits only.</li> </ul> </li> <li>5. Policy covers: <ul> <li>A. All of the employer's employees eligible under the NYS Disability</li> <li>B. Only the following class or classes of employer's employees:</li> </ul> </li> </ul>	and Paid Family Leave Benefits Law.			
insured has NYS Disability and/or Paid Family Leave Benefits insurance co	icensed agent of the insurance carrier referenced above and that the named verage as described above.			
Date Signed By	Canapaasi D. Vand			
	ichard White, Chief Executive Officer			
IMPORTANT: If Boxes 4A and 5A are checked, and this form is sig				
Disability and Paid Family Leave Benefits Law. It mu	T COMPLETE for purposes of Section 220, Subd. 8 of the NYS ust be emailed to PAU@wcb.ny.gov or it can be mailed for ans Acceptance Unit, PO Box 5200, Binghamton, NY 13902-5200.			
PART 2. To be completed by the NYS Workers' Compensati	on Board (Only if Box 4B, 4C or 5B have been checked)			
Workers' Comp According to information maintained by the NYS Workers' Compens NYS Disability and Paid Family Leave Benefits Law(Article 9 of the	New York Densation Board Seation Board, the above-named employer has complied with the Workers' Compensation Law) with respect to all of their employees.			
(5	ignature of Authorized NYS Workers' Compensation Board Employee)			
Telephone Number Name and Title				

**Please Note:** Only insurance carriers licensed to write NYS disability and paid family leave benefits insurance policies and NYS licensed insurance agents of those insurance carriers are authorized to issue Form DB-120.1. **Insurance brokers are NOT authorized to issue this form.** 

DB-120.1 (12-21)

### Additional Instructions for Form DB-120.1

By signing this form, the insurance carrier identified in Box 3 on this form is certifying that it is insuring the business referenced in Box 1a for disability and/or Paid Family Leave benefits under the NYS Disability and Paid Family Leave Benefits Law. The insurance carrier or its licensed agent will send this Certificate of Insurance Coverage (Certificate) to the entity listed as the certificate holder in Box 2.

The insurance carrier must notify the above certificate holder and the Workers' Compensation Board within 10 days IF a policy is cancelled due to nonpayment of premiums or within 30 days IF there are reasons other than nonpayment of premiums that cancel the policy or eliminate the insured from coverage indicated on this Certificate. (These notices may be sent by regular mail.) Otherwise, this Certificate is valid for one year after this form is approved by the insurance carrier or its licensed agent, or until the policy expiration date listed in Box 3c, whichever is earlier.

This Certificate is issued as a matter of information only and confers no rights upon the certificate holder. This Certificate does not amend, extend or alter the coverage afforded by the policy listed, nor does it confer any rights or responsibilities beyond those contained in the referenced policy.

This Certificate may be used as evidence of a NYS disability and/or Paid Family Leave benefits contract of insurance only while the underlying policy is in effect.

Please Note: Upon the cancellation of the disability and/or Paid Family Leave benefits policy indicated on this form, if the business continues to be named on a permit, license or contract issued by a certificate holder, the business must provide that certificate holder with a new Certificate of Insurance Coverage for NYS disability and/or Paid Family Leave Benefits or other authorized proof that the business is complying with the mandatory coverage requirements of the NYS Disability and Paid Family Leave Benefits Law.

### NYS DISABILITY AND PAID FAMILY LEAVE BENEFITS LAW

### §220. Subd. 8

- (a) The head of a state or municipal department, board, commission or office authorized or required by law to issue any permit for or in connection with any work involving the employment of employees in employment as defined in this article, and not withstanding any general or special statute requiring or authorizing the issue of such permits, shall not issue such permit unless proof duly subscribed by an insurance carrier is produced in a form satisfactory to the chair, that the payment of disability benefits and after January first, two thousand and twenty-one, the payment of family leave benefits for all employees has been secured as provided by this article. Nothing herein, however, shall be construed as creating any liability on the part of such state or municipal department, board, commission or office to pay any disability benefits to any such employee if so employed.
- (b) The head of a state or municipal department, board, commission or office authorized or required by law to enter into any contract for or in connection with any work involving the employment of employees in employment as defined in this article and notwithstanding any general or special statute requiring or authorizing any such contract, shall not enter into any such contract unless proof duly subscribed by an insurance carrier is produced in a form satisfactory to the chair, that the payment of disability benefits and after January first, two thousand eighteen, the payment of family leave benefits for all employees has been secured as provided by this article.

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### **CERTIFICATE OF LIABILITY INSURANCE**

DATE (MM/DD/YYYY) 1/3/2022

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER. AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Levitt-Fuirst Associates, LTD 520 White Plains Road	CONTACT NAME: PHONE (A/C, No, Ext): (914) 457-4200  FAX (A/C, No): (914) 4	457-4200
2nd Floor	E-MAIL ADDRESS: info@levittfuirst.com	
Tarrytown, NY 10591	INSURER(S) AFFORDING COVERAGE	NAIC #
	INSURER A : Southwest Marine & General Insurance Company	12294
INSURED	INSURER B : AmGuard Insurance Company	42390
Sunrise Solar Solutions, LLC	INSURER C: New York State Insurance Fund	36102
510 North State Rd	INSURER D : ShelterPoint	81434
Briarcliff Manor, NY 10510	INSURER E : Fair American Insurance & Reinsurance Co.	35157
	INSURER F:	

COVERAGES CERTIFICATE NUMBER: REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL S	SUBR	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMIT	s	
A	X COMMERCIAL GENERAL LIABILITY				,,	<del>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>	EACH OCCURRENCE	\$	1,000,000
	CLAIMS-MADE X OCCUR			GL202100008728	3/21/2021	3/21/2022	DAMAGE TO RENTED PREMISES (Ea occurrence)	\$	100,000
							MED EXP (Any one person)	\$	5,000
							PERSONAL & ADV INJURY	\$	1,000,000
	GEN'L AGGREGATE LIMIT APPLIES PER:						GENERAL AGGREGATE	\$	2,000,000
	POLICY X PRO- JECT LOC						PRODUCTS - COMP/OP AGG	\$	2,000,000
	OTHER:							\$	
В	AUTOMOBILE LIABILITY						COMBINED SINGLE LIMIT (Ea accident)	\$	1,000,000
	ANY AUTO			SUAU237092	4/25/2021	4/25/2022	BODILY INJURY (Per person)	\$	
	OWNED AUTOS ONLY X SCHEDULED AUTOS						BODILY INJURY (Per accident)	\$	
	X HIRED AUTOS ONLY X NON-OWNED AUTOS ONLY						PROPERTY DAMAGE (Per accident)	\$	
								\$	
Α	UMBRELLA LIAB X OCCUR						EACH OCCURRENCE	\$	5,000,000
	X EXCESS LIAB CLAIMS-MADE			EX202100001810	3/21/2021	3/21/2022	AGGREGATE	\$	5,000,000
	DED X RETENTION \$ 10,000							\$	
С	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY						X PER OTH-		
	ANY PROPRIETOR/PARTNER/EXECUTIVE	N/A		20925574	6/29/2021	6/29/2023	E.L. EACH ACCIDENT	\$	1,000,000
	(Mandatory in NH)	., .					E.L. DISEASE - EA EMPLOYEE	\$	1,000,000
	If yes, describe under DESCRIPTION OF OPERATIONS below						E.L. DISEASE - POLICY LIMIT	\$	1,000,000
D	Disability			DBL333258	2/8/2021	2/7/2023	Statutory Limits		
E	Owners/Contractors P			RPL700031700	3/2/2021	3/21/2022	\$2mm/\$6mm		

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required) Worksite: 16 N Astor St Irvington NY 10533

CERTIFICATE HOLDER

Irvington Building Department/ Village Hall 85 Main St Irvington, NY 10533 CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

Kuth has

### THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

### COMMERCIAL LIABILITY BROADENING ENDORSEMENT-ENERGY

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART PRODUCTS/COMPLETED OPERATIONS LIABILITY COVERAGE PART

With respect to coverage provided by this endorsement, the provisions of the Coverage Form apply unless modified by the endorsement.

### SCHEDULE - EXTENSIONS OF COVERAGE

Coverages		
Additional Insured	Incidental Medical Services Coverage	
Additional Insured – Vendors	Liberalization	
Blanket Waiver Of Subrogation	Non Employment Discrimination	
Broadened Bodily Injury	Non-owned Watercraft Coverage	
Broadened Named Insured	Personal And Advertising Injury	
Duties In The Event Of An Occurrence, Offense, Claim Or Suit	Supplementary Payments – Increased Limits	
Expected Or Intended Injury	Unintentional Failure To Disclose Hazards	
Fire, Explosion, Sprinkler Leakage Or Lightning Legal Liability Coverage		
Information required to complete this Schedule, if not shown above, will be shown in the Declarations.		

Coverage extensions under this section only apply in the event that no other specific coverage for these extensions is provided under this policy. If such specific coverage applies, the terms, conditions and limits of that coverage are the sole and exclusive coverage applicable under this policy, unless otherwise noted in this endorsement.

### 1. Additional Insured

- A. Under Section II Who Is An Insured, Paragraph 2. is amended by the addition of the following:
  - **e.** Any person or organization, other than as specifically named on a separate Additional Insured endorsement attached to this policy, is included as an additional insured, but only to the extent such person or organization is held liable for "bodily injury", "property damage" or "personal and advertising injury" arising out of:
    - (1) The ownership, maintenance, or use of that part of the premises or land owned by, rented to, or leased to you, except such person or organization is not an insured with respect to structural alterations, new construction or demolition operations performed by or on behalf of such person or organization;
    - (2) Your ongoing operations performed for that insured;
    - (3) "Your work" included in the "products-completed operations hazard";
    - (4) Their financial control of you, except such person or organization is not an insured with respect to structural alterations, new construction or demolition operations performed by or on behalf of such person or organization;

- (5) The maintenance, operation or use by you of equipment leased to you by such person or organization;
- (6) Operations performed by you or on your behalf and for which a state or political subdivision has issued a permit, provided such operations are not performed for such state or political subdivision, and are not included within the "products-completed operations hazard";

With respect to the insurance afforded under this provision to such insured, all of the following additional provisions apply:

- (1) You and such person or organization have agreed in a written "insured contract" that such person or organization be added as an additional insured under this policy;
- (2) The "bodily injury", "property damage" or "personal and advertising injury" for which said person or organization is held liable occurs subsequent to the execution of such "insured contract";
- (3) The most we will pay is the lesser of either the Limits of Insurance shown in the Declarations or the Limits of Insurance required by the "insured contract".

### However:

- (1) The insurance afforded under this provision to such additional insured only applies to the extent permitted by law; and
- (2) If coverage provided to the additional insured is required by a contract or agreement, the insurance afforded to such additional insured will not be broader than that which you are required by the contract or agreement to provide for such additional insured.
- **B.** With respect to the insurance afforded to these additional insureds, the following exclusions are added:
  - (1) This insurance does not apply to "bodily injury", "property damage", "personal and advertising injury", "occurrence" or offense:
    - (a) Which takes place at a particular premise after you cease to be a tenant of that premises;
    - (b) Which takes place after the expiration of any equipment lease to which A.e.(5) above applies;
  - (2) With respect to architects, engineers or surveyors, coverage does not apply to "bodily injury", "property damage" or "personal and advertising injury" arising out of the rendering or failure to render any professional services by or for you, including:
    - (a) The preparing, approving, or failing to prepare or approve, maps, shop drawings, opinions, reports, surveys, field orders, change orders, or drawings and specifications;
    - (b) Supervisory, inspection, architectural or engineering services.
- C. Only with respect to coverage provided under 1.A., above, Definition 9. Insured Contract under Section V Definitions is amended to modify the first sentence of this definition as follows:
  - **9.** "Insured contract" means a written contract or written agreement in effect or becoming effective during the term of this policy, as described below:

### 2. Additional Insured - Vendors

- A. Under Section II Who Is An Insured, Paragraph 2. is amended by the addition of the following:
  - f. Any vendor of yours, other than as specifically named on a separate Additional Insured Vendors endorsement attached to this policy, is included as an additional insured, but only with respect to "bodily injury" or "property damage" arising out of "your products" which are distributed or sold in the regular course of the vendor's business.

### However:

- (1) The insurance afforded under this provision to such additional insured only applies to the extent permitted by law; and
- (2) If coverage provided to the additional insured is required by a contract or agreement, the insurance afforded to such additional insured will not be broader than that which you are required by the contract or agreement to provide for such additional insured.
- **B.** With respect to the insurance afforded to these vendors, the following additional exclusions apply:
  - (1) The insurance afforded to the vendor does not apply to:

- (a) "Bodily injury" or "property damage" if the "products-completed operations hazard" is excluded under this policy.
- **(b)** "Bodily injury" or "property damage" for which the vendor is obligated to pay damages by reason of the assumption of liability in a contract or agreement. This exclusion does not apply to liability for damages that the vendor would have in the absence of the contract or agreement;
- (c) Any express warranty unauthorized by you;
- (d) Any physical or chemical change in the product made intentionally by the vendor;
- **(e)** Repackaging, unless unpacked solely for the purpose of inspection, demonstration, testing, or the substitution of parts under instructions from the manufacturer, and then repackaged in the original container;
- **(f)** Any failure to make such inspections, adjustments, tests or servicing as the vendor has agreed to make or normally undertakes to make in the usual course of business, in connection with the distribution or sale of the products;
- (g) Demonstration, installation, servicing or repair operations, except such operations performed by the vendor in full compliance with the manufacturer's written instructions at the vendor's premises in connection with the sale of the product;
- (h) Products which, after distribution or sale by you, have been labeled or relabeled or used as a container, part or ingredient of any other thing or substance by or for the vendor; or
- (i) "Bodily injury" or "property damage" arising out of the liability of the vendor for its own acts or omissions or those of its employees or anyone else acting on its behalf.
- (2) This insurance does not apply to any insured person or organization from whom you have acquired such products or any ingredient, part or container, entering into, accompanying or containing such products.

