APPLICATION FOR BUILDING PERMIT

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

Application Number:	437	Date:	02/06/2023
Job Location:	2 HERITAGE HILL RD	Parcel ID:	2.111-59-49
Property Owner:	Charlotte Binns	Property Class:	1 FAMILY RES
Occupancy:	One/ Two Family	Zoning:	
Common Name:	4 HERITAGE HILL RD		

Applicant	Contractor
Janet E. Glover	Janet E. Glover
Green Hybrid Energy Solutions Inc.	Green Hybrid Energy Solutions Inc.
156 Woodbrook RoadWhite Plains NY 10605	11 Washington Place East White Plains NY 106
	03
914-299-9552	9142999552

Description of Work

Type of Work:	Solar Panels	Applicant is:	Agent
Work Requested by:	The Owner	In association with:	
Cost of Work (Est.):	45650.00	Property Class:	1 FAMILY RES

Description of Work

Installation of a 22,08KW DC (17.6KW AC) solar photvoltaic system on the roof. The system will consist of 46 Hanwha 485w panels, and 2 SolarEdge inverters. 1 10KW (SE10000H-US) and one 7.6KW (SE7600H-US) on a racking 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.

Job Location: 2 HERITAGE HILL RD Parcel ld: 2.111-59-49

AFFIDAVIT OF APPLICANT

I Janet E. G with offices a	Blover being duly sworn, depose at: 156 Woodbrook Road White	e and says: That s/he does business and says: That s/he does business and that s/he is:	as: Green Hybrid Energy Solutions inc
☐ The	owner of the property described	herein. of the New York Corporation	with offices at:
		duly authorized by reso	plution of the Board of Directors, and that
said	corporation is duly authorized b	by the owner to make this application.	
☐ A ge	eneral partner of	with offices	and that said
The The	Lessee of the premises, duly au	e Owner to make this application. uthorized by the owner to make this a prized by the owner to make this appli ner to make this application.	application. lication.
knowled Uniform	dge and belief. The undersigned Fire Prevention and Building Co	ode, the Village of Irvington Building (tion applied for, whether or not show)	drawings is true to the best of his requirements of the New York State Code, Zoning Ordinance and all other on plans or specify in this application.
Sworn	to before me this	_day of <u>Februar</u> of 2023	Jant & Blove
•	Public / Commission of Deeds	DANIEL J. DONOHUE NOTARY PUBLIC, State of New York No. 01DO4731804 Qualified in Westchester County Commission Expires Feb. 28, 20 2	Applicant's Signature
l Charlotte			contractor named above to perform the
Owner	phone number	Owner email address	
to e	ensure that if the permit (if issued her that if a Final Certificate of A	I hereby acknowledge that it is	my responsibility as the property owne oval from the Building Department and tion of the construction, a property
Sw	orn to before me this	day of of	
Not	ary Public / Commission of Deed	ds	Applicant's Signature
N	DANIEL J. DONOHUE OTARY PUBLIC, State of New York		

DANIEL J. DONOHUE
NOTARY PUBLIC, State of New York
No. 01D04731804
Qualified in Westchester County
Commission Expires Feb. 28, 20

VILLAGE OF IRVINGTON

BUILDING DEPARTMENT
85 MAIN STREET
IRVINGTON, NEW YORK 10533
TEL: (914) 591-8335 • FAX: (914) 591-5870
WWW.IRVINGTONNY.GOV

Arlene Burgos
Notary Public, State of New York
No. 02BU6385280
Qualified in Westchester County
Certificate Filed in New York County
My Commission Expires December 31,



Proxy Statement

Charlotte Binns	is the owner of the proper
located at 2 Heritage Hill Road, Irvington, NY 10533	and has authorized
Green Hybrid Energy Solutions, Inc Janet E. Glover to ma	ake the attached building permi
application for Solar photovoltaic system installation.	
03	
9	
Signature of Owner	
NOTARY:	
Sworn to before me	
his 22 day of November, 2022	
Notary Public:	

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 www.irvingtonny.gov) prior to submission).
- 7. Visit the Village of Irvington website www.irvingtonny.gov 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):

- 10				
FA	2 50	he	du	0

Building Permit (Non-Refundable)

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

· 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.)

VILLAGE OF IRVINGTON

BUILDING DEPARTMENT

85 Main Street Irvington, New York 10533

Tel: (914) 591-8335 • Fax: (914) 591-5870



PHOTOVOLTAIC (PV SOLAR) RESIDENTIAL SYSTEMS PERMIT APPLICATION CHECK LIST

Revised June 7, 2017

It is suggested that all applicants applying for a permit read and understand the manufacture installation instructions prior to applying for a building permit and attached ARB guide lines and Village code for Solar Energy Equipment.

DEO	NUDEMENTS TO ADDITY FOR A DUOTOVOLTAIC ON SOLAD) SYSTEM DEDMIT
	QUIREMENTS TO APPLY FOR A PHOTOVOLTAIC (PV SOLAR) SYSTEM PERMIT
X	1) Apply on line at www.irvingtonny.gov for a mechanical permit, under building permits and along with your
	application, submit to the building department the following;
	_2) Owners phone number and email address entered in the online permit application
	_3) Evidence of Workers Compensation Insurance (on a C-105 or equivalent)
	_4) Evidence of Liability Insurance naming the Village of Irvington additional insured
	_5) A copy of the contractors Westchester County Department of Consumer Protection License
X	_6) Pursuant to 9-12-A. provide evidence of notice to adjacent properties owners not less than 10 days prior to the meeting (see attached code section for more details)
	7) Submit permit fee: (all fees must be paid at time of submission)
	\$85 application fee
	\$200 for systems up to 5 kilowatts
	\$450 for systems above 5 kilowatts and less than 10 kilowatts
	\$700 for systems above 10 kilowatts and less than 20 kilowatts
	\$700 plus \$250 per additional 10 kilowatts above 20 for systems above 20 kilowatts
	\$75 Certificate of Completion inspection and fee
_X	8) An affidavit from a NYS licensed professional detailing and certifying that the existing structure meets or exceeds the
	minimum load requirement's as per TABLE R301.2(1) for wind and load before and after installation of the proposed
	equipment or the proposed upgrades to the existing structure to accomplish the aforesaid.
_X	9) Drawings (signed and sealed by a NYS licensed professional) of the roof plan showing the following criteria;
	ax_ Showing all proposed PV panels on all proposed roof surfaces.
	bx_ Showing all equipment on all elevations including
	cx_ Show / list all roof connectors and flashing details
	dx_ Show compliance with section R902.4 (fire classification in accordance with UL1703 and 3' from any lot line)
	e. X Show compliance with sections R324.3.1 through R324.7.2.5 and NFPA 70 (installation)
	fx Show compliance with section R324.7 (access and pathways) (see attachment)
	g. x Show compliance with section R324.7.2.1-6. (roof access points) (see attachment)
	h. X Show compliance with section R324.7.3 (ground access areas) (see attachment)
	i. X Show compliance with section R324.7.4 (single ridge roofs when applicable) (see attachment)
	jx_ Show compliance with section R324.7.5 (hip roofs when applicable) (see attachment)
	k. x Show compliance with section R324.7.6 (roof with valleys when applicable) (see attachment)
	1x Show compliance with section R324.7.7 (allowance for smoke ventilation operations) (see attachment)
	m. x Show a Fire Department AC disconnect, located outside by the Utility meter on all systems.
X	_ 10) Provide a drawing or manufactures cut sheets of array mounting hardware and interconnection diagram and specifications
×	11) Provide a drawing or manufactures cut sheets of the unit mount and roof penetration's flashing system.
×	12) 3 wire diagram showing all proposed equipment as governed by the National Electrical Code (NEC)
×	13) Provide a diagram showing all proposed labels and labeling locations including; Solar AC Disconnect, Inverter Output,
io strany	Connection Warning, Duel Power Source Warning, Solar AC Combiner Panel, Solar PV Circuits Only, Solar Production
	meter. (see attachment)
×	14) Provide snow guards on panels were snow has the potential of sliding of the panel into a neighbor's property
	15) Pictures of dwelling showing photo shopped arrays on the structure.
	16) Provide a drawing or photo shop picture of all proposed equipment on all effected elevations (including FD emergency
	disconnect switch)
×	17) A Fire Department AC disconnect, located outside by the Utility meter on all systems.



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

PART 1. To be completed by NYS disability and Paid Family Le	eave benefits carrier or licensed insurance agent of that carrier				
1a. Legal Name & Address of Insured (use street address only) GREEN HYBRID ENERGY SOLUTIONS INC	1b. Business Telephone Number of Insured 914-299-9552				
11 WASHINGTON PLACE-EAST WHITE PLAINS, NY 10603	4. Endard Englaver Identification Number of Income				
	Federal Employer Identification Number of Insured or Social Security Number				
Work Location of Insured (Only required if coverage is specifically limited to certain locations in New York State, i.e., Wrap-Up Policy)	272994933				
Name and Address of Entity Requesting Proof of Coverage (Entity Being Listed as the Certificate Holder)	3a. Name of Insurance Carrier				
Village of Irvington	ShelterPoint Life Insurance Company				
Building Department	3b. Policy Number of Entity Listed in Box "1a"				
85 Main Streetl	DBL355470				
Irvington, NY 10533	3c. Policy effective period				
	03/15/2022 to03/14/2024				
 4. Policy provides the following benefits: A. Both disability and paid family leave benefits. B. Disability benefits only. C. Paid family leave benefits only. 5. Policy covers: A. All of the employer's employees eligible under the NYS Disability and Paid Family Leave Benefits Law. B. Only the following class or classes of employer's employees: 					
Under penalty of perjury, I certify that I am an authorized representative or I 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 12/16/2022 By	anled O. Vinte				
	carrier's authorized representative or NYS Licensed Insurance Agent of that insurance carrier)				
Telephone Number 516-829-8100 Name and Title R	ichard White, Chief Executive Officer				
IMPORTANT: If Boxes 4A and 5A are checked, and this form is significance Agent of that carrier, this certificance.	gned by the insurance carrier's authorized representative or NYS cate is COMPLETE. Mail it directly to the certificate holder.				
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' Compen NYS Disability and Paid Family Leave Benefits Law(Article 9 of the	Workers' Compensation Law) with respect to all of their employees.				
	Signature of Authorized NYS Workers' Compensation Board Employee)				

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)



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 12/16/2022

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.

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

lf	IPORTANT: If the certificate holder is a SUBROGATION IS WAIVED, subject to is certificate does not confer rights to	the	terms	and conditions of the po	licy, ce	rtain policies					
	DUCER	uie c	erun	cate floider in fled of such	CONTA	. ,	os				
	CInsurance Agency				PHONE (A/C, No		04<500		FAX	(914) 9	937-1124
90 S Ridge St Ste UL-2					(A/C, No E-MAIL ADDRE	ss. jandros@l	oncagency.cor	n	(A/C, No):	(01-1)	307 TTE-1
					ADDRE		SURER(S) AFFOR	RDING COVERAGE			NAIC#
Rye	Brook			NY 10573-2836	INSURE	04		eneral Ins Compar	ny		12294
INSU	RED				INSURE	RB:					
	Green Hybrid Energy Solutions	Inc.			INSURE						
	11 Washington Place East				INSURE	RD:					
					INSURE	RE:					
	White Plains			NY 10603	INSURE	RF:					
				NUMBER: CL222170484				REVISION NUM			
IN CI E)	HIS IS TO CERTIFY THAT THE POLICIES OF I DICATED. NOTWITHSTANDING ANY REQUI ERTIFICATE MAY BE ISSUED OR MAY PERTA (CLUSIONS AND CONDITIONS OF SUCH PO	REME AIN, TI LICIE	NT, TE	ERM OR CONDITION OF ANY BURANCE AFFORDED BY THE ITS SHOWN MAY HAVE BEEN	CONTRA E POLIC	ACT OR OTHER IES DESCRIBEI	DOCUMENT \ DHEREIN IS S	WITH RESPECT TO	O WHICH T	HIS	
INSR LTR	TYPE OF INSURANCE		WVD	POLICY NUMBER		(MM/DD/YYYY)	(MM/DD/YYYY)		LIMIT	4.00	
	COMMERCIAL GENERAL LIABILITY							EACH OCCURRENCE DAMAGE TO RENTE		100	0,000
	CLAIMS-MADE OCCUR Contractual Liability							PREMISES (Ea occu	urrence)	φ F 00	1
Α	Contractual Liability	Y		PK202100020645		02/22/2022	02/22/2023	MED EXP (Any one		4.00	
, ,		'		1 17202100020040		02/22/2022	OZ/ZZ/ZOZO	PERSONAL & ADV I		\$ 1,000,000	
	GEN'L AGGREGATE LIMIT APPLIES PER: POLICY PRO- JECT LOC							GENERAL AGGREG		Φ.	0,000
	POLICY JECT LOC OTHER:							PRODUCTS - COMF		\$ 1,00	6
	AUTOMOBILE LIABILITY							GOMBINED SINGLE (Ea accident)	FIWM.	\$	***************************************
	ANYAUTO							BODILY INJURY (Pe	er person)	\$	
	OWNED SCHEDULED AUTOS ONLY AUTOS							BODILY INJURY (Pe	er accident)	\$	
	HIRED NON-OWNED AUTOS ONLY							PROPERTY DAMAG (Per accident)	E	\$	
										\$	
	UMBRELLA LIAB X OCCUR							EACH OCCURRENC	CE	\$ 5,00	0,000
Α	EXCESS LIAB CLAIMS-MADE			EX202100001784		02/22/2022	02/22/2023	AGGREGATE		\$ 5,00	0,000
	DED RETENTION \$ 10,000									\$	
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY Y/N							PER STATUTE	OTH- ER		
	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED?	N/A						E.L. EACH ACCIDEN	VT	\$	
	(Mandatory in NH) If yes, describe under							E.L. DISEASE - EA E	EMPLOYEE	\$	
	DÉSCRIPTION OF OPERATIONS below							E.L. DISEASE - POL Limit	ICY LIMIT	\$ \$200	0,000/200,000
Α	Installation Floater Coverage/			PK202100020645		02/22/2022	02/22/2023	Deductible		\$2,5	
, ,	Rented or Leased Equipment			1 1 1 1 2 0 2 1 0 0 0 2 0 0 4 0		02/22/2022	02/22/2020	Beddelible		Ψ2,0	
	CRIPTION OF OPERATIONS / LOCATIONS / VEHICLE ge of Irvington Building Department is included	0.50			100	-		nt.			
CEF	RTIFICATE HOLDER				CANC	ELLATION					
	Village of Irvington Building Department				ACC	EXPIRATION D CORDANCE WIT	ATE THEREOF	SCRIBED POLICIE F, NOTICE WILL BI Y PROVISIONS.			O BEFORE
	85 Main Street				AUTHO	RIZED REPRESEN	ITATIVE				
	Irvington			NY 10533			Re	m Some	_		

© 1988-2015 ACORD CORPORATION. All rights reserved.



CERTIFICATE OF NYS WORKERS' COMPENSATION INSURANCE COVERAGE

1a. Legal Name & Address of Insured (use street address only)	1b. Business Telephone Number of Insured (914)949-4900
Green Hybrid Energy Solutions Inc. 11 Washington Place E White Plains, NY 10603	1c. NYS Unemployment Insurance Employer Registration Number of Insured
Work Location of Insured (Only required if coverage is specifically limited to certain locations in New York State, i.e., a Wrap-Up Policy)	1d. Federal Employer Identification Number of Insured or Social Security Number 27-2994933
Name and Address of Entity Requesting Proof of Coverage (Entity Being Listed as the Certificate Holder)	3a. Name of Insurance Carrier New Jersey Manufacturers Insurance Company
Village of Irvington Building Department 85 Main Street	3b. Policy Number of Entity Listed in Box "1a" W43404-3-22
Irvington, NY 10533	3c. Policy effective period 7/31/2022 to 7/31/2023
	3d. The Proprietor, Partners or Executive Officers are included. (Only check box if all partners/officers included) all excluded or certain partners/officers excluded.

This certifies that the insurance carrier indicated above in box "3" insures the business referenced above in box "1a" for workers' compensation under the New York State Workers' Compensation Law. (To use this form, New York (NY) must be listed under Item 3A on the INFORMATION PAGE of the workers' compensation insurance policy). The Insurance Carrier or its licensed agent will send this Certificate of Insurance to the entity listed above 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 canceled 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 the 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 Workers' Compensation contract of insurance only while the underlying policy is in effect.

Please Note: Upon cancellation of the workers' compensation 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 Workers' Compensation Coverage or other authorized proof that the business is complying with the mandatory coverage requirements of the New York State Workers' Compensation Law.

Under penalty of perjury, I certify that I am an authorized representative or licensed agent of the insurance carrier referenced above and that the named insured has the coverage as depicted on this form.

Approved by: Raveena Malhotra

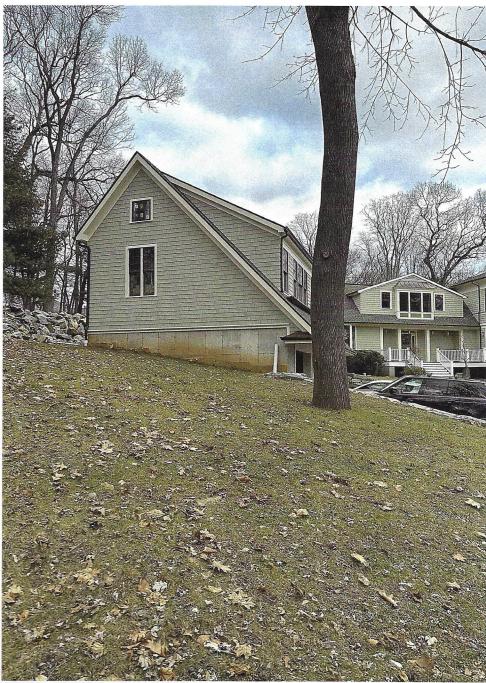
Approved by: Raveens Mallotia	
5755D2A60010404 (Signature)	(Date)
Title: Insurance Broker	
ne Number of authorized representative or licensed age	ent of insurance carrier: 856-552-3013

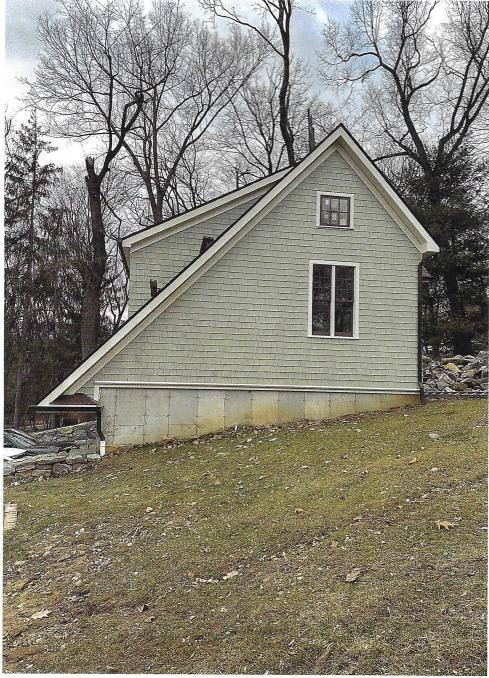
Please Note: Only insurance carriers and their licensed agents are authorized to issue Form C-105.2. Insurance brokers are NOT authorized to issue it.