### 3. Blanket Waiver Of Subrogation

Under Section IV – Conditions, Paragraph 8. Transfer Of Rights Of Recovery Against Others To Us is replaced by the following:

### Transfer Of Rights Of Recovery Against Others To Us And Blanket Waiver Of Subrogation

- **a.** If the insured has rights to recover all or part of any payment we have made under this Coverage Part, those rights are transferred to us. The insured must do nothing after the loss to impair those rights. At our request, the insured will bring "suit" or transfer those rights to us and help us enforce them.
- **b.** If required by a written "insured contract" executed prior to the "occurrence" or offense, we waive any right of recovery we may have against any person or organization named in such "insured contract", because of payments we make for injury or damage arising out of your ongoing operations or "your work" for that person or organization.

### 4. Broadened Named Insured

Under Section II – Who Is An Insured, Paragraph 3. is replaced by the following:

Any organization you newly acquire or form during the policy period, and over which you maintain during the policy period majority ownership or majority interest, will qualify as a Named Insured if:

- **a.** There is no other similar insurance available to that organization;
- **b.** The first Named Insured shown in the Declarations has the responsibility of placing insurance for that organization; and
- c. That organization is incorporated or organized under the laws of the United States of America.

### However:

- **a.** Coverage under this provision is afforded only until the next occurring annual anniversary of the beginning of the policy period shown in the Declarations, or the end of the policy period, whichever is earlier;
- **b.** Coverage **A** does not apply to "bodily injury" or "property damage" that occurred before you acquired or formed the organization; and

**c.** Coverage **B** does not apply to "personal and advertising injury" arising out of an offense committed before you acquired or formed the organization.

No person or organization is an insured with respect to the conduct of any current or past partnership, joint venture, or limited liability company that is not shown as a Named Insured in the Declarations. However, this does not apply to a limited liability company that meets all of the conditions of **Section II – Who Is An Insured**.

### 5. Broadened Bodily Injury

Under **Section V – Definitions**, Paragraph **3.** is replaced by the following:

"Bodily injury" means bodily injury, disability, sickness or disease sustained by a person, including death resulting from any of these at any time. "Bodily injury" includes mental anguish or other mental injury resulting from "bodily injury".

### 6. Duties In The Event Of An Occurrence, Offense, Claim Or Suit

Under **Section IV – Commercial General Liability Conditions**, Paragraph **2.a.** is replaced by the following:

- **a.** You must see to it that we or any licensed agent of ours are notified of a general liability "occurrence" or offense which may result in a claim as soon as practicable after it becomes known to:
  - (1) You, if you are an individual;
  - (2) Your partner or member, if you are a partnership or joint venture;
  - (3) Your member, if you are a limited liability company;
  - (4) Your executive officer if you are an organization other than a partnership, joint venture or limited liability company; or
  - (5) Your authorized representative or insurance manager.

Knowledge of an "occurrence" or offense by persons other than those listed above does not imply that those listed above also have such knowledge.

- **b.** To the extent possible, notice should include:
  - (1) How, when and where the "occurrence" or offense took place;
  - (2) The names and addresses of any injured persons and witnesses; and
  - (3) The nature and location of any injury or damage arising out of the "occurrence" or offense.

### 7. Expected Or Intended Injury

Under Section I – Coverages, Coverage A – Bodily Injury And Property Damage Liability, Paragraph 2., Exclusions, Item a. Expected Or Intended Injury is replaced by the following:

### **Expected Or Intended Injury**

"Bodily injury" or "property damage" expected or intended from the standpoint of the insured.

This exclusion does not apply to "bodily injury" or "property damage" resulting from the use of reasonable force to protect persons or property.

### 8. Fire, Explosion, Sprinkler Leakage Or Lightning Legal Liability Coverage

A. Under Section I – Coverages, Coverage A – Bodily Injury And Property Damage Liability, the final paragraph of the Exclusions provision is replaced by the following:

Exclusions **c**. through **n**. do not apply to damage by fire, explosion, sprinkler leakage or lightning to premises while:

- (1) Rented to you;
- (2) Temporarily occupied by you with the permission of the owner; or
- (3) Managed by you under a written agreement with the owner.

A separate limit of insurance applies to this coverage as described in **Section III – Limits Of Insurance**.

B. UnderSection III – Limits Of Insurance, Paragraph 6. is replaced by the following:

Subject to paragraph **5.** above, the Damage to Premises Rented To You Limit shown in the Declarations for "property damage" to any one premises while rented to you, or in the case of damage by fire, explosion, sprinkler leakage, or lightning while rented to you, temporarily occupied by you with the permission of the owner, or managed by you under a written agreement with the owner, is the greater of:

- a. \$300,000 Any One Premises; or
- **b.** The Damage To Premises Rented To You Limit shown in the Declarations.
- C. Under Section IV Commercial General Liability Conditions, Paragraph 4., Other Insurance, Sub-Paragraph b. Excess Insurance is amended to delete Items (1)(a)(ii) and (1)(a)(iii) in their entirety and replace with the following:
  - (ii) That is Fire, Explosion, Sprinkler Leakage, or Lightning insurance for premises while rented to you, temporarily occupied by you with permission of the owner, or managed by you under a written agreement with the owner;
  - (iii) That is insurance purchased by you to cover your liability as a tenant for "property damage" to premises rented to you, temporarily occupied by you with the permission of the owner, or managed by you under a written agreement with the owner;
- **D.** Under **Section V Definitions**, Paragraph **9.a.** is replaced by the following:
  - a. A contract for a lease of premises. However, that portion of the contract for a lease of premises that indemnifies any person or organization for damage by fire, explosion, sprinkler leakage, or lightning to premises while rented to you, temporarily occupied by you with permission of the owner, or managed by you under a written agreement with the owner, is not an "insured contract";

### 9. Incidental Medical Services Coverage

**Section I – Coverages** is amended to include the following additional coverage:

We will pay for "bodily injury" arising out of the rendering of or failure to render the following treatment or services by an "employee" or "volunteer worker" for an accident occurring during the policy period:

- a. First aid treatment including cardiopulmonary resuscitation (CPR); and
- **b.** Medical, surgical, dental, x-ray, or nursing service or treatment, or the furnishing of food or beverages in connection therewith; and the furnishing or dispensing of drugs, or medical, dental, or surgical supplies or appliances.

However, this coverage does not apply to any insured or to any entity engaged in the business or occupation of providing the services or treatments described in **a**. and **b**. above.

Paragraph e. Employer's Liability of the Exclusions provision of Section I – Coverages, Coverage A – Bodily Injury And Property Damage Liability does not apply to psychological injury arising out of the services described above.

### 10. Liberalization

Section IV - Commercial General Liability Conditions is amended by the addition of the following condition:

### Liberalization

If we revise this endorsement to provide more coverage without additional premium charge, we will automatically provide the additional coverage to all endorsement holders as of the day the revision is effective in your state.

### 11. Non Employment Discrimination Liability

Unless "personal and advertising injury" is excluded from this policy, the following applies:

- A. Under Section V Definitions, Paragraph 14. is amended by the addition of the following:
  - "Personal and advertising injury" also means injury, including consequential "bodily injury" arising out of "discrimination".
- **B. Section V Definitions** is amended by the addition of the following:

"Discrimination" means the unlawful treatment of a person or class of persons because of their specific race, color, religion, gender, age or national origin in comparison to one or more persons who are not members of the specified class.

C. Under Section I – Coverages, Coverage B – Personal And Advertising Injury Liability, Paragraph
 2. Exclusions is amended by the addition of the following exclusions:

This insurance does not apply to:

"Discrimination" directly or indirectly related to the past employment, employment or prospective employment of any person or class of persons by any insured;

"Discrimination" directly or indirectly related to the sale, rental, lease or sublease or prospective sale, rental, lease or sublease of any dwelling or permanent lodging by or at the direction of any insured;

"Discrimination", if insurance thereof is prohibited by law; or

Fines, penalties, specific performance, or injunctions levied or imposed by a governmental entity, governmental code, law, or statute because of "discrimination".

### 12. Non-owned Watercraft Coverage Extension

Under Section I – Coverages, Coverage A – Bodily Injury And Property Damage Liability, Paragraph 2.g.(2) of the Aircraft, Auto Or Watercraft exclusion is replaced by the following:

This exclusion does not apply to:

- (1) A watercraft you do not own that is:
  - (a) Less than 50 feet long; and
  - **(b)** Not being used to carry persons or property for a charge;

### 13. Personal And Advertising Injury Liability

Unless "personal and advertising injury" is excluded from this policy, the following applies:

Under Section I – Coverages, Coverage B – Personal And Advertising Injury Liability, Paragraph 2.e. Contractual Liability of the Exclusions provision is deleted.

### 14. Supplementary Payments – Increased Limits

Under Section I – Coverages, Supplementary Payments – Coverages A and B, Paragraphs 1.b., 1.d., and 1.e. are replaced by the following:

- **b.** The cost of bail bonds required because of accidents or traffic law violations arising out of the use of any vehicle to which the Bodily Injury Liability Coverage applies. We do not have to furnish these bonds.
- **d.** All reasonable expenses incurred by the insured at our request to assist us in the investigation or defense of the claim or "suit", including substantiated loss of earnings up to \$500 a day because of time off from work.
- e. All court costs taxed against the insured in the "suit".

### 15. Unintentional Failure To Disclose Hazards

Under Section IV – Commercial General Liability Conditions, Paragraph 6. Representations is amended by the addition of the following:

**d.** If you unintentionally fail to disclose any hazards existing at the inception date of this policy, we will not deny coverage under this Coverage Form because of such failure.

However, this provision does not affect our right to collect additional premium or exercise our right of cancellation or non-renewal.

All other terms, definitions, conditions and exclusions of this policy remain unchanged.

Page 19

### THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

# PRIMARY AND NONCONTRIBUTORY – OTHER INSURANCE CONDITION

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART PRODUCTS/COMPLETED OPERATIONS LIABILITY COVERAGE PART

The following is added to the **Other Insurance** Condition and supersedes any provision to the contrary:

### **Primary And Noncontributory Insurance**

This insurance is primary to and will not seek contribution from any other insurance available to an additional insured under your policy provided that:

(1) The additional insured is a Named Insured under such other insurance; and

(2) You have agreed in writing in a contract or agreement that this insurance would be primary and would not seek contribution from any other insurance available to the additional insured.



### CERTIFICATE OF WORKERS' COMPENSATION INSURANCE

^^^^^ 270479601 LEVITT-FUIRST ASSOCIATES LTD 520 WHITE PLAINS ROAD, 2ND FL TARRYTOWN NY 10591



SCAN TO VALIDATE AND SUBSCRIBE

**POLICYHOLDER** 

SUNRISE SOLAR SOLUTIONS LLC 510 NORTH STATE ROAD BRIARCLIFF MANOR NY 10510 **CERTIFICATE HOLDER** 

IRVINGTON BUILDING DEPARTMENT VILLAGE HALL 85 MAIN STREET IRVINGTON NY 10533

POLICY NUMBER	CERTIFICATE NUMBER	POLICY PERIOD	DATE
G2092 557-4	291586	06/29/2021 TO 06/29/2022	1/2/2022

THIS IS TO CERTIFY THAT THE POLICYHOLDER NAMED ABOVE IS INSURED WITH THE NEW YORK STATE INSURANCE FUND UNDER POLICY NO. 2092 557-4, COVERING THE ENTIRE OBLIGATION OF THIS POLICYHOLDER FOR WORKERS' COMPENSATION UNDER THE NEW YORK WORKERS' COMPENSATION LAW WITH RESPECT TO ALL OPERATIONS IN THE STATE OF NEW YORK, EXCEPT AS INDICATED BELOW.

IF YOU WISH TO RECEIVE NOTIFICATIONS REGARDING SAID POLICY, INCLUDING ANY NOTIFICATION OF CANCELLATIONS, OR TO VALIDATE THIS CERTIFICATE, VISIT OUR WEBSITE AT HTTPS://WWW.NYSIF.COM/CERT/CERTVAL.ASP. THE NEW YORK STATE INSURANCE FUND IS NOT LIABLE IN THE EVENT OF FAILURE TO GIVE SUCH NOTIFICATIONS.

THIS POLICY AFFORDS COVERAGE TO THE SOLE PROPRIETOR, PARTNERS AND/OR MEMBERS OF A LIMITED LIABILITY COMPANY.

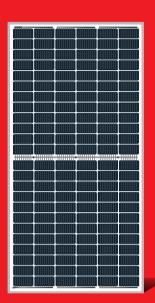
DOUGLAS HERTZ RAND M MANASSEE ERIC MESSER SUNRISE SOLAR SOLUTIONS LLC

THE POLICY INCLUDES A WAIVER OF SUBROGATION ENDORSEMENT UNDER WHICH NYSIF AGREES TO WAIVE ITS RIGHT OF SUBROGATION TO BRING AN ACTION AGAINST THE CERTIFICATE HOLDER TO RECOVER AMOUNTS WE PAID IN WORKERS' COMPENSATION AND/OR MEDICAL BENEFITS TO OR ON BEHALF OF AN EMPLOYEE OF OUR INSURED IN THE EVENT THAT, PRIOR TO THE DATE OF THE ACCIDENT, THE CERTIFICATE HOLDER HAS ENTERED INTO A WRITTEN CONTRACT WITH OUR INSURED THAT REQUIRES THAT SUCH RIGHT OF SUBROGATION BE WAIVED.

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS NOR INSURANCE COVERAGE UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICY.

NEW YORK STATE INSURANCE FUND

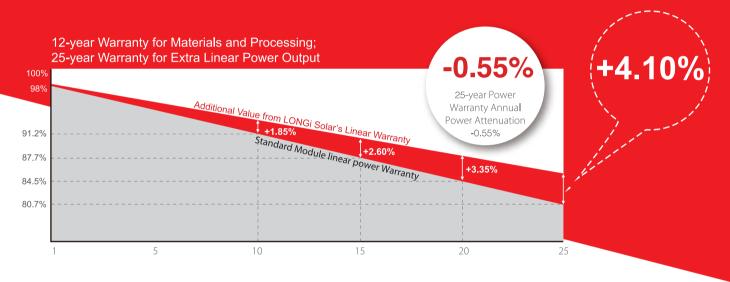
DIRECTOR, INSURANCE FUND UNDERWRITING



# 1R4-72HPH 425~455M



High Efficiency
Low LID Mono PERC with
MBB & Half-cut Technology



### **Complete System and Product Certifications**

IEC 61215, IEC 61730, UL 61730

ISO 9001:2008: ISO Quality Management System
ISO 14001: 2004: ISO Environment Management System

OHSAS 18001: 2007 Occupational Health and Safety







\* Specifications subject to technical changes and tests. LONGi Solar reserves the right of interpretation. Positive power tolerance (0 ~ +5W) guaranteed

High module conversion efficiency (up to 20.9%)

**Slower power degradation** enabled by Low LID Mono PERC technology: first year <2%, 0.55% year 2-25

**Solid PID resistance** ensured by solar cell process optimization and careful module BOM selection

Reduced resistive loss with lower operating current

Higher energy yield with lower operating temperature

Reduced hot spot risk with optimized electrical design and lower operating current



LONGi Green Energy Technology Co., Ltd.

Address: Level 8 / 124 Walker Street North Sydney NSW 2060 Australia
Tel: +61 2 8484 5806 E-mail: info@longi-solar.com.au Website: www.long-solar.com.au

Note: Due to continuous technical innovation, R&D and improvement, technical data above mentioned may be of modification accordingly. LONGi have the sole right to make such modification at anytime without further notice; Demanding party shall request for the latest datasheet for such as contract need, and make it a consisting and binding part of lawful documentation duly signed by both parties.

# \_R4-72HPH **425~455M**

### Design (mm)

# 

### **Mechanical Parameters**

Cell Orientation: 144 (6×24)

Junction Box: IP68, three diodes

Output Cable: 4mm², 1400mm in length

Connector: Staubli EVO2

Glass: Single glass

3.2mm coated tempered glass

Frame: Anodized aluminum alloy frame

Weight: 23.5kg

Dimension: 2094×1038×35mm

Packaging: 30pcs per pallet 150pcs per 20'GP

660pcs per 40'HC

Operational Temperature: -40 C  $^{\sim}$  +85 C Power Output Tolerance: 0  $^{\sim}$  +5 W Voc and Isc Tolerance: ±3% Maximum System Voltage: DC1500V (IEC/UL)

Maximum Series Fuse Rating: 20A Nominal Operating Cell Temperature: 45 $\pm$ 2  $^{\circ}$ C

Safety Protection Class: Class II

**Operating Parameters** 

Fire Rating: Class C according to UL790

### **Electrical Characteristics** Test uncertainty for Pmax: ±3% Model Number LR4-72HPH-425M LR4-72HPH-430M LR4-72HPH-435M LR4-72HPH-440M LR4-72HPH-445M LR4-72HPH-450M LR4-72HPH-455M Testing Condition STC NOCT Maximum Power (Pmax/W) 435 425 317.4 430 321.1 324 9 440 328 6 445 3323 450 336.1 455 339.8 Open Circuit Voltage (Voc/V) 48.3 45.3 48.5 45.5 48.7 45.7 48.9 45.8 49.1 46.0 49.3 46.2 49.5 46.4 Short Circuit Current (Isc/A) 11.23 9.08 11.31 9.15 11.39 9.21 11.46 9.27 11.53 9.33 11.60 9.38 11.66 9.43 Voltage at Maximum Power (Vmp/V) 40.5 37.7 40.7 37.9 40.9 38.1 41.1 38.3 41.3 38.5 41.5 38.6 41.7 38.8 Current at Maximum Power (Imp/A) 8.42 10.57 8.47 10.64 8.53 10.71 8.59 10.78 8.64 10.85 8.70 8.75 Module Efficiency(%) 19.6 19.8 20.0 20.2 20.5 20.7 20.9

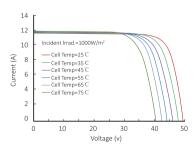
STC (Standard Testing Conditions): Irradiance 1000W/m², Cell Temperature 25 °C, Spectra at AM1.5

NOCT (Nominal Operating Cell Temperature): Irradiance 800W/m², Ambient Temperature 20 °C, Spectra at AM1.5, Wind at 1m/S

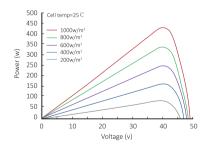
Temperature Ratings (STC)		Mechanical Loading	
Temperature Coefficient of Isc	+0.048%/°C	Front Side Maximum Static Loading	5400Pa
Temperature Coefficient of Voc	-0.270%/ °C	Rear Side Maximum Static Loading	2400Pa
Temperature Coefficient of Pmax	-0.350%/°C	Hailstone Test	25mm Hailstone at the speed of 23m/s

### **I-V Curve**

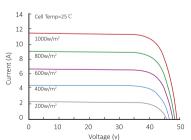
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### Power-Voltage Curve (LR4-72HPH-440M)



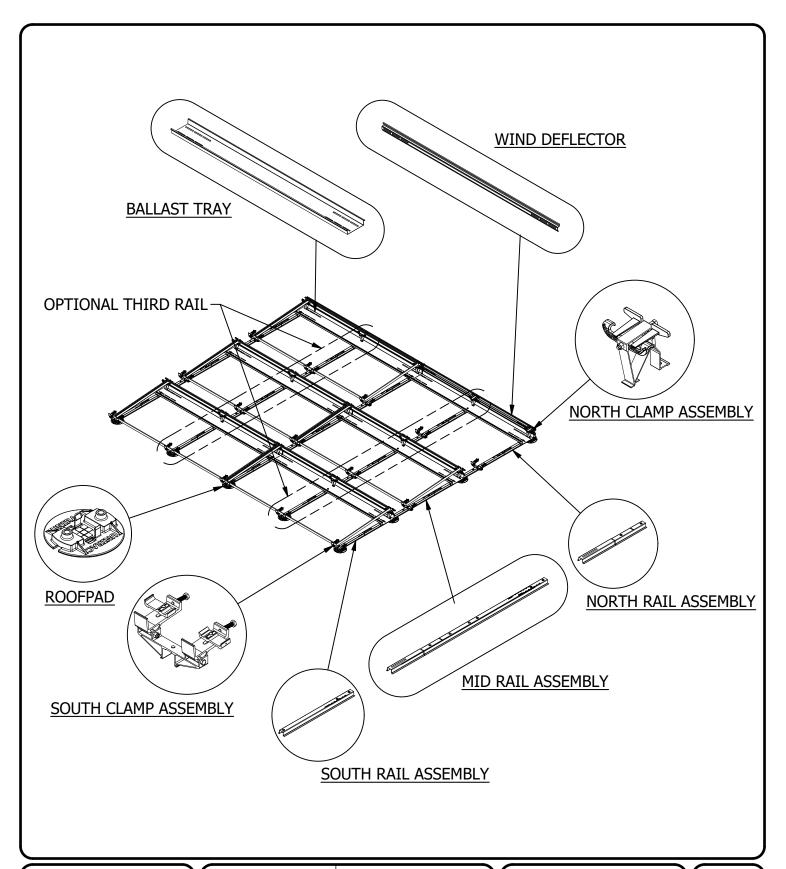
### Current-Voltage Curve (LR4-72HPH-440M)



### LONGi Green Energy Technology Co., Ltd.

Address: Level 8 / 124 Walker Street North Sydney NSW 2060 Australia
Tel: +61 2 8484 5806 E-mail: info@longi-solar.com.au Website: www.long-solar.com.au

Note: Due to continuous technical innovation, R&D and improvement, technical data above mentioned may be of modification accordingly. LONGi have the sole right to make such modification at anytime without further notice; Demanding party shall request for the latest datasheet for such as contract need, and make it a consisting and binding part of lawful documentation duly signed by both parties.





PRODUCT LINE:	GRIDFLEX
DRAWING TYPE:	ASSEMBLY
DESCRIPTION:	MODULE ASSEMBLY
REVISION DATE:	9/15/2021

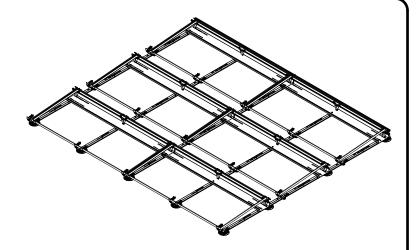
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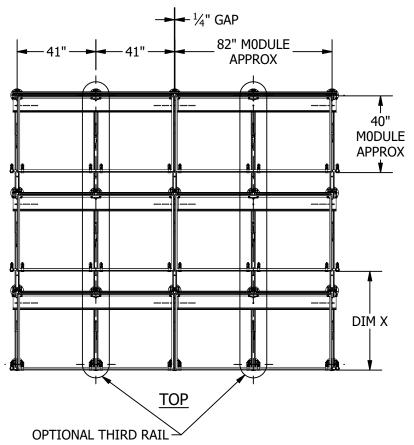
PRODUCT PROTECTED BY
ONE OR MORE US PATENTS
LEGAL NOTICE

GF-A01

### NOTE:

1. ARRAY DIMENSIONS WILL VARY BASED ON MODULE WIDTH & LENGTH.





		DIM	I "X"
MODULE WIDTH	SCALE SETTING	8" ROW SPACING	11" ROW SPACING
38-38.5"	38.5	46.42	49.42
38.51-39"	39	46.92	49.92
39.01-39.5"	39.5	47.42	50.42
39.51-40"	40	47.92	50.92
40.01-40.5"	40.5	48.42	51.42
40.51-41"	41	48.92	51.92
41.01-41.5"	41.5	49.42	52.42
41.51-42"	42	49.92	52.92
42.01-42.5"	42.5	50.42	53.42
42.51-43"	43	50.92	53.92
43.01-43.5"	43.5	51.42	54.42
43.51-44.65"	44	51.92	54.92

**FRONT** 

3½" 5° 6¹½6"

RIGHT SIDE

8" OR 11" SPACING

**#UNIRAC** 

1411 BROADWAY BLVD. NE ALBUQUERQUE, NM 87102 USA PHONE: 505.242.6411 WWW.UNIRAC.COM

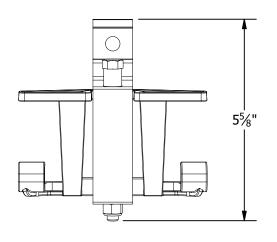
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DRAWING TYPE:	ASSEMBLY
DESCRIPTION:	MODULE ASSEMBLY
REVISION DATE:	3/18/2021

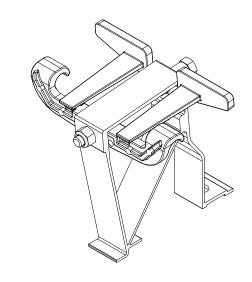
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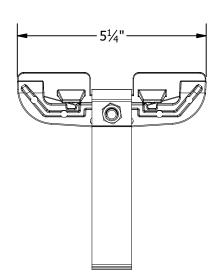
PRODUCT PROTECTED BY
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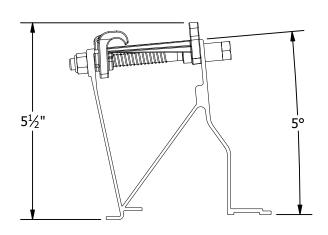
GE-A02

PART # TABLE		
P/N DESCRIPTION		
360041 NORTH CLAMP ASSEMBLY		









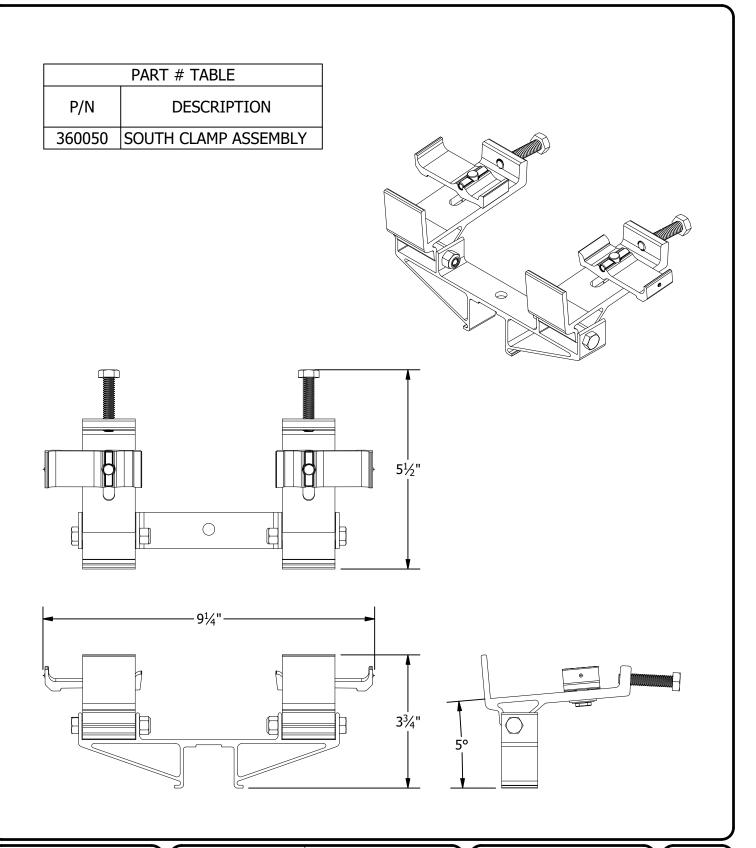


PRODUCT LINE:	GRIDFLEX
DRAWING TYPE:	ASSEMBLY
DESCRIPTION:	NORTH CLAMP
REVISION DATE:	9/15/2021

DRAWING NOT TO SCALE ALL DIMENSIONS ARE NOMINAL

PRODUCT PROTECTED BY
ONE OR MORE US PATENTS
LEGAL NOTICE

GF-A03





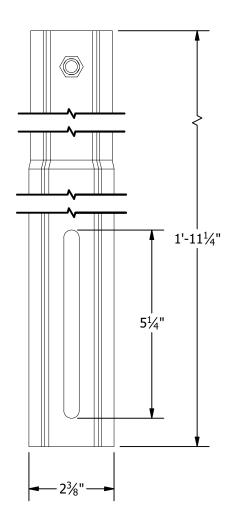
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DRAWING TYPE:	ASSEMBLY
DESCRIPTION:	SOUTH CLAMP
REVISION DATE:	3/18/2021