C-105.2 (9-17) www.wcb.ny.gov



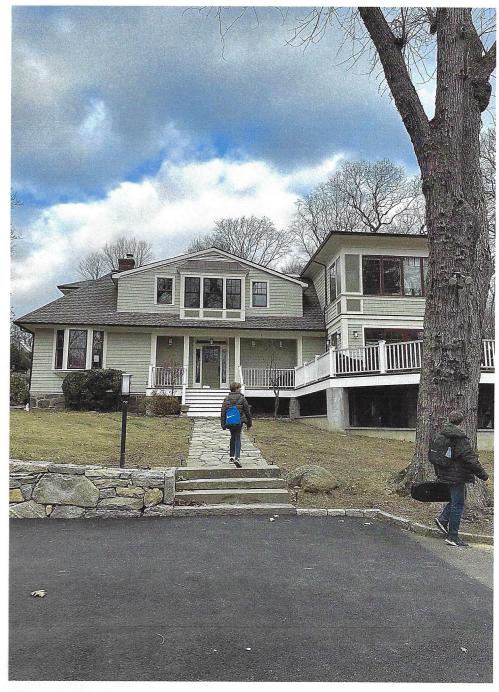


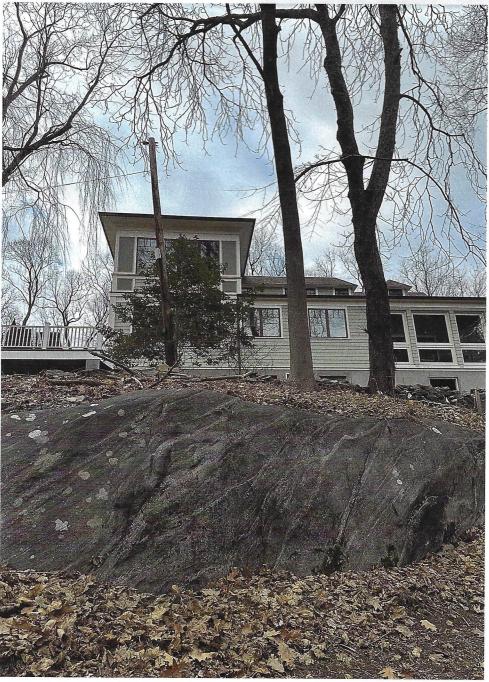


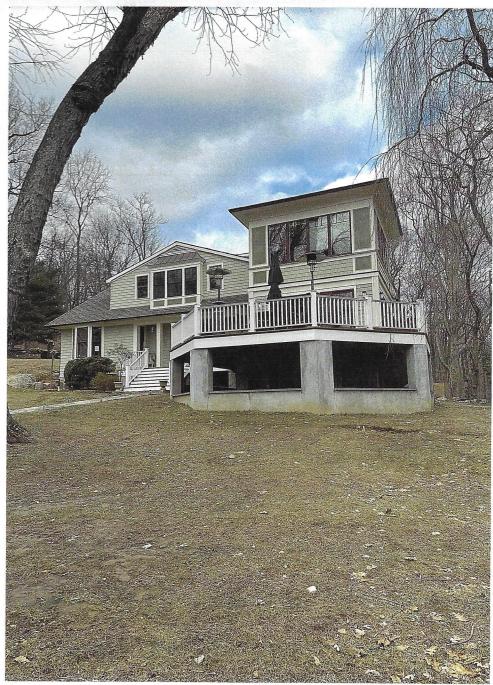


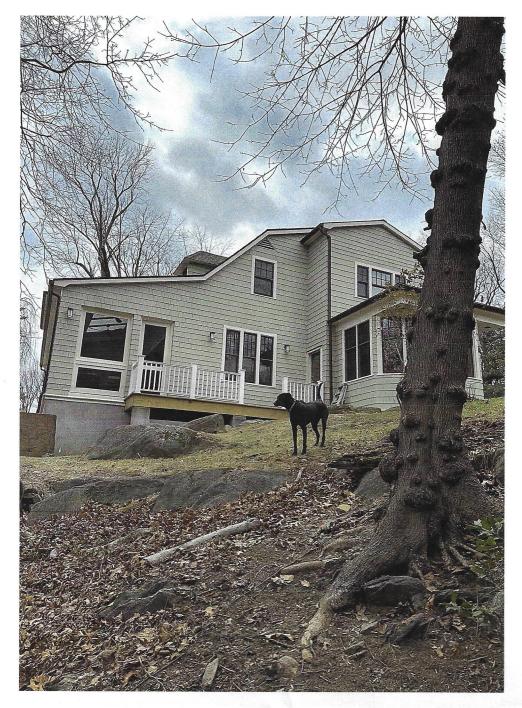




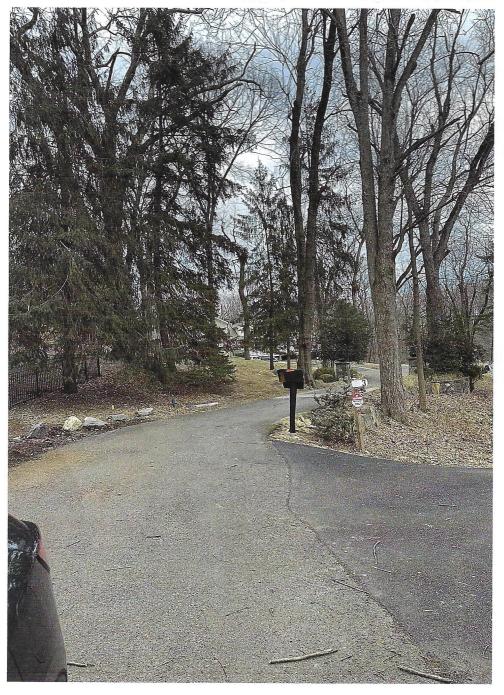


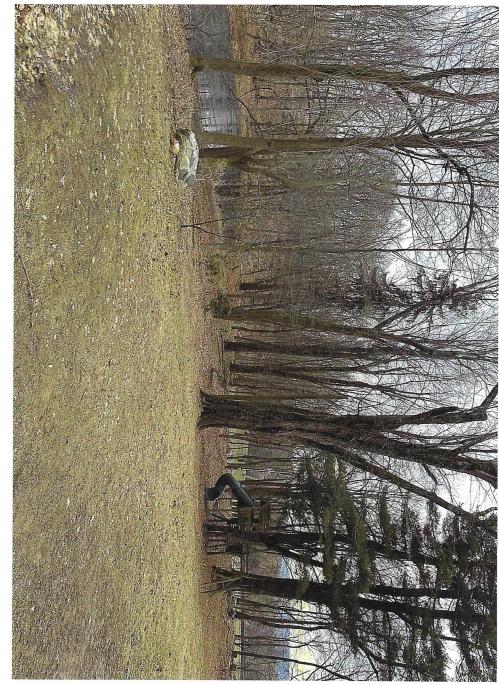
















NOTICE OF APPLICATION AND HEARING

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

CERTIFIED MAIL

Date of Mailing January 24, 2023

NOTICE:

Pursuant to 9-12 of the code of the Village of Irvington notice to adjacent neighbors (as defined below) is required 10 days prior a meeting where an application for Solar Panels to the Village of Irvington Architectural Board is asking to be heard.

February 27, 2023 Date of Meeting: Time of Meeting: Meeting starts at 8pm Location of Meeting: Trustees Meeting Room

85 Main St. Irvington, NY 10533

Applicant Name **Applicant Mailing Address** Janet E. Glover 11 Washington Place E. White Plains, NY 10603 Owners Name Owner Mailing Address Charlotte & David Binns 2 Heritage Hill Road Irvington, NY 10533 (917) 402-8447 charlottebinns@gmail.com

Applicant Phone Number **Applicant Email Address**

(914) 299-9552 eglover@ghessolar.com Owners Phone Number Owners Email Address

Address of Proposed Solar Panels:

Street Address 2 Heritage Hill Road Irvington, NY 10533

To Adjacent Neighbors of: Daniel Antonelli

27 Dearman, Irvington, NY 10533

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.

SolarEnergyEquipment.

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.)





U.S. Postal Service™ CERTIFIED MAIL RECEIPT (Domestic Mail Only; No Insurance Coverage Provided) m For delivery information visit our website at w D Irvinaton, NY 10538 П 0 TI Postage \$5 \$0.00 Certified Fee 40.00 Postmark Here Return Receipt Fee (Endorsement Required) \$0.00 \$0.00 Restricted Delivery Fee (Endorsement Required) Ŋ LI LI Total Postage & Fees \$ m Antonell Daniel Street, Apt. No.; or PO Box No. City, State, ZIP-10533 Tryington NY See Reverse for Instructions





December 19, 2022

Village of Irvington Building Department 85 Main Street Irvington, NY 10533

Re:2 Heritage Hill Road Irvington, NY 10533

To Whom it May Concern,

The existing roof structure of the above captioned property which is constructed of 2"X 10" wood rafters 16" oc with 2" x 10" collar ties every rafter with 3/4" plywood decking and asphalt shingles will support the additional load of the solar panels of 2.49PSF under the required loads of 114 MPH wind speed, and 30PSF ground snow load without additional structural supports.

I have determined that the installation will meet the requirements of the 2020 NYS Energy Conservation Construction Code, 2020 NYS Residential Code, 2020 NYS Fire Code, NYS Existing Building Code, 2017 NEC and The Village of Irvington building codes, when installed in accordance with the manufacturer's instructions.

If you have any further questions or require addition information, feel free to contact me.

Very truly yours,



PHOTOVOLTAIC ROOF MOUNT SYSTEM

46 MODULES - SYSTEM SIZE STC (22.31 kW DC ,17.6 KW AC) 2 HERITAGE HILL RD, IRVINGTON, NY 10533, USA (41.04117°, -73.85315°)

SYSTEM SUMMARY STC (22.31 kW DC / 17.6 kW AC)

STC DC: (46) 485 = 22 31 NW

- STC AC: (1) 10000 + (1) 7600 = 17.6 xW

 (46) HANWHA G CELL G PEAK DUO XL-G10.4 BFG/485 MODULES
- (1) SOLAREDGE SE10000H-US ENERGY HUB (240) INVERTERS
- (1) STOREDGE SE7600H-US ENERGY HUB INVERTERS
- . 2x STRINGS OF 10 CONNECTED IN SERIES

2x STRINGS OF 13 CONNECTED IN SERIES GOVERNING CODES:

ALL WORK SHALL CONFORM TO THE FOLLOWING CODES

- 2020 RESIDENTIAL CODE OF NEW YORK STATE
- 2020 BUILDING CODE OF NEW YORK STATE 2020 ENERGY CONSERVATION CONSTRUCTION CODE
- 2020 FIRE CODE OF NEW YORK STATE
- 2017 NATIONAL ELECTRICAL CODE
- 2020 FUEL CODE OF NEW YORK STATE

- GENERAL NOTES

 1) ALL PANELS, SWITCHES, ETC. SHALL HAVE SUFFICIENT GUTTER SPACE AND LUGS IN COMPLIANCE WITH UL REQUIREMENTS TO ACCOMMODATE CONDUCTORS SHOWN.
- THIS SYSTEM WILL NOT BE INTERCONNECTED UNTIL APPROVAL FROM THE LOCAL JURISDICTION AND UTILITY IS OBTAINED.
 ALL EXTERIOR ELECTRICAL DEVICES AND EQUIPMENT INCLUDING THOSE
- THAT ARE EXPOSED TO OUTSIDE ENVIRONMENT SHALL BE WEATHER PROOF AND SHALL BE LISTED BY 'UL' FOR THE TYPE OF APPLICATION AND 'UL' LABEL SHALL APPEAR ON ALL ELECTRICAL EQUIPMENT
- WIRING METHOD SHALL BE EMT ABOVE GROUND MOUNTED IN CONCEALED SPACES (UNLESS APPROVED OTHERWISE) AND SCHEDULE-40 PVC FOR BELOW GROUND INSTALLATIONS UNLESS NOTED OTHERWISE.
- AN OSHA APPROVED LADDER PROVIDING ACCESS TO ALL PORTIONS OF THE ARRAY SHALL BE SECURED IN PRIOR TO REQUESTING INSPECTION
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSTALL A SUPPLEMENTAL GROUNDING ELECTRODE CONDUCTOR IF NECESSARY.

ROOF ACCESS POINT

SHALL BE LOCATED IN AREAS THAT DO NOT REQUIRE THE PLACEMENT OF GROUND LADDERS OVER OPENINGS SUCH AS WINDOWS OR DOORS. AND LOCATED AT STRONG POINTS OF BUILDING CONSTRUCTION IN LOCATIONS WHERETHE ACCESS POINT DOES NOT CONFLICT WITH OVERHEAD OBSTRUCTIONS SUCH AS TREE LIMBS, WIRES OR SIGNS.

SAFETY PLAN NOTES

INSTALLERS SHALL DRAWIN DESIGNATED SAFETY AREA AROUND HOME. INSTALLERS SHALL LIPDATE NAME, ADDRESS AND PHONE NUMBER OF NEAREST URGENT CARE FACILITY RELATIVE TO THE SITE BEFORE

LOCATION OF NEAREST URGENT CARE FACILITY

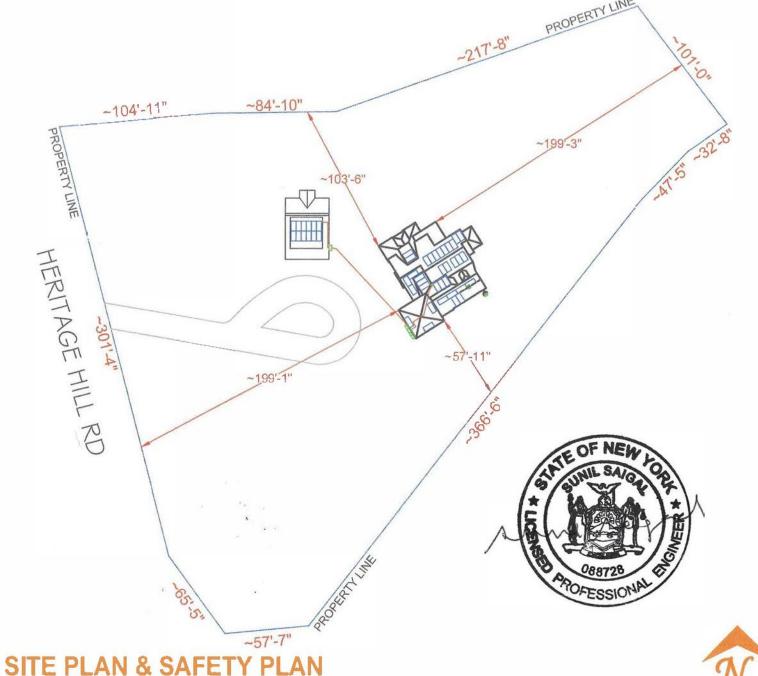
NAME:

- ADDRESS
- PHONE NUMBER



UTILITY: CONSOLIDATED EDISON CO-NY INC. ACCOUNT NUMBER: #51-1702-5430-0002-3 METER NUMBER: #005060366

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



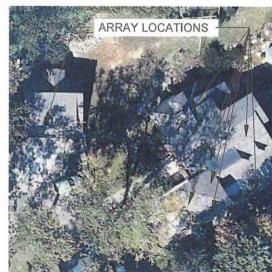


PV-1 **COVER PAGE** PV-2 **ROOF PLAN WITH MODULES** PV-3 ATTACHMENT DETAIL PV-4 SINGLE LINE DIAGRAM PV-5 WIRING CALCULATION

PV-6 **PLACARDS**

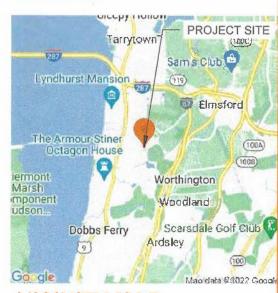
PV-7+ **EQUIPMENT SPECIFICATION**

AHJ: VILLAGE OF IRVINGTON UTILITY: CONSOLIDATED EDISON



HOUSE PHOTO

SCALE: NTS



SCALE: NTS

SOLUTIONS NO.