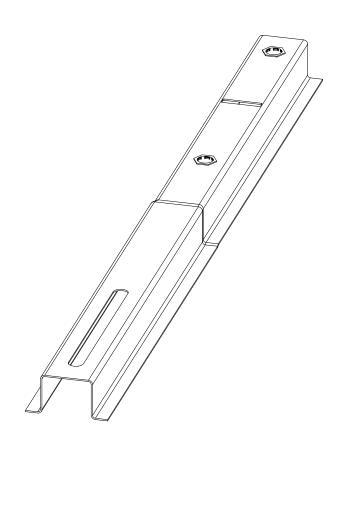
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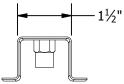
PRODUCT PROTECTED BY
ONE OR MORE US PATENTS
LEGAL NOTICE

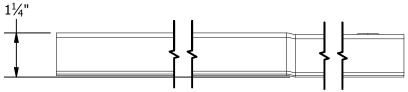
GF-A04

PART # TABLE		
P/N DESCRIPTION		
360010	NORTH RAIL ASSEMBLY	









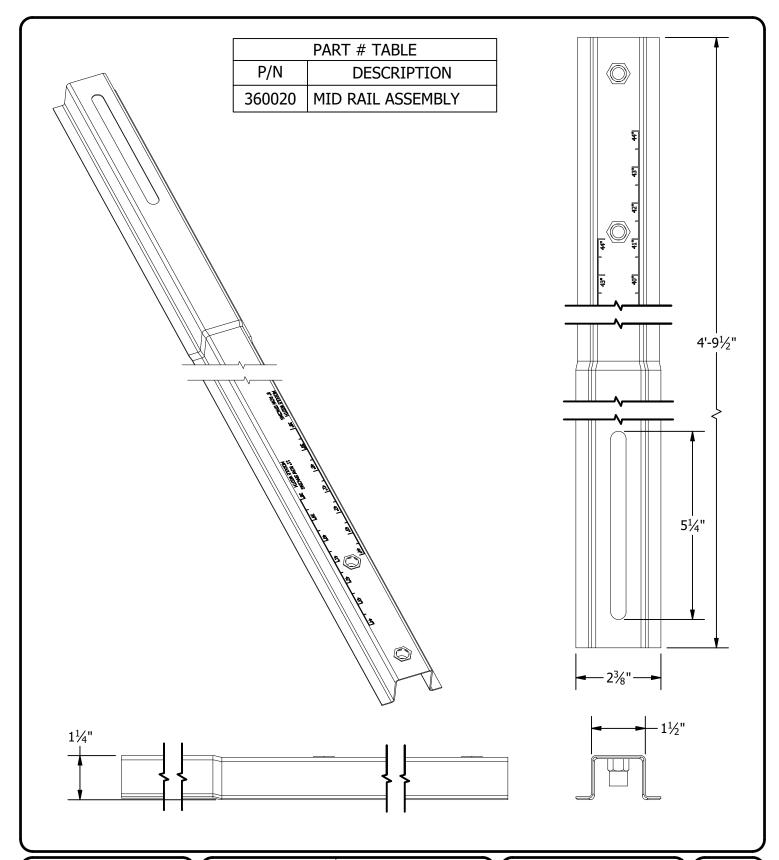


PRODUCT LINE:	GRIDFLEX
DRAWING TYPE:	ASSEMBLY
DESCRIPTION:	NORTH RAIL
REVISION DATE:	1/25/2021

DRAWING NOT TO SCALE ALL DIMENSIONS ARE NOMINAL

PRODUCT PROTECTED BY
ONE OR MORE US PATENTS
LEGAL NOTICE

GF-A05



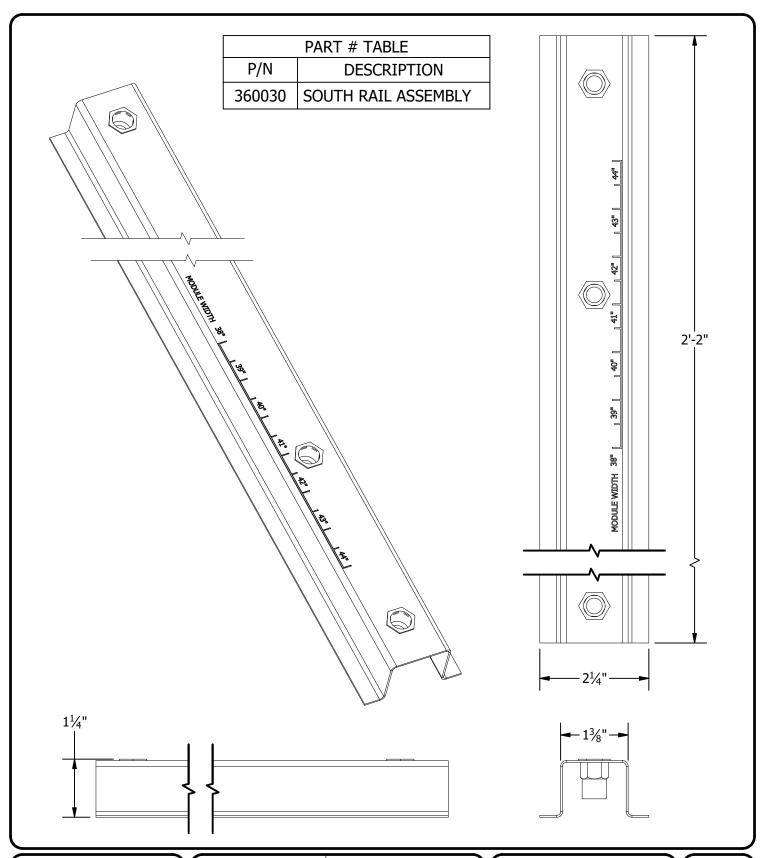


PRODUCT LINE:	GRIDFLEX
DRAWING TYPE:	ASSEMBLY
DESCRIPTION:	MID RAIL
REVISION DATE:	1/14/2021

DRAWING NOT TO SCALE ALL DIMENSIONS ARE NOMINAL

PRODUCT PROTECTED BY
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LEGAL NOTICE

GF-A06





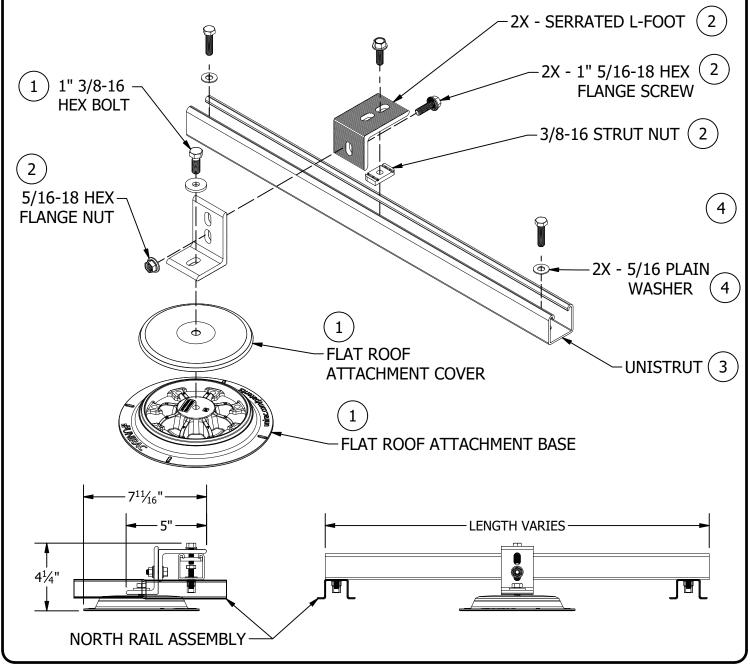
PRODUCT LINE:	GRIDFLEX
DRAWING TYPE:	ASSEMBLY
DESCRIPTION:	SOUTH RAIL
REVISION DATE:	1/14/2021

DRAWING NOT TO SCALE ALL DIMENSIONS ARE NOMINAL

PRODUCT PROTECTED BY
ONE OR MORE US PATENTS
LEGAL NOTICE

GF-A07

ASSEMBLY # TABLE			
ITEM	P/N	DESCRIPTION	
1	310999	FLASHLOC RM KIT	
2	ES10843	ECOFOOT ROOF TO STRUT HDWR KIT	
3	ES20501	B22 GALVANIZED STRUT, 10'	
4	360061	GRIDFLEX HRDWR KIT	





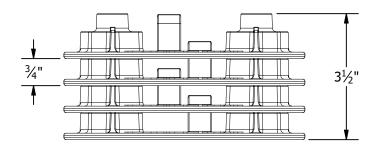
PRODUCT LINE:	GRIDFLEX
DRAWING TYPE:	ASSEMBLY
DESCRIPTION:	ATTACHMENT KIT
REVISION DATE:	8/30/2021

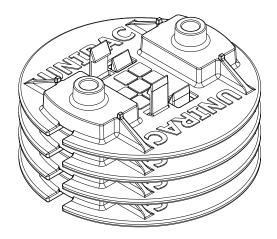
DRAWING NOT TO SCALE ALL DIMENSIONS ARE NOMINAL

PRODUCT PROTECTED BY
ONE OR MORE US PATENTS
LEGAL NOTICE

GF-A08

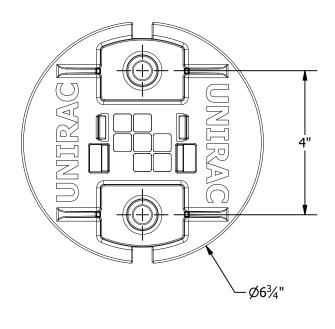
PART # TABLE	
P/N	DESCRIPTION
360060	ROOFPAD

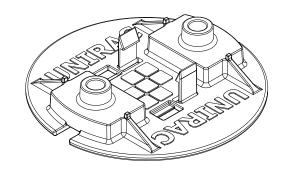


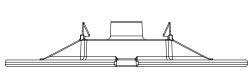


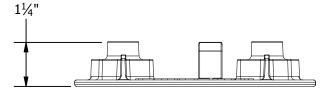
### NOTE:

ROOFPADS MAY BE STACKED (UP TO 4) AS SHOWN TO ACCOMMODATE ROOF UNDULATIONS.
ROOFPAD STACKING NOT ALLOWED ON SOUTH END OF THE ARRAY.











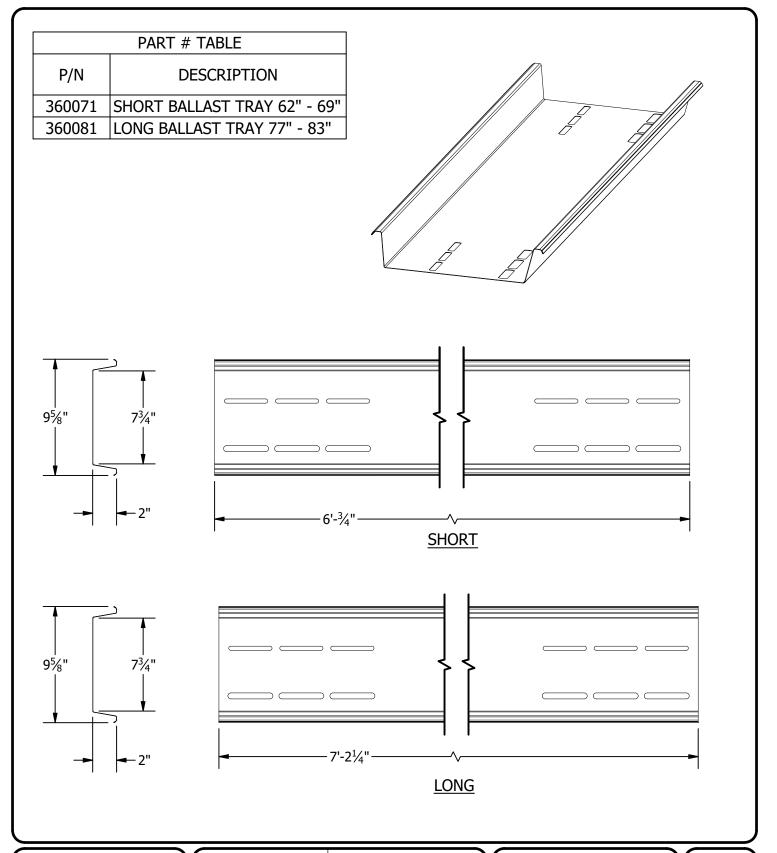
1411 BROADWAY BLVD. NE ALBUQUERQUE, NM 87102 USA PHONE: 505.242.6411 WWW.UNIRAC.COM

PRODUCT LINE:	GRIDFLEX
DRAWING TYPE:	PART
DESCRIPTION:	ROOFPAD
REVISION DATE:	9/15/2021

DRAWING NOT TO SCALE ALL DIMENSIONS ARE NOMINAL

PRODUCT PROTECTED BY
ONE OR MORE US PATENTS
LEGAL NOTICE

GF-P01



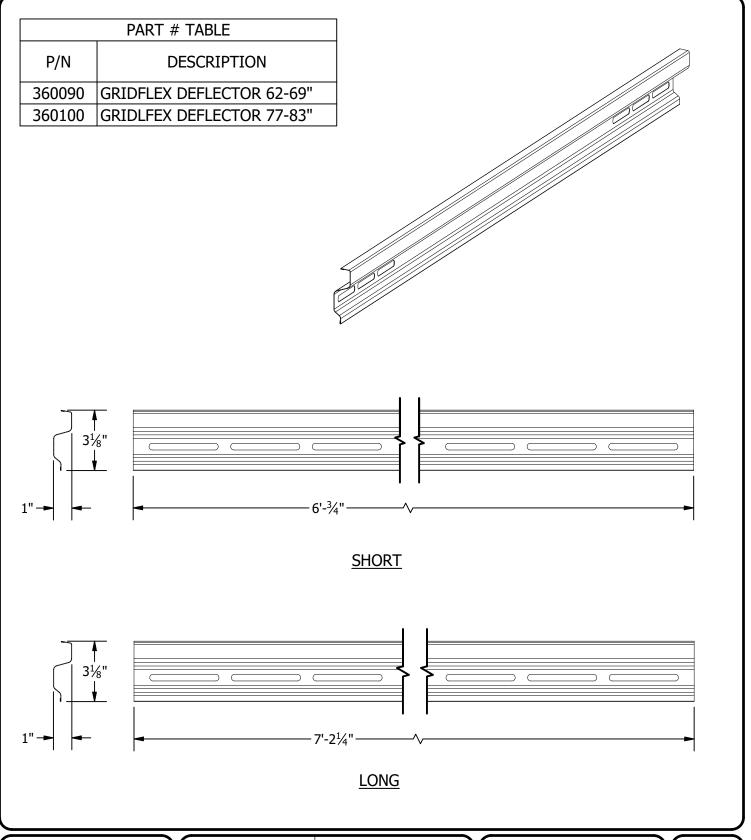


PRODUCT LINE:	GRIDFLEX
DRAWING TYPE:	PART
DESCRIPTION:	BALLAST TRAYS
REVISION DATE:	9/15/2021

DRAWING NOT TO SCALE ALL DIMENSIONS ARE NOMINAL

PRODUCT PROTECTED BY
ONE OR MORE US PATENTS
LEGAL NOTICE

GF-P02





PRODUCT LINE:	GRIDFLEX
DRAWING TYPE:	PART
DESCRIPTION:	WIND DEFLECTORS
REVISION DATE:	1/14/2021

DRAWING NOT TO SCALE ALL DIMENSIONS ARE NOMINAL

PRODUCT PROTECTED BY ONE OR MORE US PATENTS

LEGAL NOTICE

GF-P03





GridFlex™ combines strength and flexibility for the best in flat roof solar. Low ballast counts and ultimate array design flexibility. Rail sections connect to create a rigid structure that greatly reduces ballast weight. Modular, preassembled components offer ultimate array design flexibility and installer preferred construction process. Additionally, preassembled stanchion clamps secure the inside and outside of the module frame for robust reliable connections that can be trusted beyond the 25-year warranty.