ADDRESS: 11 WASHINGTON PLE, WHITE

HONE: 9143467598

CONTRACTOR LICENSE # WC-24663-H11 ELECTRICAL LICENSE # 11/53

EMASL, asvolover@ghessplar.com

REVISIONS DESCRIPTION DATE

SIGNATURE & SEAL

HOMEOWNER INFO

SA BINN RD, HILL 1 Ш 2 HERITAGE I CHARLO

APN: 55260021115949

SHEET NAME

COVER PAGE

SHEET SIZE ANSI B 11" X 17"

SHEET NUMBER



MODULE AREA & WEIGHT CALCULATIONS

PANEL TYPES (COUNT, AREA, WEIGHT):

• (46x) HANWHA Q CELL Q.PEAK DUO XL-G10.d BFG/485 (86.92" x 40.82", 58.4 LBS)

OPTIMIZER TYPES (COUNT, WEIGHT): . (46x) SOLAREDGE S500 (1.5 LBS)

ATTACHMENT COUNT: 154

MOUNTING SYSTEM WEIGHT/MODULE: 1.5 LBS TOTAL ROOF AREA: 3413 SF TOTAL ARRAY AREA: (46) 86.9" x 40.8" = 1133.41 SF TOTAL ARRAY WEIGHT: (46) 58.4 + (46) 1.5 + (46) 1.5 = 2824 LBS

WEIGHT AT EACH CONNECTION: 2824 LBS / 154 = 18.33 LBS

DISTRIBUTED LOAD: 2824 LBS / 1133.41 SF = 2.49 PSF ROOF AREA COVERED BY ARRAY: 1133 SF / 3413 SF = 33.0%

	BILL	OF MATERIALS
SOLAR PV MODULES	46	HANWHA Q CELL Q. PEAK DUO XL-G10.d BFG/485
OPTIMIZERS	46	SOLAREDGE S500
INVERTERS	01	SOLAREDGE SE7600H-US ENERGY HUB (240)
INVERTERS	01	SOLAR EDGE SE10000H-US ENERGY HUB (240)
JUNCTION BOX	01	600V, NEMA 3R RATED JBOX
LOAD CENTER	01	AC COMBINER PANEL (MIN RATING 80A)
LOAD CENTER	01	DC COMBINER PANEL
AC DISCONNECT	01	PV VISIBLE LOCKABLE LABELED DISCONNECT (100A UNFUSED 1PH 240VAC)
AC DISCONNECT	01	PV VISIBLE LÖCKABLE LABELED DISCONNECT (100A FUSED, 100A FUSES 1PH 240VAC)
	95	ROOF TECH-RT MINI
ATTACHMENTS	21	IRONRIDGE TILT LEG FOR NORTH TILT LEG
	38	IRON RIDGE TILT LEG
RAIL	30	IRONRIDGE RESOURCES - XR100
RAIL SPLICES	10	RAIL SPLICES
MID CLAMPS	52	MID CLAMP
END CLAMPS	80	END CLAMP
GROUNDING LUG	20	GROUNDING LUG

		ROOF	DESCRIPTION	TABLE		
ROOF PLANE	RAFTER SIZE	RAFTER SPACING	ATTACHMENT SPACING	MODULE	ARRAY TILT	AZIMUTH
#1	2' x 10'	16" O.C.	48" O.C.	12	23"	180"
#2	2" x 10"	16" O.C.	48" O.C.	02	O ₂	148*
#3	2" x 10"	16" O.C.	48" O.C.	09	5*	148°
#4	2" x 10"	16" O.C.	48" O.C.	05	23°	148°
#5	2" x10"	16" O.C.	48" O.C.	03	O"	148°
#6	2" x 10"	16" O.C.	48" O.C.	06	20°	148°
#7	2" x 10"	16" O.C.	48" O.C.	01	27"	148°
#8	2" x 10"	16" O.C.	48" O.C.	01	27°	238°
#9	2"x10"	16" O.C.	48" O.C.	01	27°	58°
#10	2" x 10"	16" O.C.	48" O.C.	03	23"	148"
些11	2" x117"	16" O.C.	48'OC	03	CI ⁴	148°

ROOF ACCESS POINT

SHALL BE LOCATED IN AREAS THAT DO NOT REQUIRE THE PLACEMENT OF GROUND LADDERS OVER OPENINGS SUCH AS WINDOWS OR DOORS, AND LOCATED AT STRONG POINTS OF BUILDING CONSTRUCTION IN LOCATIONS WHERETHEACCESS POINT DOES NOT CONFLICT WITH OVERHEAD OBSTRUCTIONS SUCH AS TREE LIMBS, WIRES OR SIGNS.



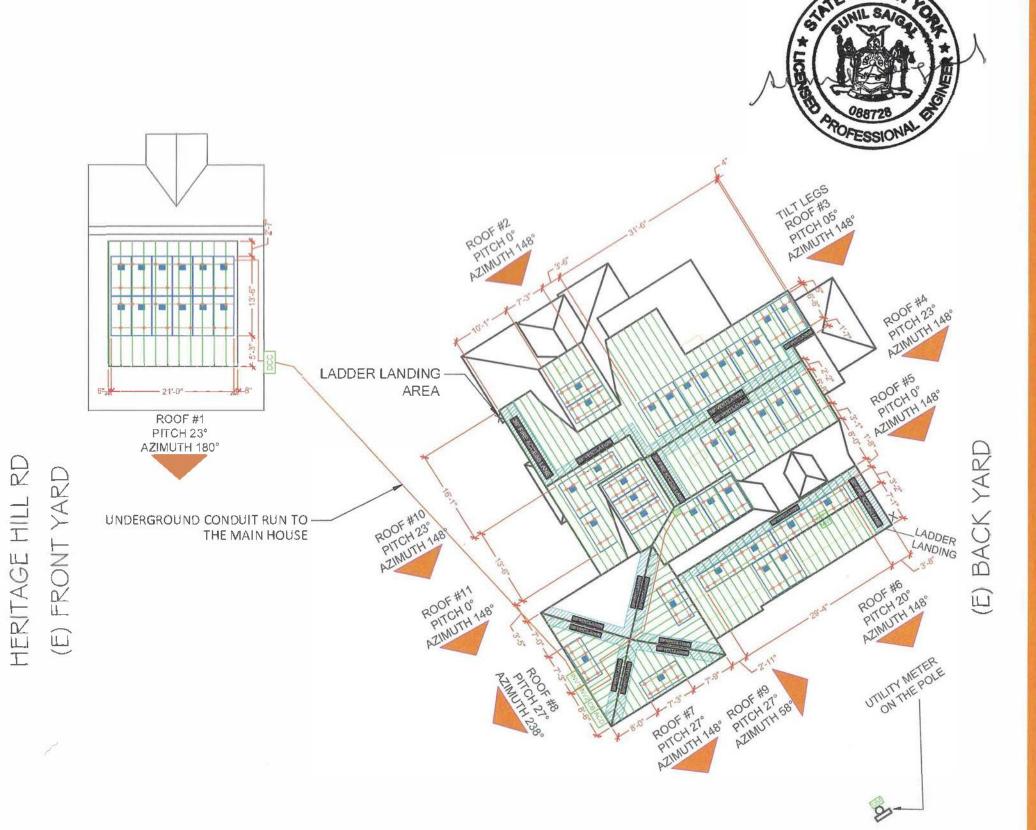
DESIGN CRITERIA

EXPOSURE CATEGORY = B WIND SPEED = 114 MPH SNOW LOAD = 30 PSF

ROOF PLAN WITH MODULES

SCALE: 1/16" = 1'

UTILITY: CONSOLIDATED EDISON CO-NY INC. ACCOUNT NUMBER: #51-1702-5430-0002-3 METER NUMBER: #005060366



CONTRACTOR

ADDRESS, 11 WASHINGTON PLE, WHITE PLAINS, NY 10603, USA

PHONE: \$143467588

CONTRACTOR LICENSE # WC-24683-H11 BLECTRICAL LICENSE # 1163

EMAIL: awgkver@ghessolar.com

REVIS	IONS	
ESCRIPTION	DATE	RE

SIGNATURE & SEAL

HOMEOWNER INFO

HILL RD, 10533, USA BINN 2 HERITAGE I CHARL

APN 55260021115949 EMAIL -

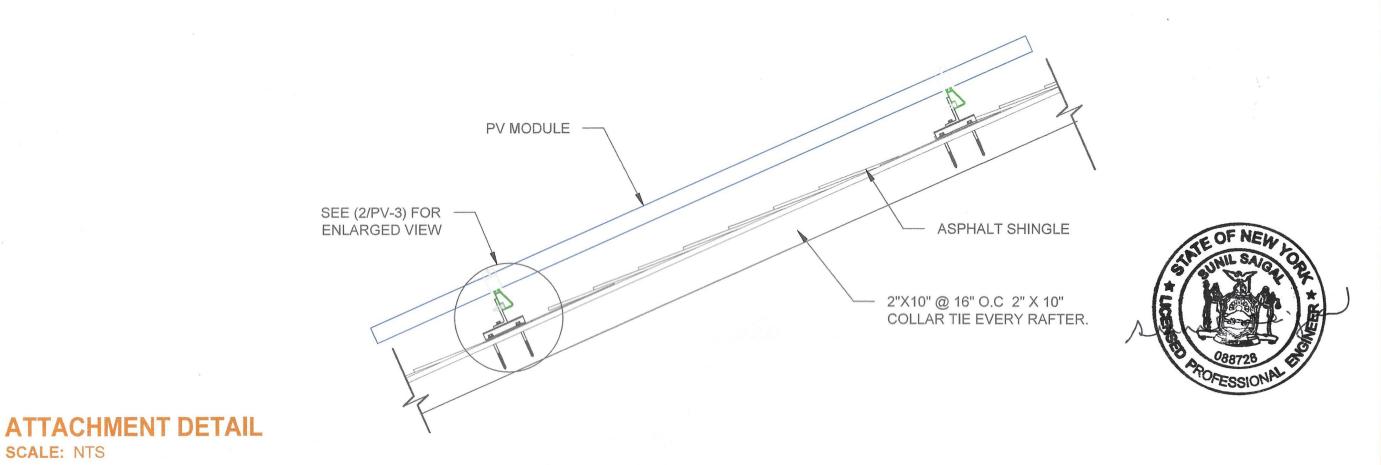
PHONE:

SHEET NAME

ROOF PLAN WITH MODULES

> SHEET SIZE ANSI B 11" X 17"

SHEET NUMBER



HOMEOWNER INFO

ADDRESS: 11 WASHINGTON PL E, WHITE PLAINS, NY 10603, USA

REVISIONS

DESCRIPTION DATE REV

SIGNATURE & SEAL

LECTRICAL LICENSE # 1163

BINNS 2 HERITAGE HILL RD, IRVINGTON, NY 10533, USA CHARLOTTE

SHEET NAME

ATTACHMENT DETAIL

SHEET SIZE ANSI B 11" X 17"

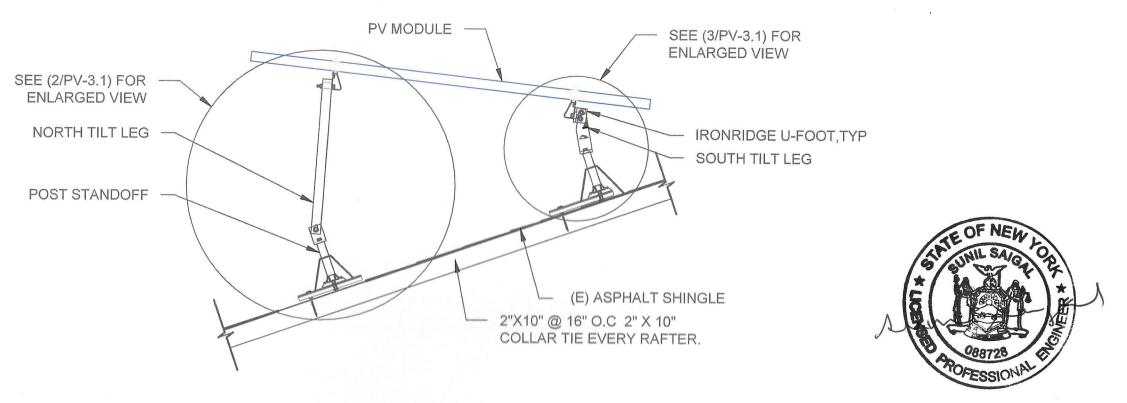
SHEET NUMBER PV-3

GROUNDING END/MID CLAMP PV MODULES **IRONRIDGE XR100 RAIL ASPHALT SHINGLE** 5/16"X3.5" SS LAG SCREW WITH MIN 21/2" THREAD PENETRATION SEALED WITH MANUFACTURER SUPPLIED SEALANT ALUMN "L" BRACKET W3/8" SS BOLT & NUT L-FOOT ROOF TECH - RT - MINI 2"X10" @ 16" O.C 2" X 10" COLLAR ATTACHMENT DETAIL (ENLARGED SECTION VIEW) TIE EVERY RAFTER.

SCALE: NTS

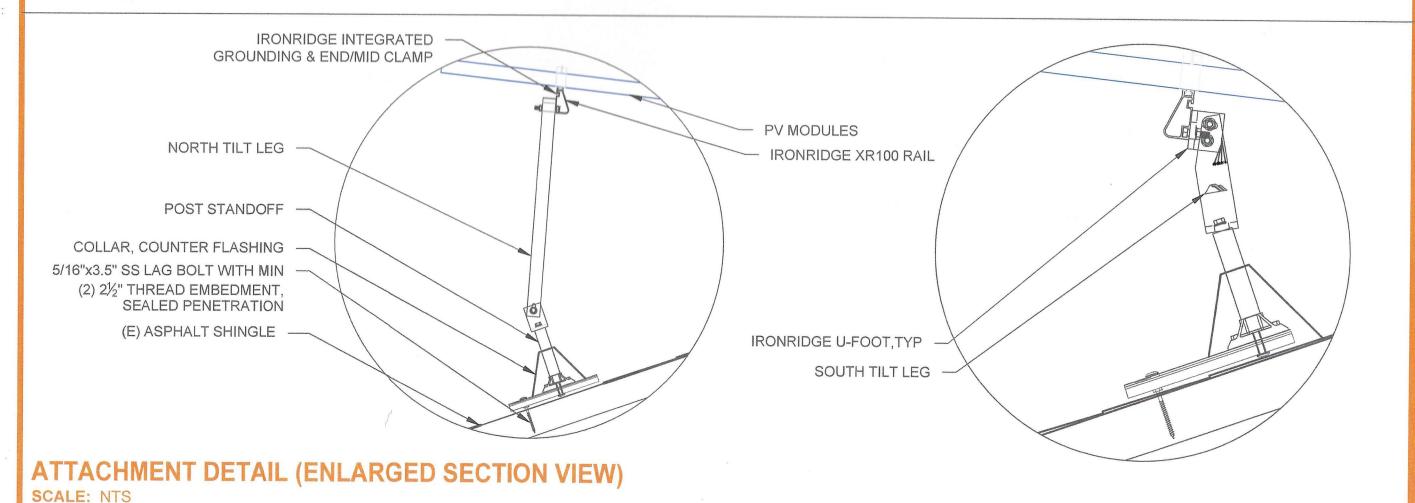
SCALE: NTS

Page 21



ATTACHMENT DETAIL

SCALE: NTS



HOMEOWNER INFO

GHES GREEN HYBRID ENERGY SOLUTION

SOLUTIONS, INC.

DESCRIPTION DATE

SIGNATURE & SEAL

CHARLOTTE BINNS
2 HERITAGE HILL RD,
IRVINGTON, NY 10533, USA

PN: 55260021115949 MAIL: -

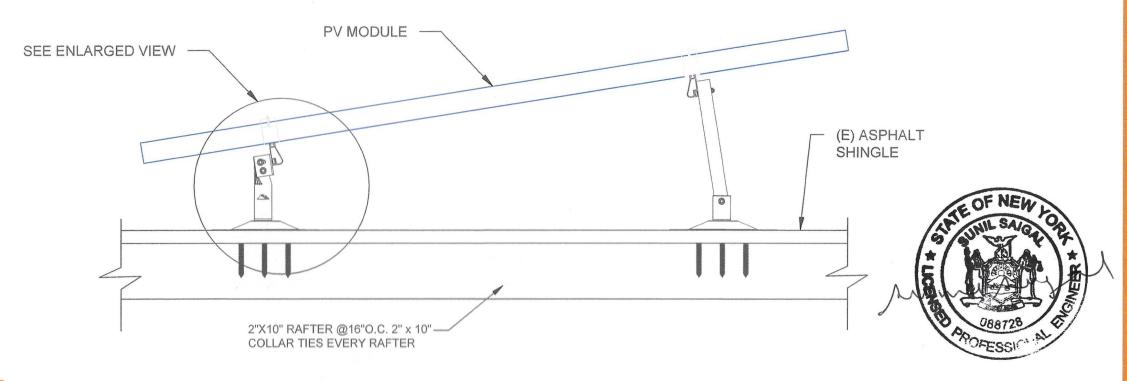
SHEET NAME

ATTACHMENT DETAIL

SHEET SIZE ANSI B 11" X 17"

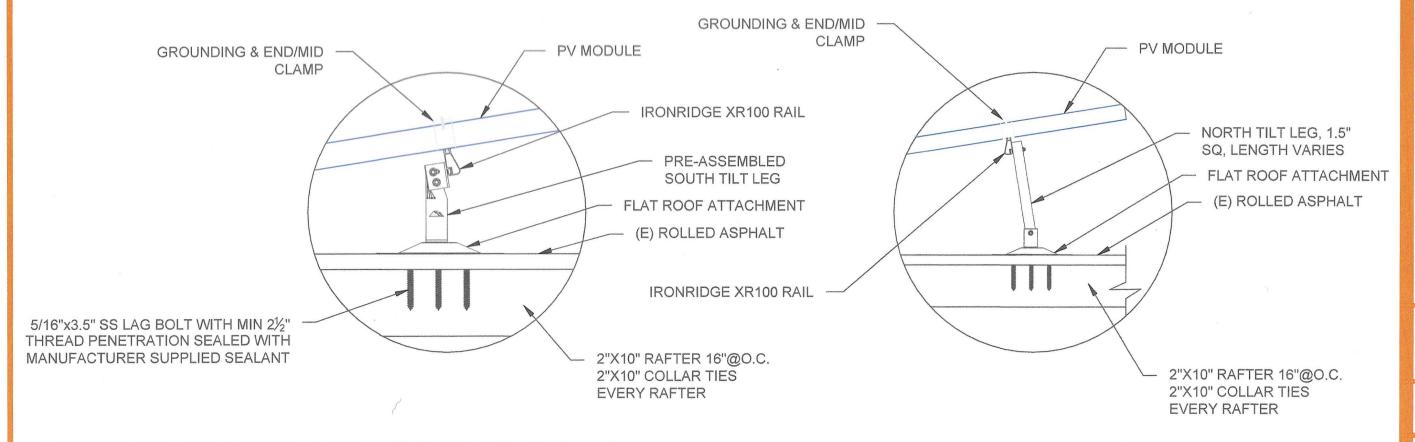
PV-3.1

Page 22



ATTACHMENT DETAIL

SCALE: NTS



ATTACHMENT DETAIL (ENLARGED SECTION VIEW)

SCALE: NTS

SIGNATURE & SEAL

GHES GREEN HYBRID ENERGY SOLUTION

ADDRESS: 11 WASHINGTON PL E, WHITE PLAINS, NY 10603, USA

REVISIONS
DESCRIPTION DATE REV

LECTRICAL LICENSE # 1163

HOMEOWNER INFO

CHARLOTTE BINNS
2 HERITAGE HILL RD,
IRVINGTON, NY 10533, USA

APN: 55260021115949 EMAIL: -

SHEET NAME

ATTACHMENT DETAIL

ANSI B

SHEET NUMBER PV-3.2

Page 23



ELECTRICAL SHOCK HAZARD

DO NOT TOUCH TERMINALS TERMINALS ON BOTH SIDES MAY BE ENERGIZED IN THE **OPEN POSITION. DUAL POWER SOURCE: UTILITY** AND SOLAR PV POWER MAY **BE PRESENT**

LABEL LOCATION: INSTALL ON EACH PV AC DEVICE, PRODUCTION METER, UTILITY METER PER CODE: NEC 2017 690,17(E), 705,12(B)(3)



ELECTRICAL SHOCK HAZARD THE DC CONDUCTORS OF THIS PHOTOVOLTAIC SYSTEM ARE **UNGROUNDED AND MAY BE ENERGIZED**

LABEL LOCATION: INSTALL ON EACH INVERTER. PER CODE: 2017 NEC 690.35(F)



ADJACENT TO PV BREAKER (IF APPLICABLE).

! WARNING !!