# UNLOCK THE TRUE POTENTIAL OF FLAT ROOF SOLAR





# LIGHTER

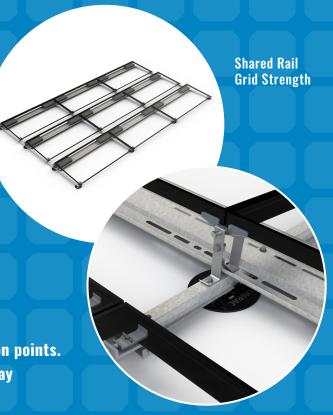
- Grid structure increases load sharing benefits
- Low profile for aerodynamic advantage
- Wind deflectors used at north array edge to reduce ballast

## **FASTER**

- Modular, universal components for easy design and install
- Preassembled components are fast and easy to use
- Hinged module clamp for install and O&M access
- Shared rail, fewer parts, single tool install

# **MORE SECURE**

- Robust, reliable clamps with multiple frame connection points.
- Ballast fully contained under modules in structural tray
- Wind tunnel tested and validated
- Clamp fasteners provide more security than friction-only connections



Clamps Wrap Module Frame

EUL2703 BONDING & GROUNDING MECHANICAL LOADING SYSTEM FIRE CLASSIFICATION

# UNIRAC CUSTOMER SERVICE MEANS THE HIGHEST LEVEL OF PRODUCT SUPPORT













### **TECHNICAL SUPPORT**

UNIRAC's technical support team is dedicated to answering questions & addressing issues in real time. An online library of documents including engineering reports, stamped letters and technical data sheets greatly simplifies your permitting and project planning process.

### **CERTIFIED OUALITY PROVIDER**

UNIRAC is the only PV mounting vendor with ISO certifications for 9001:2015, 14001:2015 and OHSAS 18001:2007, which means we deliver the highest standards for fit, form, and function. These certifications demonstrate our excellence and commitment to first class business practices.

### **BANKABLE WARRANTY**

Don't leave your project to chance, UNIRAC has the financial strength to back our products and reduce your risk. Have peace of mind knowing you are receiving products of exceptional quality. GRIDFLEX<sup>TM</sup> is covered by a twenty five (25) year limited product warranty.

PROTECT YOUR REPUTATION WITH QUALITY RACKING SOLUTIONS BACKED BY ENGINEERING EXCELLENCE AND A SUPERIOR SUPPLY CHAIN

### FLAT ROOF SOLUTIONS | COMPARISON GUIDE



Every project has unique requirements – let the Unirac Commercial Team help optimize the right solution to match your specific project parameters. Our design experts can identify the product solutions that satisfy your specific site variables and project goals.

SUBMIT A		ROOFMOUNT		EC	<b>o</b> foot	GRID <b>FLEX</b>		
QUOTE!		Reliable Simplicity		Upgrade in Aestheti	cs and Aerodynamics	Grid Based For Lower Ballast Weight		
		fers a 10°, 5°, and Dual Tilt solu ple and easy as ballasted solar (		deflectors to reduce uplift.	colution with integral wind Preassembled clamps and of for modules in seconds.	Grid-based structure provides load sharing to reduce system weight. Preassembled, universal components for install speed and flexibility.		
SCAN HERE					7.			
	RM10	RM5	RMDT	EcoFoot2+	EcoFoot5D	GridFlex 5°	GridFlex 10°	
SYSTEM ADVANTAGE	Bay + Clamps #1 Bifacial Solution Validated Install Speed	2 Row Space Options Wind Deflector to Reduce Ballast	Max Module Density Lowest Cost Best Aerodynamics	3 SKUs Validated Install Speed Landscape and Portrait	Each Module Supported by 6 Connection Points	2 Row Space Options Fewer Components than other Grid Systems	3 Row Space Options Fastest Grid System	
LIGHTEST SYSTEM WEIGHT (PSF)			11111		999	11111	11111	
OPTIMAL FOR WIND LOADS	<u> </u>	<u> </u>		<u> </u>	<u> </u>	<u> </u>	<u> </u>	
OPTIMAL FOR SNOW LOADS	***	***	***	****	***	***	***	
INSTALL EASE	****	***	**	****	**	***	***	

KEY: 1 ICON = GOOD 5 ICONS = BEST

### EVERYTHING YOU NEED FOR A QUICK, PROFESSIONAL INSTALLATION

FOR QUESTIONS OR CUSTOMER SERVICE VISIT UNIRAC.COM OR CALL (505) 248-2702

### **Backup Interface**

### for North America

BI-EUSGN-01 / BI-NUSGN-01



### STOREDGE®

### **Backup Interface for Flexible Backup**

- Automatically provides backup power to home loads in the event of grid interruption
- Full flexibility in which loads to backup the entire home or selected loads
- Scalable solution to support higher power & higher capacity
- Built-in Auto Transformer and Energy Meter for easier and faster installation
- Seamless integration with the StorEdge inverter to manage and monitor both PV generation and energy storage
- Generator connection support



### / Backup Interface for North America

### BI-EUSGN-01 / BI-NUSGN-01

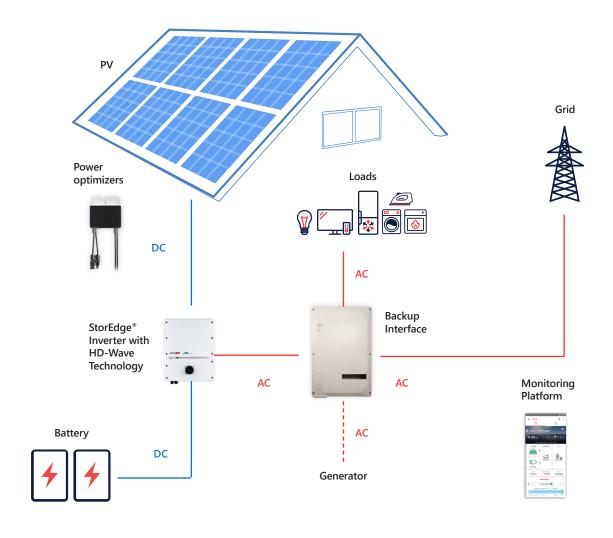
	BI-EUSGN-01	BI-NUSGN-01			
INPUT FROM GRID					
AC Current Input	200		А		
AC Output Voltage (Nominal)	240		Vac		
AC Output Voltage Range	211 - 2	64	Vac		
AC Frequency (Nominal)	60		Hz		
AC Frequency Range	59.3 - 6	0.5	Hz		
Microgrid Interconnection Device Rated Current	200		A		
Service Side AC Main Circuit Breaker Rated Current	200	N/A	A		
Service Side AC Main Circuit Breaker Interrupt Current	10k	N/A	A		
Grid Disconnection Switchover Time	<100	· · · · · · · · · · · · · · · · · · ·	ms		
OUTPUT TO MAIN DISTRIBUTION PANEL			1113		
Maximum AC Current Output	200		A		
AC L-L Output Voltage (Nominal)	240		Vac		
AC L-L Output Voltage (Normal)	211 - 2	64	Vac		
	60	U4	Hz		
AC Frequency (Nominal)		0.5			
AC Frequency Range	59.3 - 6	0.5	Hz		
Maximum Inverters AC Current Output in Backup Operation	78		A W		
Imbalance Compensation in Backup Operation		5000			
AC L-N Output Voltage in Backup (Nominal)		120			
AC L-N Output Voltage Range in Backup	105 - 1.	V			
AC Frequency Range in Backup	55 - 6	55 - 65			
INPUT FROM INVERTER					
Number of Inverter Inputs	3	#			
Rated AC Power	7,600	)	W		
Maximum Continuous Input Current @ 240V	32		A		
Rated AC Power in Continuous Backup Operation	6,100	)	W		
Maximum Continuous Input Current in Backup Operation	26		А		
Peak AC Power (<10 sec) in Backup Operation	7,000	)	W		
Peak AC Current (<10 sec) in Backup Operation	30		А		
Inverter Input AC Circuit Breaker	40		A		
Upgradability	Up to 3 X 4	OA CB <sup>(1)</sup>			
GENERATOR <sup>(2)</sup>		_			
Maximum Rated AC Power	15,00	0	W Adc		
Maximum Continuous Input Current		63			
Dry Contact Switch Voltage Rating		250/30			
Dry Contact Switch Current Rating	5		A		
2-wire Start Switch	Yes				
ADDITIONAL FEATURES					
Installation Type	Suitable for use as service equipment	For main lug only			
Number of Communication Inputs	2				
Communication	RS48:	5			
Energy Meter (for Import/Export)	1% accur	racy			
Manual Control Over Microgrid Interconnection Device	Yes				

<sup>&</sup>lt;sup>(1)</sup> Each 40A CB supports an 7600W inverter; CB upgrade kit is available with the following part numbers: for 40A CB CB-UPG-40-01 <sup>(2)</sup> Requires supporting inverter firmware

### / Backup Interface for North America

### BI-EUSGN-01 / BI-NUSGN-01

	BI-EUSGN-01	BI-NUSGN-01				
STANDARD COMPLIANCE						
Colob	UL1741, CSA	22.2 NO. 107				
Safety	UL869A	N/A				
Emissions	FCC part	15 class B				
INSTALLATION SPECIFICATIONS						
Supported Inverters	StorEdge single phase inverter, StorEdge single phase inverter with HD-Wave Technology					
AC From Grid Conduit Size / AWG Range	2" conduits / #0 - 4/0 AWG					
AC Inverter Conduit Size / AWG Range	1" conduit / 14 - 4 AWG					
AC Generator Input Conduit Size / AWG Range	1" conduit / 8 - 3 AWG					
Communication Conduit Size / AWG Range	3/4" / 24 - 10 AWG					
Weight	73 / 33					
Cooling	Fan (user replaceable)					
Noise	< 50					
Operating Temeprature Range	-40 to +122 / -40 to +50					
Protection Rating	NEMA	3R, IP44				
Dimensions (HxWxD)	20.59 x 13.88 x 8.62	/ 523.5 x 352.5 x 219	in / mm			





### SolarEdge Energy Bank 10kWh Battery

For North America



# BACKUI

### Optimized for SolarEdge Energy Hub Inverters<sup>(1)</sup>

- Maximized system performance, gaining more energy to store and use for on-grid and backup power applications
- Integrates with the complete SolarEdge residential offering, providing a single point of contact for warranty, support, training, and simplified logistics & operations
- DC coupled battery featuring superior overall system efficiency, from PV to battery to grid
- Scalable solution for increased power and capacity with multiple SolarEdge inverters and batteries
- Includes multiple safety features for battery
- Solar, storage, EV charging, and smart devices all monitored and managed by a single app to optimize solar production, consumption and backup\* power
- Wireless communication to the inverter, reducing wiring, labor and installation faults
- Simple plug and play installation, with automatic SetApp-based configuration
- protection



<sup>\*</sup> Backup application are subject to local regulation and may require additional components and firmware upgrade

### / SolarEdge Energy Bank 10kWh Battery

### For North America

BAT-10K1PS0B-01									
BATTERY SPECIFICATION									
Usable Energy (100% depth of discharge)	9700	Wh							
Continuous Output Power	5000	W							
Peak Output Power (for 10 seconds)	7500	W							
Peak Roundtrip Efficiency	>94.5	%							
Warranty <sup>(2)</sup>	10	Years							
Voltage Range	350-450	Vdc							
Communication Interfaces	Wireless*								
Batteries per Inverter	Up to 3 <sup>(3)</sup>								
STANDARD COMPLIANCE									
Safety	UL1642, UL1973, UL9540, UN38.3								
Emissions	FCC Part 15 Class B								
MECHANICAL SPECIFICATIONS									
Dimensions (W x H x D)	31.1 x 46.4 x 9.84 / 790 x 1179 x 250	in / mm							
Weight	267 / 121	lb/kg							
Mounting <sup>(4)</sup>	Floor or wall mount <sup>(5)</sup>								
Operating Temperature <sup>(6)</sup>	+14 to +122 / -10 to +50	°F/°C							
Storage Temperature (more than 3 months)	+14 to +86 / -10 to +30	°F/°C							
Storage Temperature (less than 3 months)	-22 to + 140 / -30 to +60	°F/°C							
Altitude	6562 / 2000	ft/m							
Enclosure Protection	IP55 / NEMA 3R - indoor and outdoor (water and dust protection)								
Cooling	Natural convection								
Noise (at 1m distance)	<25	dBA							

<sup>\*</sup> The SolarEdge Energy Bank is designed for use with SolarEdge Energy Net for wireless communication. The inverter might require a matching SolarEdge Energy Net Plug-in (more details below). Using RS485 could reduce the usable energy to 9500Wh.

<sup>(6)</sup> Please note that operating the SolarEdge Energy Bank at extreme temperatures for extended durations of time may void the Energy Bank's warranty coverage. Please see the Energy Bank Limited Product Warranty for additional details.