DUAL POWER SUPPLY SOURCES: UTILITY GRID AND PV SOLAR ELECTRIC SYSTEM

LABEL LOCATION: INSTAL ON EACH PV AC DEVICE PER CODE: NEC 2017 690.56(B)

PHOTOVOLTAIC AC DISCONNECT SWITCH

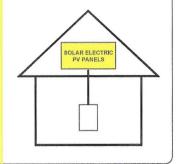
LABEL LOCATION: INSTALL ON PV SYSTEM DISCONNECTING MEANS PER CODE: NEC 2017 690.13 (B)

RAPID SHUTDOWN SWITCH FOR SOLAR PV SYSTEM

NEC 690.56(C)(3) SIGNAGE LOCATIONS: MAIN SERVICE PANEL

SOLAR PV SYSTEM EQUIPPED WITH RAPID SHUTDOWN

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



SIGNAGE LOCATIONS MAIN SERVICE PANEL

SIGNAGE NOTES

- 1,MATERIAL USED FOR THE SIGNAGE SHALL BE REFLECTIVE,WEATHER RESISTANT AND SUITABLE FOR THE ENVIRONMENT.
- 2.ALL SIGNAGE SHALL HAVE ALL CAPITAL LETTERS WITH MINIMUM 3/8" LETTER HEIGHT, WHITE ON RED BACKGROUND.
- 3.MAIN SERVICE DISCONNECT MARKING SHALL BE PLACED ADJACENT TO MAIN SERVICE DISCONNECT IN A LOCATION CLEARLY VISIBLE FROM THE LOCATION WHERE THE LEVER IS OPERATED.
- 4.MARKING IS REQUIRED ON ALL INTERIOR AND EXTERIOR DC CONDUIT. RACEWAYS, ENCLOSURES, CABLE ASSEMBLIES, AND JUNCTION BOXES TO ALERT THE FIRE SERVICE TO AVOID CUTTING THEM.MARKING SHALL BE PLACED EVERY 10',AT
- TURNS AND ABOVE AND/OR BELOW PENETRATIONS. AND AT ALL DC COMBINER AND JUNCTION BOXES.
- 5.DO NOT US SCREWS FOR SIGNAGE ATTACHMENT. USE ONLY APPROVED ADHESIVE

WARNING

SOLAR ELECTRIC CIRCUIT **BREAKER IS BACKFED**

LABEL LOCATION: INSTALL AT PV CIRCUIT BREAKER WHEN BACKFEEDING PER CODE(S): NEC 2017 690.64. 705.12(D)(2)(3)(B)

WARNING SOALAR PV INVERTER OUTPUT CONNECTION **BACK-FED BREAKERS DO NOT ADD LOADS**

LABEL LOCATION: INSTALL ON AC COMBINER PER CODE: NEC 2017 690.64 705.12(D)(2)(3)(C)

WARNING: PHOTOVOLTAIC **POWER SOURCE**

15

INTERIOR AND EXTERIOR DC CONDUIT EVERY 10 FT, AT EACH TURN, ABOVE AND BELOW PENETRATIONS, ON EVERY JB/PULL BOX CONTAINING DC CIRCUITS. PER CODE: NEC 2017: 690.31(G)(3)

PHOTOVOLTAIC DC DISCONNECT

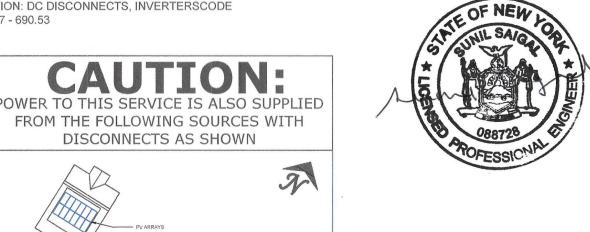
MAXIMUM SYSTEM VOLTAGE MAXIMUM CIRCUIT CURRENT: CONTROLLER OR DC-TO-DC CONVERTER (IF INSTALLED): 30 ADC

LABEL LOCATION: DC DISCONNECTS, INVERTERS CODE REF: NEC 2017 - 690.53

PHOTOVOLTAIC DC DISCONNECT

MAXIMUM SYSTEM VOLTAGE: MAXIMUM CIRCUIT CURRENT 15.00 AD MAX RATED OUTPUT CURRENT OF THE CHARGE CONTROLLER OR DC-TO-DC CONVERTER (IF INSTALLED): 30 AD

LABEL LOCATION: DC DISCONNECTS, INVERTERSCODE REF: NEC 2017 - 690.53





CONTRACTOR

ADDRESS: 11 WASHINGTON PLE, WHITE PLAINS, NY 10603, USA PHONE: 9143467588

HES GREEN HYBRID ENERGY SOLUTION

CONTRACTOR LICENSE #: WC-24683-H1 ELECTRICAL LICENSE # 1163 EMAIL: awglover@ghessolar.com

REVIS	SIONS	100000000000000000000000000000000000000
DESCRIPTION	DATE	REV

SIGNATURE & SEAL

HOMEOWNER INFO

HILL RD, 10533, USA B N N N N N 2 HERITAGE I IRVINGTON, NY CHARL

APN: 55260021115949 EMAIL: -

SHEET NAME

PLACARDS

SHEET SIZE

ANSIB 11" X 17"

SHEET NUMBER

PV-6

CODE REF: NEC 2017 - 705.10

LABEL LOCATION: MSP



CELL TECHNOLOGY

INNOVATIVE ALL-WEATHER TECHNOLOGY

Optimal yields, whatever the weather with excellent low-light and temperature behavior.



ENDURING HIGH PERFORMANCE

Long-term yield security with Anti LID and Anti PID Technology¹, Hot-Spot Protect and Traceable Quality Tra,Q™.



FRAME FOR VERSATILE MOUNTING OPTIONS

High-tech aluminum alloy frame protects from damage, enables use of a wide range of mounting structures and is certified regarding IEC for high snow (5400Pa) and wind loads (2400Pa).



A RELIABLE INVESTMENT

Double glass module design enables extended lifetime with 12-year product warranty and improved 30-year performance warranty².

 $^{\rm L}$ APT test conditions according to IEC/TS 62804-1:2015 method B (=1500 V, 168h) including post treatment according to IEC 61215-1-1Ed. 2.0 (CD) $^{\rm R}$ See data sheet on rear for further information.

THE IDEAL SOLUTION FOR:

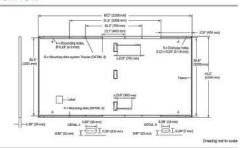


Engineered in Germany

QCELLS

MECHANICAL SPECIFICATION

Format	87.2 in × 41.1 in × 1.38 in (including frame) (2216 mm × 1045 mm × 35 mm)
Weight	64.2lbs (29.1kg)
Front Cover	0.08 in (2.0 mm) thermally pre-stressed glass with anti-reflection technology
Back Cover	0.08 in (2.0 mm) semi-tempered glass
Frama	Anodized aluminum
Cell	6 × 26 monocrystalline Q.ANTUM solar half cells
Junction Box	$2.09-3.98 \ln \times 1.26-2.36 \ln \times 0.59-0.71 \ln $ (53-101 mm × 32-60 mm × 15-18 mm), IP67, with bypass diodes
Cable	4 mm² Solar cable; (+) ≥27.6 in (700 mm), (-) ≥13.8 in (350 mm)
Connector	Stăubli MC4, Stăubli MC4-Evo2, Hanwha Q CELLS HQC4, IP68



ELECTRICAL CHARACTERISTICS

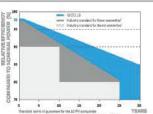
PO	WER CLASS			475		480		485		490	
MIN	I MUM PERFORMANCE AT STANDA	RD TEST CONDITIO	NS, STC ¹ A	ND BSTC1 (P	OWER TOL	ERANCE+5	W/-0W)				
	(F				BSYC*		BSYC*		6STC*		BSTC*
- 1	Power at MPP ¹	P _{MPP}	[W]	475	519.6	480	525.0	485	530.5	490	536.0
-	Short Circuit Current ¹	I _{sc}	[A]	11.08	12.12	11.12	12.17	11.16	12.21	11.20	12.26
unu	Open Circuit Voltage ¹	V _{oc}	[V]	53.15	53.34	53.39	53.58	53.63	53.82	53.86	54.06
link	Current at MPP	Мрр	[A]	10.55	11.54	10.59	11.58	10.63	11.63	10.67	11.67
-	Voltage at MPP	V _{MPP}	[V]	45.03	45.02	45.33	45.32	45.63	45.62	45.93	45.92
	Efficiency ¹	η	[%]	≥20.5	≥22.4	≥20.7	≥22.7	≥20.9	≥22.9	≥21.2	≥23.1

Bifaciality of P_{NP} and I_{SC} 70% ±5% • Bifaciality given for rear side irradiation on top of STC (front side) • According to IEC 60904-1-2

 $^1\text{Measurement tolerances P_{MRV}} \pm 3\%; |_{5\text{C}_{\text{t}}} \text{V}_{\text{C}_{\text{c}}} \pm 5\% \text{ at STC} : 1000\text{W/m}^2; \text{ at BSTC} : 1000\text{W/m}^2 + \phi \times 135\text{W/m}^2, \phi = 70\% \pm 5\%, 25 \pm 2^{\circ}\text{C}, \text{AM 1.5 according to IEC 60904-3} = 1000\text{W/m}^2; \text{ at BSTC} : 1000\text{W/m}^2; \text{ at BSTC$

Power at MPP	P _{MPP}	[W]	357.6	361.4	365.1	368.9
§ Short Circuit Current	Iso	[A]	8.92	8.96	8.99	9.02
Dpen Circuit Voltage	Voc	[V]	50.27	50.49	50.72	50,95
Current at MPP	l _{MPP}	[A]	8.30	8.34	8.37	8.40
Voltage at MPP	V _{MPP}	[V]	43.06	43.35	43.63	43.92

Q CELLS PERFORMANCE WARRANTY



At least 98% of nominal power during first year. Thereafter max. 0.45% degradation per year. At least 93.95% of nominal power up to 10 years. At least 84.95% of nominal power up to 30 years.

All data within measurement tolerance es. Full warranties in accordance with the warranty terms of the Q CELLS sales organisation of your respective

PERFORMANCE AT LOW IRRADIANCE

comparison to STC conditions (25°C, 1000 W/m²)

TEMPERATURE COEFFICIENTS								
Temperature Coefficient of I ₈₀	а	[%/K]	+0.04	Temperature Coefficient of Voc	β	[%/K]	-0.27	
Temperature Coefficient of Page	γ	[%/K]	-0.34	Nominal Module Operating Temperature	NMOT	[°F]	108±5.4 (42±3°C)	

PROPERTIES FOR SYSTEM DESIGN

		THOU ENTIRED ! C	THE OTHER PERIOR	
Maximum System Voltage V _{srs}	[V]	1500	PV module classification	Class II
Maximum Series Fuse Rating	[A DC]	20	Fire Rating based on ANSI/UL 61730	TYPE 29 ⁴
Max. Design Load, Push/Pull [‡]	[lbs/ft ²]	75 (3600 Pa)/33 (1600 Pa)	Permitted Module Temperature	-40°F up to +185°F
Max. Test Load, Push / Pull!	[lbs/ft ²]	113 (5400 Pa) / 50 (2400 Pa)	on Continuous Duty	(-40°C up to +85°C)
⁹ See Installation Manual			* New Type is similar to Type 3 but with metallic frame	

QUALIFICATIONS AND CERTIFICATES

Quality Controlled PV UL 61730, CE-complian IEC 61215/2016 IEC 61730:2016, U.S. Patent No. 9,893,215 (solar cells)







				[16]	0-O	40°HC	
Horizontal packaging	89.4in	43.1in	47.6in	1975lbs	20	20	29
	2270mm	1095mm	1210mm	896kg	pallets	pallets	modules
Vertical	90.8in	45.3in	47.4in	2013lbs	20	20	30
packaging	2306mm	1150mm	1205 mm	913kg	pallets	pallets	modules

PACKAGING INFORMATION

Note: Installation instructions must be followed. See the installation and operating manual or contact our technical service department for further information on approved installation and use

Hanwha Q CELLS America Inc.

400 Spectrum Center Drive, Sulte 1400, Irvine, CA 92618, USA | TEL +1 949 748 59 96 | EMAIL Inquiry@us.q-cells.com | WEB www.q-cells.us

GHES GREEN HYBRID ENERGY SOLUTION

CONTRACTOR

ADDRESS: 11 WASHINGTON PLE, WHITE PLAINS, NY 10603, USA PHONE: 9143467588

CONTRACTOR LICENSE #: WC-24683-H11 ELECTRICAL LICENSE #: 1163

EMAIL: awglover@ghessolar.com

ESCRIPTION	DATE	REV



N N N N RD, 3, U HILL 1053; 2 HERITAGE I IRVINGTON, NY CHARL

APN: 55260021115949

EMAIL: -PHONE: -

SHEET NAME

EQUIPMENT SPECIFICATION

> SHEET SIZE ANSI B

11" X 17"

SHEET NUMBER

Page 25

Single Phase Energy Hub **Inverter with Prism Technology**

For North America

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



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

solaredge.com

Direct connection to the SolarEdge smart EV

- / 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	UNIT:
OUTPUT - AC ON GRID							
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 ⁽²⁾			Hz
Maximum Continuous Output Current @ 240V	12.5	16	25	32	42	47.5	А
Maximum Continuous Output Current @ 208V	-	16	24	-	-	48.5	А
GFDI Threshold			1				А
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(3)							
Rated AC Power in Backup Operation ⁽⁴⁾	3000	3800 7600*	6000	7600 10300*	10000	10300	W
AC L-L Output Voltage Range in Backup			211 -	264		Annual Control of the	Vac
AC L-N Output Voltage Range in Backup			105 -	132		A PRODUCTION OF THE STREET, ST.	Vac
AC Frequency Range in Backup (min - nom - max)			55 - 6	0 - 65			Hz
Maximum Continuous Output Current in Backup Operation	12.5	16 32*	25	32 43*	42	43	А
GFDI			1				Α
THD			<	5			%
OUTPUT - SMART EV CHARGER AC							
Rated AC Power	1	ton, the specific flacts are specificated was to which the total Processing	96	00		Commence of the second	W
AC Output Voltage Range			211 -	264			Vac
On-Grid AC Frequency Range (min - nom - max)			59.3 - 60	0 - 60.5	***************************************	a processing of the constitution of the constitution of	Hz
Maximum Continuous Output Current @240V (grid, PV and battery)			4	0	THE RESERVE OF THE PARTY OF THE		Aac
INPUT - DC (PV AND BATTERY)							
Transformer-less, Ungrounded	T		Ye	25			
Max Input Voltage			48	30			Vdc
Nom DC Input Voltage			38				Vdc
Reverse-Polarity Protection	***************************************	THE RESERVE AND ADDRESS OF THE PARTY OF THE	Ye	es		***************************************	
Ground-Fault Isolation Detection			600kΩ Se	ensitivity			
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 ⁽⁵⁾ @ 240V	8.5	10.5	16.5	20 31*	27	31	Adc
Maximum Input Current ⁽⁵⁾ @ 208V	-	9	13.5	-	_	27	Adc
Max. Input Short Circuit Current			15.5				Adc
Maximum Inverter Efficiency	99		4.	99.2			%
CEC Weighted Efficiency	33		99	77.6		99 @ 240V 98.5 @ 208V	%
2-pole Disconnection			Ye	PS		20.2 @ 2004	
							L

* Supported with PN SExxxxH-USMMxxxxxx or SExxxxH-USMNxxxxxx

Supported with PVI SEXXXVIII ON INTERCENT OF A CITY OF THE PRINTS OF THE

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

CONTRACTOR

ADDRESS: 11 WASHINGTON PLE, WHITE PLAINS, NY 10603, USA

PHONE: 9143467588

CONTRACTOR LICENSE #: WC-24683-H1 ELECTRICAL LICENSE #: 1163

REVISIONS

	DESCRIPTION	DATE	REV
	OF NE		DET 48.80
4	SIGNATUL	2E & 6	
	WIL SA	IGN O	2
	GUNIL SA	IGN.	*
	SUILL SA	CA	1 × 4
	SUITE SA	CV	\$ * E
	STATE SA		AX * AHAMIS

HILL RD, 10533, USA BINNS CHARLOTTE 2 HERITAGE I

APN: 55260021115949

SHEET NAME

EQUIPMENT SPECIFICATION

> SHEET SIZE ANSI B 11" X 17"

SHEET NUMBER

/ 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	UNIT
INPUT - DC (BATTERY)							
Supported Battery Types		Sola	arEdge Energy Bar	nk, LG RESU Prime ⁽⁶)		
Number of Batteries per Inverter		Up to 3 So	larEdge Energy Ba	ink, up to 2 LG RESU	J Prime		
Continuous Power ⁽⁷⁾	6000	7600		-	000		W
Peak Power ⁽⁷⁾	6000	7600		100	000		W
Max Input Current	16	20		26	5.5		Adc
2-pole Disconnection			Y	'es			
SMART ENERGY CAPABILITIES							
Consumption Metering			Built	: - in ⁽⁸⁾			1
Backup & Battery Storage	With Ba	ckup Interface (pur	chased separately) for service up to 2	00A; Up to 3 inverte	ers	
EV Charging]	Direct connection	to Smart EV charge	r		**************************************
ADDITIONAL FEATURES							
Supported Communication Interfaces		RS485, Ethernet, Cellular [®] , Wi-Fi (optional), SolarEdge Energy Net (optional)					
Revenue Grade Metering, ANSI C12.20	Built - in ⁽⁸⁾						
Integrated AC, DC and Communication Connection Unit	Yes						
Inverter Commissioning ·	With the SetApp mobile application using built-in Wi-Fi Access Point for local connection						
DC Voltage Rapid Shutdown (PV and Battery)		Yes, according	g to NEC 2014, NEC	C 2017 and NEC 202	20 690.12		
STANDARD COMPLIANCE							
Safety		UL1741, UL1741 SA	, UL1741 PCS, UL16	599B, UL1998, UL95	40, CSA 22.2		
Grid Connection Standards	IEEE1547, Rule 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			
				17.7 x 14.6 x 6.8 / 450 x 370 x 174			
Dimensions with Connection Unit (H x W x D)	17.7 x 14	4.6 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/mr
Weight with Connection Unit	26/11.8 26/11.8 30.2/13.7* 30.2/13.7		13.7	lb/kg			
Noise	< 25	< 25 < 50*	< 25	A Carry processor and a carry	< 50		dBA
Cooling	Natural Convection						
Operating Temperature Range	-40 to +140 / -40 to +60 ⁽¹⁰⁾			°F/°C			
Protection Rating	NEMA 4						



© SolarEdge Technologies, Inc. All rights reserved. SOLAREDGE, the SolarEdge logo, OPTIMIZED BY SOLAREDGE are trademarks or registered trademarks of SolarEdge Technologies, Inc. All other trademarks mentioned herein are trademarks of their respective owners. Date: 06/2021 DS-000031-1.5-NAM. Subject to change without notice.

RoHS

SOLUTIONS, INC.

ADDRESS: 11 WASHINGTON PLE, WHITE PLAINS, NY 10603, USA

PHONE: 9143467588

CONTRACTOR LICENSE #: WC-24683-H1 ELECTRICAL LICENSE #: 1163

EMAIL: awglover@ghessolar.com

REVISIONS				
DESCRIPTION	DATE	REV		

SIGNATURE & SEAL

HOMEOWNER INFO

HILL RD, 10533, USA BNS BNS BNS 2 HERITAGE PIRVINGTON, NY CHARLOTT

SHEET NAME

EQUIPMENT SPECIFICATION

> SHEET SIZE ANSI B 11" X 17"

SHEET NUMBER

PV-8.1

Requires supporting inverter firmware
(7) Diskneye power is limited up to the inverter rated AC power for on-grid and backup applications
(8) 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
(9) 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
(10) 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

Power Optimizer For Residential Installations

S440, S500



Enabling PV power optimization at the module level

- Specifically designed to work with SolarEdge residential inverters
- Detects abnormal PV connector behavior, preventing potential safety issues*
- Module-level voltage shutdown for installer and firefighter safety
- Superior efficiency (99.5%)

- / Mitigates all types of module mismatch loss, from manufacturing tolerance to partial shading
- Faster installations with simplified cable management and easy assembly using a single bolt
- Flexible system design for maximum space utilization
- **✓** Compatible with bifacial PV modules

solaredge.com



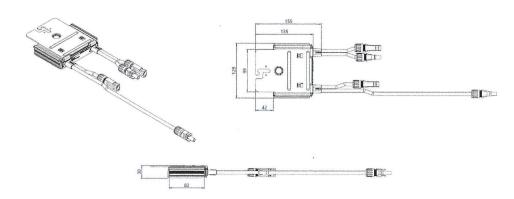
/ Power Optimizer For Residential Installations

S440, S500

the state of the s	S440	S500	UNIT
Rated Input DC Power ⁽¹⁾	440	500	W
Absolute Maximum Input Voltage (Voc)	6	50	Vdc
MPPT Operating Range	8 -	60	Vdc
Maximum Short Circuit Current (Isc) of Connected PV Module	14.5	15	Adc
Maximum Efficiency	99	9.5	%
Weighted Efficiency	98	3.6	%
Overvoltage Category		II	
OUTPUT DURING OPERATION			
Maximum Output Current	1	5	Adc
Maximum Output Voltage	6	60	Vdc
OUTPUT DURING STANDBY (POWER OPTIMIZER DISC	CONNECTED FROM INVERTER OF	INVERTER OFF)	
Safety Output Voltage per Power Optimizer		1	Vdc
STANDARD COMPLIANCE			
EMC	FCC Part 15 Class B, IEC61000-6-2	2, IEC61000-6-3, CISPR11, EN-55011	
Safety	IEC62109-1 (class	II safety), UL1741	***************************************
Material	UL94 V-0, U	JV Resistant	
RoHS	Y	es	
Fire Safety	VDE-AR-E 2100-712:2013-05		
INSTALLATION SPECIFICATIONS			
Maximum Allowed System Voltage	10	00	Vdc
Dimensions (W x L x H)	129 x 1	55 x 30	mm
Weight (including cables)	655	/ 1.5	gr/l
Input Connector	MC	(4(2)	
Input Wire Length	0	.1	m
Output Connector	M	C4	
Output Wire Length	(+) 2.3,	(-) 0.10	m
Operating Temperature Range ⁽³⁾	~40 to	o +85	°C
Protection Rating	IP68 / N	IEMA6P	
Relative Humidity	0 =	100	%

PV System Design Usi Inverter	ng a SolarEdge	Single Phase HD-Wave	Three Phase	Three Phase for 277/480V Grid	
Minimum String Length (Power Optimizers)	S440, S500	8	16	18	
Maximum String Length (Powe	er Optimizers)	25		50	
Maximum Nominal Power per	String ⁽⁴⁾	5700	11250(5)	12750(6)	W
Parallel Strings of Different Len	igths or Orientations		Yes		-

(4) If the inverters rated AC power ≤ maximum nominal power per string, then the maximum power per string will be able to reach up to the inverters maximum input DC power Refer to: https://www.solaredge.com/sites/default/files/se-power-optimizer-single-string-design-application-note.pdf
(5) For the 230/400V grid: it is allowed to install up to 13,500W yer string when the maximum power difference between each string is 2,000W
(6) For the 277/480V grid: it is allowed to install up to 15,000W per string when the maximum power difference between each string is 2,000W
(7) It is not allowed to mix S-series and P-series Power Optimizers in new installations



© SolarEdge Technologies, Inc. All rights reserved. SOLAREDGE, the SolarEdge logo, OPTIMIZED BY SOLAREDGE are trademarks or registered trademarks of SolarEdge Technologies, Inc. All other trademarks mentioned herein are trademarks of their respective owners. Date: 12/2021 DS-000091-12-ENG. Subject to change without notice.