SolarEdge Energy Bank Battery – Accessories (purchased separately)								
Accessory	PN							
Floor stand	IAC-RBAT-FLRSTD-01							
Branch connectors set (includes a pair of DC + and DC - connectors) Required for installations with multiple SolarEdge Energy Bank batteries with a single inverter	IAC-RBAT-USYCBL-01							
Handles	IAC-RBAT-HANDLE-01							
SolarEdge Energy Net Plug-in	ENET-HBNP-01							
Battery inverter extension cable 1.5m long (MC4 to terminal block)	IAC-RBAT-05M415-01							

<sup>(1)</sup> Please refer to the SolarEdge Energy Bank battery connections and configuration application note for compatible inverters.

<sup>(2)</sup> For warranty details please refer to the SolarEdge Energy Bank battery Limited Warranty.

(3) Installations with multiple SolarEdge Energy Bank batteries connected to a single inverter require a pair of branch connectors (DC + and DC -) per battery excluding the last battery. Support for 3 batteries is pending supporting inverter firmware. The branch connectors should be purchased separately.

<sup>(4)</sup> Installation and mounting requires handles that should be purchased separately. Please refer to the Accessories' PN table below.

<sup>(5)</sup> The floor stand is purchased separately. One floor stand is required per SolarEdge Energy Bank battery. Please refer to the Accessories' PN table below.

### Single Phase Energy Hub Inverter with Prism Technology For North America SE3000H-US/SE3800H-US/SE6000H-US/SE7600H-US/

SE3000H-US / SE3800H-US / SE6000H-US / SE7600H-US / SE10000H-US / SE11400H-US<sup>(1)</sup>



## HOME BACKUP

### Optimized battery storage with HD-Wave technology

- Record-breaking 99% weighted efficiency with 200% DC oversizing
- Small, lightweight, and easy to install
- Modular design, future ready with optional upgrades to:
  - DC-coupled storage for full or partial home backup
  - Built-in consumption monitoring
  - Direct connection to the SolarEdge smart EV charger

- Multi-inverter, scalable storage solution
  - With enhanced battery power up to 10kW
- Integrated arc fault protection and rapid shutdown for NEC 2014, NEC 2017 and NEC 2020, per article 690.11 and 690.12
- Embedded revenue grade production data, ANSI C12.20 Class 0.5



### Single Phase Energy Hub Inverter with Prism Technology

### **For North America**

SE3000H-US / SE3800H-US / SE6000H-US / SE7600H-US / SE10000H-US / SE11400H-US(1)

	SE3000H-US	SE3800H-US	SE6000H-US	SE7600H-US	SE10000H-US	SE11400H-US	UNITS			
OUTPUT - AC ON GRID							1			
Rated AC Power	3000	3800 @ 240V 3300 @ 208V	6000 @ 240V 5000 @ 208V	7600	10000	11400 @ 240V 10000 @ 208V	W			
Maximum AC Power Output	3000	3800 @ 240V 3300 @ 208V	6000 @ 240V 5000 @ 208V	7600	10000	11400 @ 240V 10000 @ 208V	W			
AC Frequency Range (min - nom - max)			59.3 - 60	) - 60.5 <sup>(2)</sup>			Hz			
Maximum Continuous Output Current @ 240V	12.5	16	25	32	42	47.5	Α			
Maximum Continuous Output Current @ 208V	-	16	24	-	-	48.5	Α			
GFDI Threshold				1			Α			
Total Harmonic Distortion (THD)				3			%			
Power Factor			1, adjustable	-0.85 to 0.85						
Utility Monitoring, Islanding Protection, Country Configurable Thresholds			Ye	es						
Charge Battery from AC (if allowed)			Ye	es						
Typical Nighttime Power Consumption			<2	2.5			W			
OUTPUT - AC BACKUP <sup>(3)</sup>										
Rated AC Power in Backup Operation <sup>(4)</sup>	3000	3800	6000	7600	10000	10300	W			
· ·		7600*	211 -	10300*			Vas			
AC L-L Output Voltage Range in Backup							Vac Vac			
AC L-N Output Voltage Range in Backup		105 - 132 55 - 60 - 65								
AC Frequency Range in Backup (min - nom - max)		16	33 - 0	32			Hz			
Maximum Continuous Output Current in Backup Operation	12.5	32*	25	43*	42	43	А			
GFDI				1			А			
THD			<	5			%			
OUTPUT - SMART EV CHARGER AC										
Rated AC Power			96	9600						
AC Output Voltage Range			211 -	264			Vac			
On-Grid AC Frequency Range (min - nom - max)			59.3 - 6	0 - 60.5			Hz			
Maximum Continuous Output Current @240V (grid, PV and battery)			4	0			Aac			
INPUT - DC (PV AND BATTERY)										
Transformer-less, Ungrounded			Ye	es						
Max Input Voltage			48	30			Vdc			
Nom DC Input Voltage	380						Vdc			
Reverse-Polarity Protection			Ye	es						
Ground-Fault Isolation Detection	600kΩ Sensitivity									
INPUT - DC (PV)										
Maximum DC Power @ 240V	6000	7600 15200*	12000	15200 22800*	- 22000	22800	W			
Maximum DC Power @ 208V	-	6600	10000	-	-	20000	W			
Maximum Input Current <sup>(5)</sup> @ 240V	8.5	10.5 20*	16.5	20 31*	27	31	Adc			
Maximum Input Current <sup>(5)</sup> @ 208V	-	9	13.5	-	-	27	Adc			
Max. Input Short Circuit Current			4	5	1	t .	Adc			
Maximum Inverter Efficiency	99			99.2			%			
CEC Weighted Efficiency			99			99 @ 240V 98.5 @ 208V	%			
2-pole Disconnection			Ye	es		30.3 @ 2007				
= p = = = = = = = = = = = = = = = = = =										

<sup>\*</sup> Supported with PN SExxxxH-USMMxxxxxx or SExxxxH-USMNxxxxxx

<sup>(1)</sup> These specifications apply to inverters with part numbers SExxxxH-USSMxxxxx or SExxxxH-USSNxxxxx and connection unit model number DCD-1PH-US-PxH-F-x

<sup>(2)</sup> For other regional settings please contact SolarEdge support
(3) Not designed for standalone applications and requires AC for commissioning. Backup functionality is only supported for 240V grid
(4) Rated AC power in Backup Operation are valid for installations with multiple inverters. For a single backup inverter operation, rated AC power in Backup is 90% of the value stated

<sup>(5)</sup> A higher current source may be used; the inverter will limit its input current to the values stated

### Single Phase Energy Hub Inverter with Prism Technology

### **For North America**

SE3000H-US / SE3800H-US / SE6000H-US / SE7600H-US / SE10000H-US / SE11400H-US(1)

	SE3000H-US	SE3800H-US	SE6000H-US	SE7600H-US	SE10000H-US SE11400H-US	UNITS	
INPUT - DC (BATTERY)							
Supported Battery Types		Sol	arEdge Energy Ban	k, LG RESU Prime <sup>(6)</sup>			
Number of Batteries per Inverter		Up to 3 Sc	larEdge Energy Ba	nk, up to 2 LG RESU	J Prime		
Continuous Power <sup>(7)</sup>	6000	7600		100	000	W	
Peak Power <sup>(7)</sup>	6000	7600		100	000	W	
Max Input Current	16	20		26	5.5	Adc	
2-pole Disconnection			Υ	es			
SMART ENERGY CAPABILITIES						1	
Consumption Metering			Built	- in <sup>(8)</sup>			
Backup & Battery Storage	With Ba	ickup Interface (pur	chased separately)	for service up to 2	00A; Up to 3 inverters		
EV Charging		I	Direct connection t	o Smart EV charge	r		
ADDITIONAL FEATURES							
Supported Communication Interfaces		RS485, Ethernet,	Cellular <sup>(9)</sup> , Wi-Fi (o <sub>l</sub>	otional),SolarEdge E	nergy Net (optional)		
Revenue Grade Metering, ANSI C12.20			Built	- in <sup>(8)</sup>			
Integrated AC, DC and Communication Connection Unit			Υ	es			
Inverter Commissioning	With the	SetApp mobile app	lication using built-	in Wi-Fi Access Poi	nt for local connection		
DC Voltage Rapid Shutdown (PV and Battery)		Yes, according	g to NEC 2014, NEC	2017 and NEC 202	20 690.12		
STANDARD COMPLIANCE							
Safety		UL1741, UL1741 SA	A, UL1741 PCS, UL16	599B, UL1998, UL95	40, CSA 22.2		
Grid Connection Standards			IEEE1547, Rul	e 21, Rule 14H			
Emissions	FCC part 15 class B						
INSTALLATION SPECIFICATIONS							
AC Output and EV AC Output Conduit Size / AWG Range			1" maximum	1 / 14-4 AWG			
DC Input (PV and Battery) Conduit Size / AWG Range			1" maximum	1 / 14-6 AWG			
Dimensions with Connection Unit (H x W x D)	17.7 x 1	17.7 x 14.6 x 6.8 / 450 x 370 x 174		17.7 x 14.6 x 6.8 / 450 x 370 x 174 17.7 x 14.6 x 6.8 / 450 x 370 x 174*	17.7 x 14.6 x 6.8 / 450 x 370 x 174	in / mn	
Weight with Connection Unit		26 / 11.8		26 / 11.8 30.2 / 13.7*	30.2 / 13.7	lb/kg	
Noise	< 25	< 25 < 50*	< 25		< 50	dBA	
Cooling			Natural C	onvection			
Operating Temperature Range			-40 to +140 /	'-40 to +60 <sup>(10)</sup>		°F/°C	
Protection Rating			NEN	ЛА 4			

<sup>(6)</sup> The part numbers SExxxxXH-USxMxxxxx only support the SolarEdge Energy Bank. The part numbers SExxxxH-USxNxxxxx support both SolarEdge Energy Bank and LG RESU Prime batteries Requires supporting inverter firmware

<sup>(7)</sup> Discharge power is limited up to the inverter rated AC power for on-grid and backup applications

<sup>(8)</sup> For consumption metering current transformers should be ordered separately. SECT-SPL-225A-T-20 or SEACT0750-400NA-20 units per box. Revenue grade metering is only for production metering

<sup>(9)</sup> Information concerning the Data Plan's terms & conditions is available in the following link: https://www.solaredge.com/sites/default/files/se-communication-plan-terms-and-conditions-eng.pdf

<sup>(10)</sup> Full power up to at least 50°C / 122°F; for power de-rating information refer to: https://www.solaredge.com/sites/default/files/se-temperature-derating-note-na.pdf



### **AUTHORIZATION TO ACT AS AGENT**

RE: Building Department	
Village of Irvington	1/13/2022
Municipality	Date
Julia Steinmetz, Jaxan Striano LLC , au and its employees to act on my behalf with all matters conceptant electrical system located at:	thorize Sunrise Solar Solutions, LLC cerning the installation of a solar
Residence of	
Commercial Property/Residence of	-
16 North Astor Street	
Street Address	-
Irvington, NY 10533	
City, State, Zip	-
914-450-5361	
(Area Code) Phone Number	_
I authorize Sunrise Solar Solutions, LLC to file a building per also give Sunrise Solar Solutions, LLC permission to access a plans, and building plans. Please do not hesitate to contact us at 914.762.7622 regard additional information.	a copy of this property's survey, site
Julia Steinmetz, Jaxan Striano LLC  Julia Steinmetz, Jaxan Striano LLC (Jan 20, 2022 16:16 EST)  Customer Signature	
Julia Steinmetz, Owner Jaxan Striano, LLC	
Printed Name	



December 31, 2021

Mr. Kai Mybro Sunrise Solar Solutions, LLC 510 North State Road Briarcliff Manor, NY 10510

RE: Steinmetz – 16 North Astor Street, Irvington, NY 10533 Project # 21.648

Mr. Mybro:

We have reviewed the proposed solar array and the structure(s) at the above referenced address.

The array consists of (40) Sunpower modules on the structure, mounted on a Unirac racking system, with a system weight of 2.8 psf. Attachments to be 5/16" standard lag bolt, with a minimum of 1-1/2" of embedment into the structural member.

We hereby certify that the existing structure, with the addition of the proposed solar energy devices and racking, is capable of supporting the design loads required by the 2020 Residential Code of New York State.

We have attached the calculation for the critical roof member for the structures  $-a\ 3$ "  $x\ 8$ " joist and a 5.25"  $x\ 11.25$ " roof beam, checked for bending stress and deflection in accordance with ASCE 7-10.

Please feel free to contact us should you have any comments or questions.

Respectfully yours,

Matthew J. Boyce, PE

Matthew J. Boyce, PE



Steinmetz Solar Installation

Project Title: Engineer: Project ID: Project Descr:

Printed: 31 DEC 2021, 7:19AM

Software copyright ENERCALC, INC. 1983-2020, Build:12.20.5.31

Eile: Solar 1.ec6
Software copyright ENERCALC, INC. 1983-2020, Build:12.20.5.31

Engineered Solutions

Wood Beam

DESCRIPTION: 2x6 or Larger

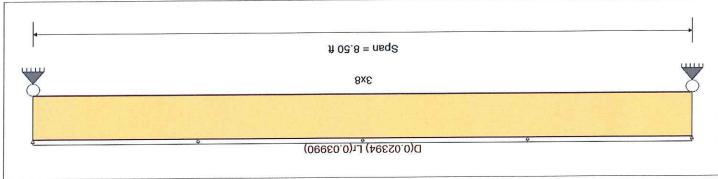
### CODE BEFERENCES

Calculations per NDS 2018, IBC 2018, CBC 2019, ASCE 7-16

Load Combination Set: ASCE 7-16

### Material Properties

(0.03394) Lr(0.03990)									
Stress Increase	Repetitive Member		eional buckling	Bracing : Beam is Fully Braced against lateral-tora	yesm				
34.33 pcf	Density	isq 393 isq 371 isq 039	Fc - Perp 74 14	Species : Southern Pine Grade : No.2: 2" - 4" Thick : 8" Wide					
1600ksi 1600ksi	E : Modulus of Elasticii Ebend- xx xx - bninbend - xx	isq 0021 isq 0021 isq 0331	Fb + Fb - Fc - Prll	is Method: Allowable Stress Design					
THE PURCHASION AND ADDRESS.	E: Modulus of Elasticit		+ q3	rial Properties is Method : Allowable Stress Design					



Service loads entered. Load Factors will be applied for calculations.