CE RoHS



CONTRACTOR

ADDRESS: 11 WASHINGTON PL E, WHITE PLAINS, NY 10603, USA PHONE: 9143467588

CONTRACTOR LICENSE #: WC-24683-H1 ELECTRICAL LICENSE #: 1163

REVISIONS			
ESCRIPTION	DATE	REV	
	7		
	THE PERSON NAMED IN COLUMN		



APN: 55260021115949

SHEET NAME

EQUIPMENT SPECIFICATION

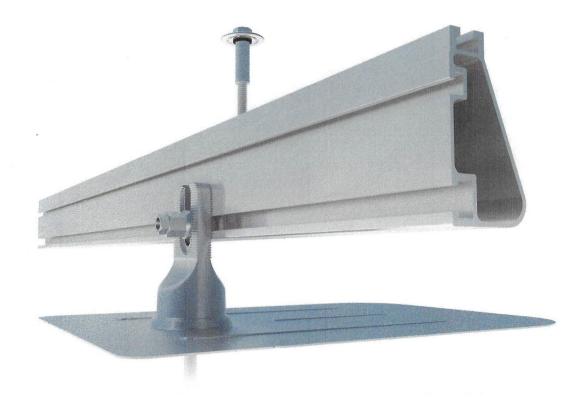
> SHEET SIZE ANSI B

11" X 17"

SHEET NUMBER PV-9

^{*} Functionality subject to inverter model and firmware version

Flush Mount System



Built for solar's toughest roofs.

IronRidge builds the strongest mounting system for pitched roofs in solar. Every component has been tested to the limit and proven in extreme environments.

Our rigorous approach has led to unique structural features, such as curved rails and reinforced flashings, and is also why our products are fully certified, code compliant and backed by a 20-year warranty.



Strength Tested

All components evaluated for superior structural performance.



Class A Fire Rating

Certified to maintain the fire resistance rating of the existing roof.



UL 2703 Listed System

Entire system and components meet newest effective UL 2703 standard.



PE Certified

Pre-stamped engineering letters available in most states.



Design Assistant

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



20-Year Warranty

Twice the protection offered by competitors.

- XR Rails (

XR10 Rail



A low-profile mounting rail for regions with light snow.

- · 6' spanning capability
- · Moderate load capability
- · Clear and black finish

Clamps & Grounding

XR100 Rail



The ultimate residential solar mounting rail.

- 8' spanning capability Heavy load capability
- Clear and black finish

Stopper Sleeves

XR1000 Rail



A heavyweight mounting rail for commercial projects.

- · 12' spanning capability
- · Extreme load capability
- · Clear anodized finish

Grounding Lugs

Connect arrays to

· Low profile

equipment ground.

· Single tool installation

Bonding Hardware

· Mounts in any direction

Bonded Splices



All rails use internal splices for seamless connections.

- · Self-drilling screws
- · Varying versions for rails
- · Forms secure bonding

Microinverter Kits



Mount MIs or POs to XR Rails.

- · Bonds devices to rails
- · Kit comes assembled
- Listed to UL 2703

· Clear and black finish Attachments

· Single, universal size

bond modules to rails.

Universal Fastening Objects

· Fully assembled & lubed

FlashFoot2

UFOs



Flash and mount XR Rails with superior waterproofing.

- Twist-on Cap eases install
- · Wind-driven rain tested
- · Mill and black finish

Slotted L-Feet



Snap onto the UFO to turn

into a bonded end clamp.

· Bonds modules to rails

· Sized to match modules

Clear and black finish

Drop-in design for rapid rail

- Secure rail connections
- · Slot for vertical adjusting
- · Clear and black finish

- to roof attachments. · T & Square Bolt options

Bond and attach XR Rails

- · Nut uses 7/16" socket
- Assembled and lubricated

Flush Standoffs



Raise Flush Mount System to various heights.

- · Works with vent flashing
- · 4" and 7" lengths
- · Ships assembled

NABCEP Certified Training



Earn free continuing education credits, while learning more about our systems.

Go to IronRidge.com/training

SHEET SIZE ANSI B 11" X 17"

SHEET NUMBER

PV-10

Resources



Design Assistant

Go from rough layout to fully engineered system. For free. Go to IronRidge.com/design

CONTRACTOR

ADDRESS: 11 WASHINGTON PLE, WHITE PLAINS, NY 10603, USA

PHONE: 9143467588

CONTRACTOR LICENSE #: WC-24683-H1 ELECTRICAL LICENSE #: 1163

EMAIL: awglover@ghessolar.com

REVISIONS DESCRIPTION DATE

B N S S S S D, USA HILL RI 10533, HERITAGE I 0 2 HERITAC IRVINGTON, I CHARL

APN: 55260021115949

SHEET NAME

EQUIPMENT SPECIFICATION

RT-MINI

Self-flashing base for asphalt & metal roof-top PV mounting systems

RT-MINI is suitable for mounting any rail system with a conventional L-Foot.



Dual bolt design: M8 or 5/16" for L-Foot & 1/4" for EMC



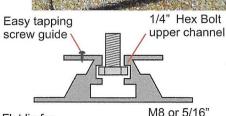
Installation Manual

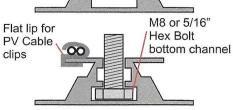


ICC ESR 3575









RT-MINI

Flexible Flashing certified by the International Code Council (ICC)

Engineered to ASTM D 1761 (Standard Test Methods for Mechanical Fasteners in Wood)

Components

RT2-00-MINIBK



MINI base: 20 ea. Screw: 40 ea. Extra RT-Butyl: 10 ea

Optional item

5 x 60mm Mounting screw (RT2-04-SD5-60): 100 ea./Bag 5/16" Hex bolt, washer & nut set (RT-04-BN30SL-US): 100 ea./Bag RT-Butyl (RT2-04-BUTYLT): 10 ea./Box

RT-Butyl is Roof Tech's flexible flashing used in one million residential PV systems for the last 26 years. It is the first PV mounting system with Flexible Flashing certified by the ICC. Engineered to withstand wind speeds up to 180 mph and ground snow up to 90 psf.

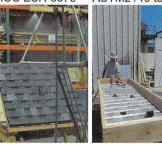
Metal Flashing Retrofit Flexible Flashing





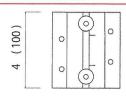
Shedding water? 100% Waterproof

ICC ESR-3575 ASTM2140 testing UV testing (7500 hrs.)



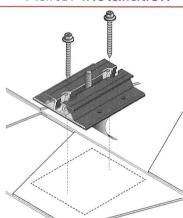


Dimensions in (mm)

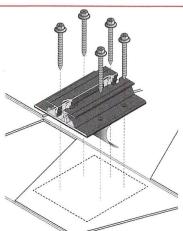


2 (50)

Rafter installation



Deck installation



P.E. Stamped Letters available at www.roof-tech.us/support TAS 100 A on metal and asphalt roof.

www.roof-tech.us info@roof-tech.us Roof Tech Inc. www.roof-tech.us info@roof-tech.us 10620 Treena Street, Suite 230, San Diego, CA 92131 858.935.6064

March 2020

GHES GREEN HYBRID ENERGY SOLUTION:

CONTRACTOR NAME: GREEN HYBRID ENERGY SOLUTIONS, INC.

LAINS, NY 10603, USA

ONTRACTOR LICENSE #: WC-24683-H ECTRICAL LICENSE # 1163

REVISIONS

BNS

8 II. HERITAGE I CHARLOT RVINGTON,

SHEET NAME

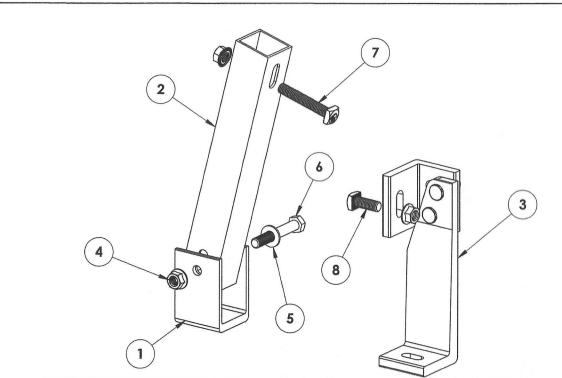
EQUIPMENT SPECIFICATION

> SHEET SIZE ANSI B 11" X 17"

SHEET NUMBER

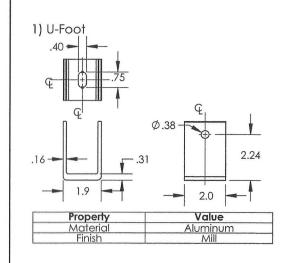


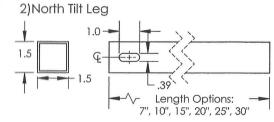
Tilt Leg



ITEM NO.	DESCRIPTION	QTY.
1	U-FOOT	1
2	NORTH TILT LEG, 1.5" SQ, LENGTH VARIES	1
3	PRE-ASSEMBLED SOUTH TILT LEG	1
4	NUT, FLANGE HEX 3/8-16 SS	3
5	WASHER, FLAT 3/8 SS	1
6	BOLT, 3/8-16 X 2.5" CS SST	1
7	BOLT, BONDING 3/8-16 SQ HEAD, 2.25"	1
8	BOLT, BONDING 3/8-16 SQ HEAD, 1.0"	1

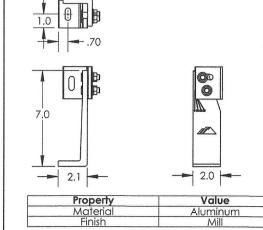
Part Number	Description	North Tilt Leg Length
TM-FTL-007	Kit, Fixed Tilt Leg, 7", Mill	7"
TM-FTL-010	Kit, Fixed Tilt Leg, 10", Mill	10"
TM-FTL-015	Kit, Fixed Tilt Leg, 15", Mill	15"
TM-FTL-020	Kit, Fixed Tilt Leg, 20", Mill	20"
TM-FTL-025	Kit, Fixed Tilt Leg, 25", Mill	25"
TM-FTL-030	Kit, Fixed Tilt Leg, 30", Mill	30"



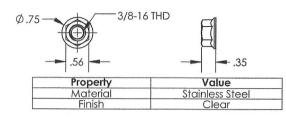


Property	Value	-
Material	Aluminum	
Finish	Mill	_

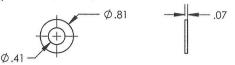
3)Pre-assembled South Tilt Leg



4) Nut, Flange Hex 3/8-16 SS

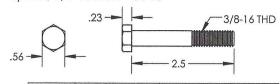


5) Washer, Flat 3/8 SS



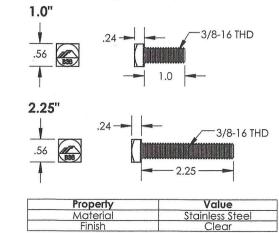
Property	Value
Material	Stainless Steel
Finish	Clear

6) Bolt, 3/8-16 X 2.5" CS SS



Property	Value
Material	Stainless Steel
Finish	Clear

7, 8) Bolt, Bonding 3/8-16 Sq Head



v1.0

GHES GREEN HYBRID ENERGY SOLUTIONS

CONTRACTOR NAME: GREEN HYBRID ENERGY SOLUTIONS, INC.

ADDRESS: 11 WASHINGTON PLE, WHITE PLAINS, NY 10803, USA

PHONE: 9143467588

CONTRACTOR LICENSE #: WC-24683-H11 ELECTRICAL LICENSE #: 1163

EMAIL: awglover@ghessolar.com

REVISIONS				
SCRIPTION	DATE	REV		



BINNS HILL RD, 10533, USA CHARLOTTE 2 HERITAGE PIRVINGTON, NY 1

APN: 55260021115949

EMAIL: -PHONE: -

SHEET NAME

EQUIPMENT SPECIFICATION

SHEET SIZE

ANSIB 11" X 17"

SHEET NUMBER

PV-12

v1.0