Applied Loads
Loads on all spans...

Loads on all spans... Uniform Load on ALL spans : D=0.0180, Lr=0.030 kaf, Tributary Width = 1.330 ft

	(4)	= 0 < 240 = 1717 >= 180	oits A ni 760.0 oits A ni 000.0 oits A ni 960.0 oits A ni 000.0	uoi	Max Downward Transient Deflect Max Downward Total Deflectio Max Downward Total Deflection Max Upward Total Deflection
			ATTEMPTED		Maximum Deflection
f # neq2	=	Span # where maximum occurs	Span # 1	=	Span # where maximum occurs
1J+Q+ 000.0	=	Load Combination Location of maximum on span	+D+Lr 4.250ft	=	Load Combination Location of maximum on span
218.75 psi	=		isq00.327,1	=	
sq 45.91	=		isq 16.31£	=	
8x8		Section used for this span	8x5		Section used for this span
1:880.0	=	Maximum Shear Stress Ratio	1 £81.0	=	aximum Bending Stress Ratio
Design OK	989	,	4		YAAMMUS NƏISƏC
	and the second	TAX TOTAL CALL	Comment have and	1001010	a : cupde any us poor unionio

+D+Lr			l.	0.0	<b>769</b>		182.4						00.0	000	0.0	000
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□09'0+					1,000	00.1	31.1	1.00	00.1	00.1		***	00.0	00.0	00.0	00.0
Length $= 8.50$ ft	l.	331.0	670.0	1.25	1,000	1.00	1.15	00.1	1.00	00.1	64.0	266.55	1725.00	02.0	16.32	218.75
1J087.0+Q+					1,000	1.00	dr.r	00.f	00.r	00.1	1070.40.0071		00.0	00.0	00.0	00.0
Length $= 8.50$ ft	Ļ	681.0	880.0	1.25	1.000	1.00	31.1	1.00	00.1	00.1	86.0	16.315	1725.00	62.0	19.34	218.75
+D+Lr					1,000	00.1	31.1	00.1	1.00	00.1		Mathematical	00.0	00.0	00.0	00.0
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Segment Length	# uedS	M	٨	р	C EN	10	Cr	c m	1 o	٦٥	M	qj	F'b	۸	Λļ	۲,۸
Load Combination		Max Stres	solleR s								Mom	ent Values			2heаг √а	WE .

Project Title: Engineer: Project ID: Project Descr:

Solar Installation Steinmetz

Software copyright ENERCALC, INC. 1983-2020, Build:12.20.5.31 Englineered Solutions Printed: 31 DEC 2021, 7:19AM File: Solar 1.ec6

F!C' #: KM-06012821 Wood Beam

**DESCRIPTION:** 2x6 of Larger

Values in KIPS	Support notation : Far left is #1	·	Vertical Reactions
	Support 2	Support 1	Load Combination
	17Z.0	172.0	MumiXAM IlsavO
	071.0	071.0	MIMIMIM MumiMIMIM
	0.102	201.0	VinO 🗆
	172.0	172.0	+D+Lr
	0.229	0.229	17067.0+O+
	190.0	190.0	G09.0+
	071.0	071.0	Lr Only
	O IIVIIII CANIDA	\$\text{Shoppuls}\$ \frac{\text{\$\Gamma_{\Gamma_{\Gamma}}\text{\$\Gamma_{\Gamma_{\Gamma_{\Gamma}}\text{\$\Gamma_{\Gamma_{\Gamma_{\Gamma_{\Gamma}}\$\Gamma_{\	Σ hoqquδ ↑ hoqquδ  175.0

Solar Installation Steinmetz

Engineer: Project ID: Project Descr: Project Title:

Printed: 31 DEC 2021, 7:27AM

Software copyright ENERCALC, INC. 1983-2020, Build: 12.20.5.31

File: Solar 1.ec6

Engineered Solutions

Wood Beam

TIC: #: KM-06012821

**DESCRIPTION:** Header

### CODE KELEKENCES

Calculations per NDS 2018, IBC 2018, CBC 2019, ASCE 7-16

Load Combination Set: ASCE 7-16

### Material Properties

				earrade	MIGRELIALIO
1800 ksi	E : Modulus of Elasticity xx -bnəd∃ xx - bnədnim∃	2600 psi 2600 psi 2510 psi	+ b+ Fb - Fc - PղII	: Allowable Stress Design 31-7 SCE 7-16	
13q f0.24	Vensity	isq 037 isq 382 isq 3331	Fc - Perp Fy F <sub>t</sub>	: Trus Joist 3 BicroLam LVL 1.9 E	Wood Species Wood Grade
	**************************************	F)	sional buckling	. Beam is Fully Braced against lateral-tors	Beam Bracing

1 0.91 = nsq2 5.250 X 11.250 D(0.1530) L(0.2550)

Service loads entered. Load Factors will be applied for calculations.

Beam self weight calculated and added to loads Applied Loads

Loads on all spans... Uniform Load on ALL spans : D = 0.0180, L = 0.030 kef, Tributary Width = 8.50 ft

		= 360 >= 180	oits9 ni 032.0 oits9 ni 000.0 oits9 ni 853.0 oits9 ni 000.0		Max Downward Transient Deflection Max Downward Transient Deflection Max Downward Total Deflection Max Upward Total Deflection
					Maximum Deflection
f # neq2	=	Span # where maximum occurs	f # nsq2	=	Span # where maximum occurs
115.06611	=	Location of maximum on span	£000.8	=	Location of maximum on span
7+O+		Load Combination	<b>1+0+</b>		noijsnidmoO bsoJ
285.00 psi	=		isq00.009,S	=	
isq 16.87	=		isq 64.474,1	=	
5.250 X 11.250		Section used for this span	5.250 X 11.250		Section used for this span
1:882.0	=	Maximum Shear Stress Ratio	1 795.0	=	aximum Bending Stress Ratio
NO ngisad					YAAMMUS NAISE

1+O+_			<b></b>	3.0	3759		820.8						0.0	0000	0.0	000
Load Combination	- 4	3	gban	"-" ,xsM	[]aQ	Location	ı in Span	1	oo peo-	mbination	ι		"+" .xsM	Defi L	ni noitsoo.	Span
Overall Maxin	առա ք	oitoelte	suc									4				
+0.60D Length = 16.0 ft	Į.	280.0	0,040	09.1	000.1	00.1	1.00	00.1	00.1	00.1	3.27	364.17	4160.00	27.0	£E.81	426.00
1 0.8 t = dlgn9J	ī	986.0	0.182	1.25	000.1	00.1 00.1	00.1 00.1	00.1 00.1	00.1 00.1	00.1 00.1	73.11	1,253.44	3250.00 0.00	2.55 0.00	78.4a 00.0	32°938 00'0
Length = 16.0 ft +D+0.750L	ï	<b>79</b> 6.0	892.0	۱.00	000.f 000.f	00.1 00.1	00.f 00.f	00.1 00.1	00.1 00.1	00.1 00.1	13.61	64.474,1	00.005	3.00 00.0	16.37 00.0	00.00
7+0+					1,000	00.1	00.1	00.1	1.00	00.1			00.0	00.0	00.0	00.0
Vonly 19091 = 1909	k	0.252	911.0	06.0	000.1	00.1	00.1	00.1	00.1	00.1	<b>64.</b> 6	82.063	0.00 2340.00	0.00 1.20	00.0 36.0£	0.00
Segment Length	# uedS	W	٨	р	C EN	! ე	Cr	c <sup>w</sup>	j J	٦٥	M	qj	Fib	٨	ΛJ	۲,۸
Load Combination		Max Stres	solfs Ratios								Mom	nent Values	S		<b>С</b> реаг Va	sənı

Project Title: Engineer: Project ID: Project Descr:

Solar Installation Steinmetz

Printed: 31 DEC 2021, 7:27AM

Software copyright ENERCALC, INC. 1983-2020, Build:12.20.5.31 File: Solar 1.ec6

Lic. #: KW-06012821 Wood Beam

DESCRIPTION: Header

	Choquig thousand	
Values in KIPS	Support notation : Far left is #1	snoit

Values in KIPS	Support notation : Far left is #1		Vertical Reactions
	Support 2	ն դodduS	Load Combination
	3.402	3.402	MumiXAM lls19vO
	2.040	2.040	MumiyllM llsievO
	1.362	1.362	D Only
	3.402	3.402	, T+O+
	2.892	2,892	+D+0'\2007
	718.0	718.0	□09'0+
	2.040	2.040	L Only

### SITE OF PROPOSED SOLAR INSTALLATION:

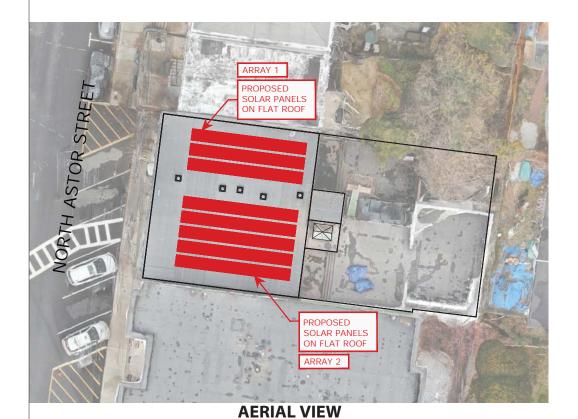
### **Steinmetz Residence**

16 N Astor St, Irvington, NY 10533

### **INSTALLER:**

### **Sunrise Solar Solutions, LLC**

510 North State Road Briarcliff Manor, NY 10510



N.T.S.





VICINITY/PHOTO LOCATION
N.T.S.



**16 North Astor Street** 

#20-0004 12/31/2021 TO

Page 1







**N** Astor Street

**N** Astor Street

VICINITY/PHOTO LOCATION N.T.S.







22 N Astor Street

**20 N Astor Street** 

N Astor Street

#20-0004 12/31/2021 TO

Page 2



Irvington Train Station 7 N Astor Street



**12 N Astor Street** 



VICINITY/PHOTO LOCATION N.T.S.







**27 N Buckhout St** 

**85 Main Street** 

**N** Astor Street

Page 3

### Proposed Solar Panels Array 1 — Array 2 —



**AERIAL VIEW OF BUILDING WITH SOLAR PANELS RENDERING** 

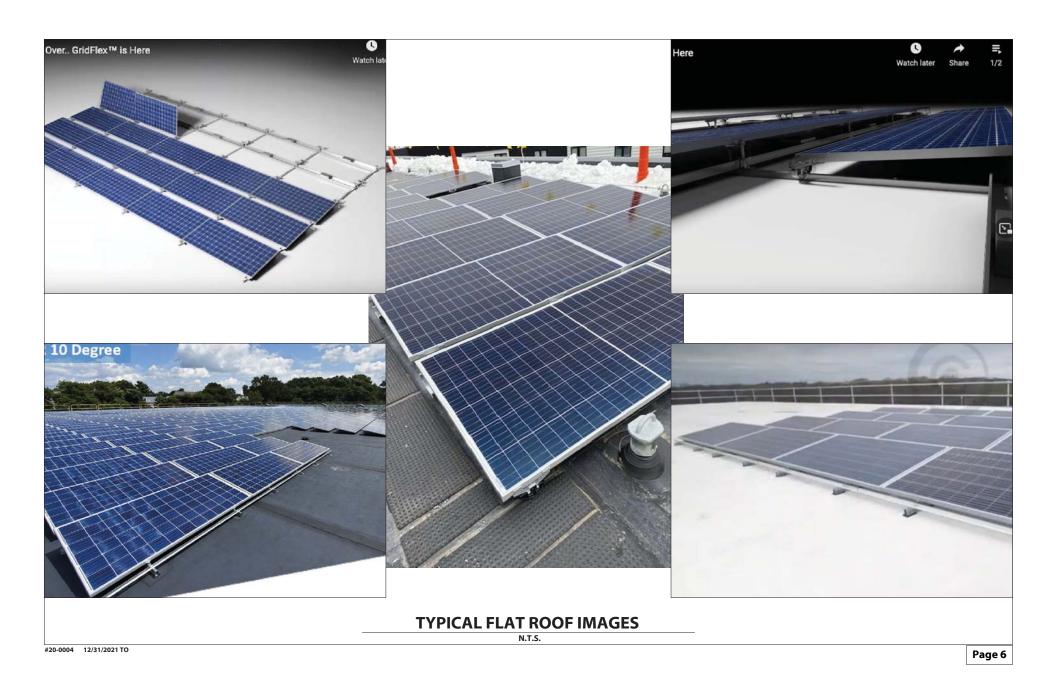
#20-0004 12/31/2021 TO Page 4

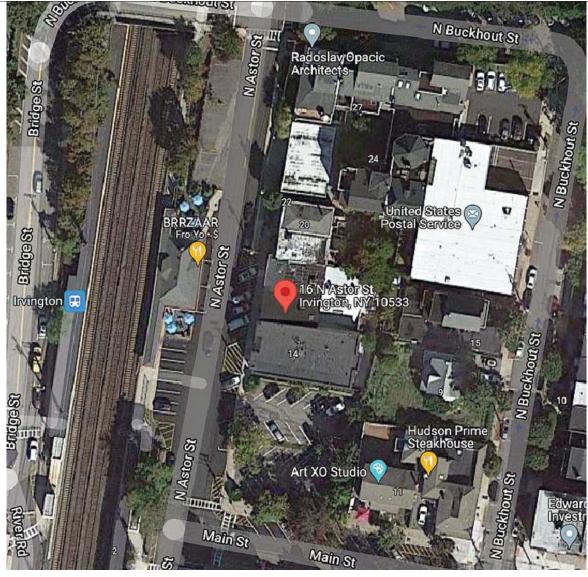
### Proposed Solar Panels Array 2 Array 1



**AERIAL VIEW OF BUILDING WITH SOLAR PANELS RENDERING** 

#20-0004 12/31/2021 TO Page 5



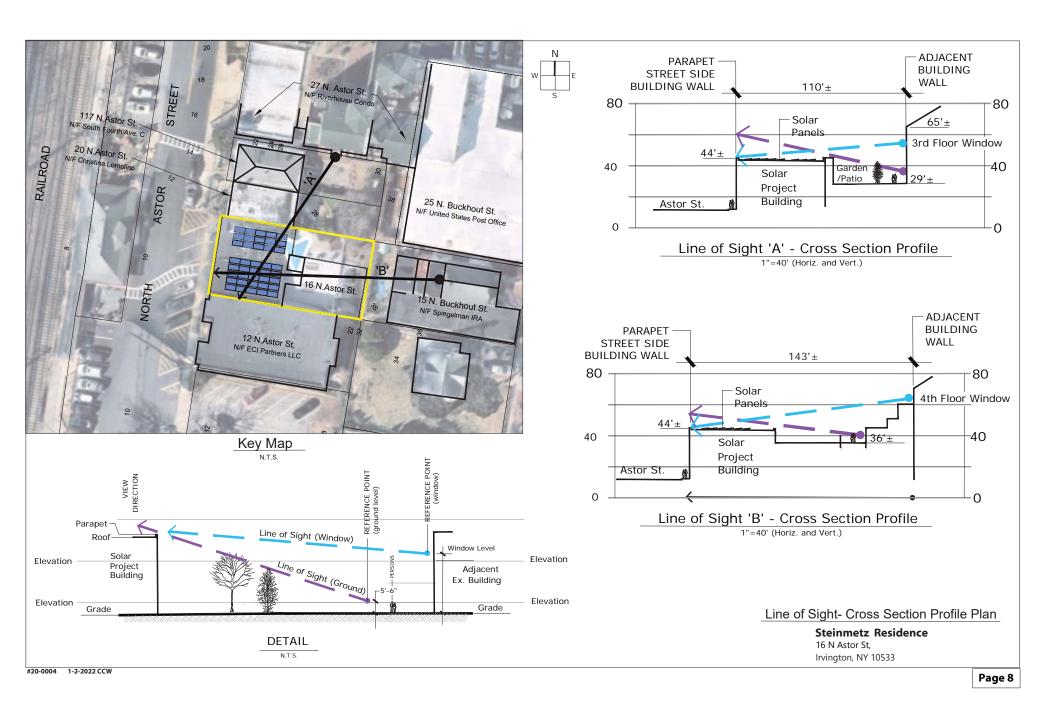


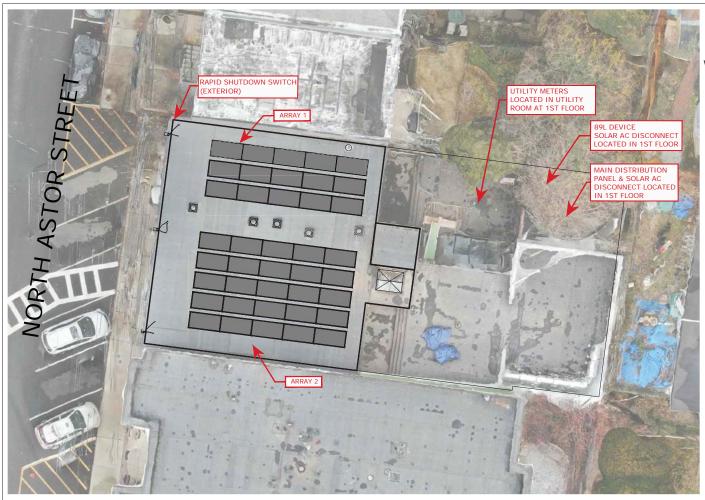


**AERIAL PHOTO OF TREE COVERAGE** 

N.T.S.

#20-0004 12/31/2021 TO Page 7









### General Notes

- Modules to be Longi 450 DC Module, to installed per Longi Solar Technology Company Installation Manual.
- 2. Inverters to be SE7600H-US to be installed per SolarEdge installtion Manual.
- 3. Racking to be Unirac GridFlex 5°, to be installed by Manufacturer's Specifications.
- 4. Battery Back-Up to be SolarEdge.

### Wind and Snow Load:

Wind Speed: 120 m.p.h. Snow Load: 30 p.s.f.

### Design Notes:

Design complies with NYS Building Code, IBC-2020, NFPA-70-14 and NEC 2017.

nauthorized alteration or addition to a document prepared by a licensed Professional ngineer is a violation of Section 7209, Sub-Division 2 of the New York State Education Lav



### Site Plan

### **Steinmetz Residence**

16 North Astor Street, Irvington, New York 10533

Sect. 2.40, Block 12, Lot 4

DATE	VER.	BY	CHKD.	REMARKS
12/30/21	V1	MMS		
JOB #20-0	004	-		

### SYSTEM DESCRIPTION:

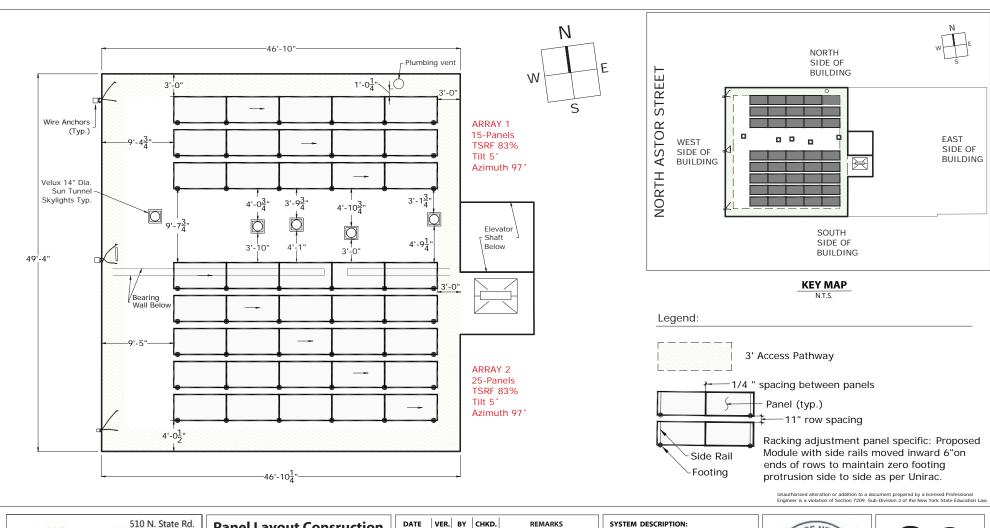
-40 Photovoltaic Panels -Longi 450W Residential DC Modules -System size -18.00 kW DC SYSTEM -15.2 kW AC

Array 1 -Azimuth: 97° -Tilt: 5° Array 2 -Azimuth: 97° -Tilt: 5°



**S-1** 

SITE PLAN





### **Panel Layout Consruction**

### **Steinmetz Residence**

16 North Astor Street, Irvington, New York 10533

Sect. 2.40, Block 12, Lot 4

Ш	DATE	VER.	BY	CHKD.	REMARKS				
╽	12/30/21	V1	MMS						
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	JOB #20-0004								

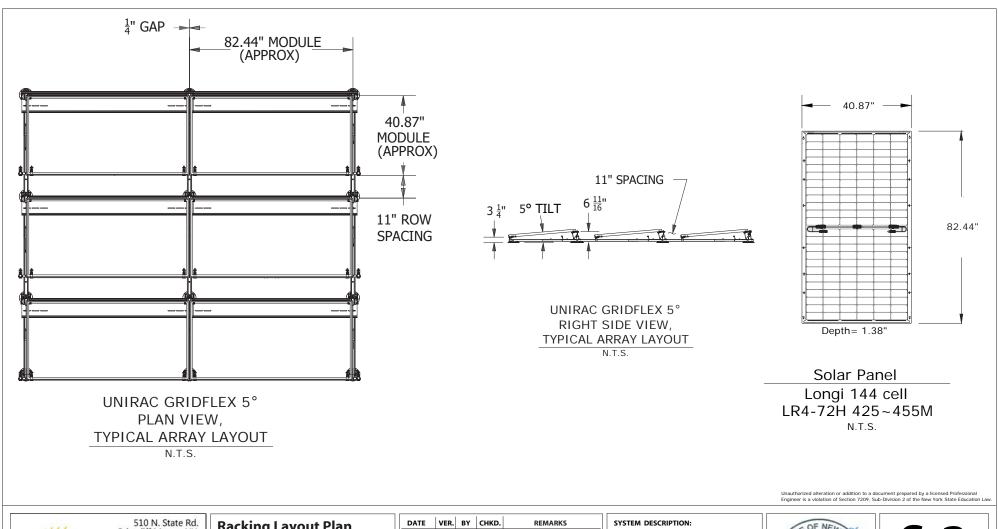
-40 Photovoltaic Panels -Longi 450W Residential DC Modules -System size -18.00 kW DC SYSTEM -15.2 kW AC

Array 1 -Azimuth: 97° -Tilt: 5°

Array 2 -Azimuth: 97° -Tilt: 5°



**PANEL LAYOUT** CONSTRUCTION **PLAN** 





Racking Layout Plan					
Steinmetz Residence					
16 North Astor Street,					
Irvington, New York 10533					

Sect. 2.40 , Block 12 , Lot 4

	DATE	VER.	BY	CHKD.	REMARKS				
	12/30/21	V1	MMS						
ı									
ı									
ı									
	JOB #20-0004								

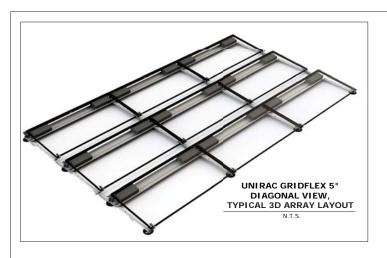
-40 Photovoltaic Panels -Longi 450W Residential DC Modules -System size -18.00 kW DC SYSTEM -15.2 kW AC

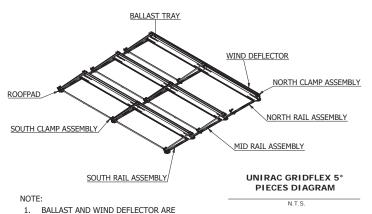
Array 1 -Azimuth: 97° -Tilt: 5° Array 2 -Azimuth: 97° -Tilt: 5°

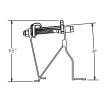


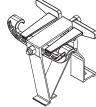
**S-3** 

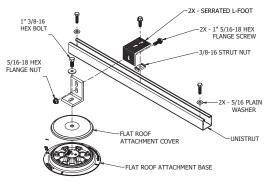
RACKING LAYOUT PLAN



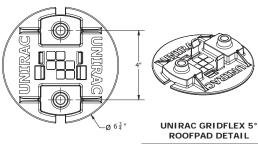








**UNIRAC GRIDFLEX 5°** MID-RAIL ASSEMBLY DETAIL

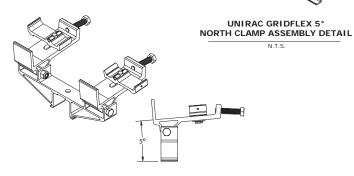


ROOFPAD DETAIL

TO BE DETERMINED BY THE ENGINEER.

1. ROOFPADS MAY BE STACKED (UP TO 4) TO ACCOMODATE ROOF UNDILATIONS.

ROOFPAD STACKING NOT ALLOWED ON SOUTH END OF THE ARRAY.



**UNIRAC GRIDFLEX 5°** SOUTH CLAMP ASSEMBLY DETAIL

Unauthorized alteration or addition to a document prepared by a licensed Professional Engineer is a violation of Section 7209, Sub-Division 2 of the New York State Education Law



### **Racking Detail Plan**

### **Steinmetz Residence**

16 North Astor Street, Irvington, New York 10533

Sect. 2.40, Block 12, Lot 4

	DATE	VER.	BY	CHKD.	REMARKS
╛	12/30/21	V1	MMS		
	JOB #20-0	004			

### SYSTEM DESCRIPTION:

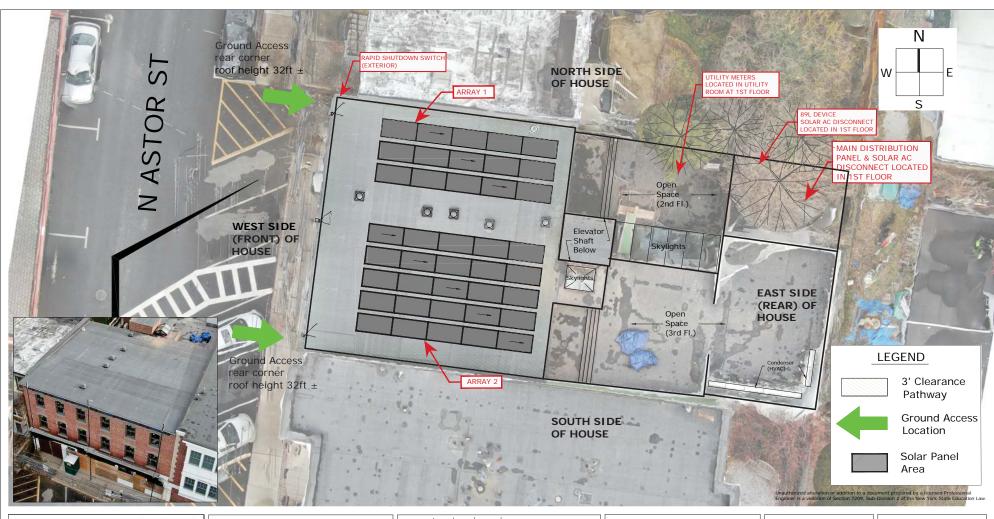
-40 Photovoltaic Panels -Longi 450W Residential DC Modules -System size -18.00 kW DC SYSTEM -15.2 kW AC

Array 1 -Azimuth: 97° -Tilt: 5°

Array 2 -Azimuth: 97° -Tilt: 5°



**RACKING DETAIL PLAN** 





### **Roof Access Plan**

### Steinmetz Residence

16 North Astor Street, Irvington, New York 10533

Sect. 2.40, Block 12, Lot 4

DATE	VER.	BY	CHKD.	REMARKS
12/30/21	V1	MMS		
JOB #20-0	004			

### SYSTEM DESCRIPTION:

-40 Photovoltaic Panels -Longi 450W Residential DC Modules -System size -18.00 kW DC SYSTEM -15.2 kW AC

Array 1 -Azimuth: 97° -Tilt: 5° Array 2 -Azimuth: 97° -Tilt: 5°



**S-5** 

ROOF ACCESS PLAN

