

ARCHITECTURAL & PRELIMINARY SITE PLAN REVIEW BOARD

MICHAEL F. LONGOBARDI – VILLAGE TRUSTEE LIAISON TIMOTHY T. TWEEDY, P.E. – CHAIRMAN JOHN LOCKWOOD ANTHONY KRUZYNSKI ROGER KUEHNLENZ EDWARD CHATTERTON

RENEE MARCUS, AIA – SUPERINTENDENT OF BUILDINGS LUCILLE LANGONE – SECRETARY

APRIL 17, 2024 8:00 pm Note Location: Recreation Center/Pool Building

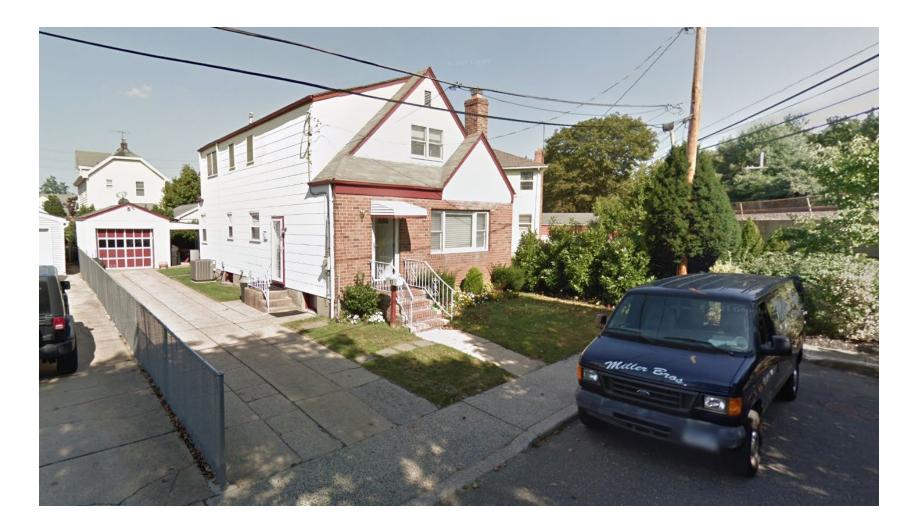
Case No.	Approximate Time	Address #	Street	Description	Owner	Design Professional
1	8:00 p.m.	99	Covert Avenue	Re-submission – Addition & Alterations	Floral Park Depository 1929 Realty Partners LLC	Kenneth R. Garvin, AIA
2	8:30 p.m.	159	Ash Street	Re-submission – 2 nd Story Addition & Alterations	Scott and Lauren Bieniek	Kenneth R. Garvin, AIA
3	8:35 p.m.	150	Charles Street	Solar	Trinity Solar	Roy Shawon
4	8:40 p.m.	246	Jericho Turnpike	Sign	V & W 236-246, LLC	Digi Sign Corp.
5	8:45 p.m.	5	Larch Avenue	Garage	John O'Donnell	Bobby K Architects
6	8:50 p.m.	122	Stewart Street	2 nd Story Addition	Vanessa Giovanni	Steven J. Treubert, PE
7	8:55 p.m.	46	Birch Street	2 nd Story Rear Addition	Anthony Sperruggia	Thomas Winnes, RA
8	9:00 p.m.	25	Irving Avenue	Front Facade	Shailendra Sah	John Schimenti
9	9:05 p.m.	17	Main Street	Solar	Akhtar Shah	Kamtech

Questions about the projects can be emailed to <u>ARB@FPVillage.org</u> prior to the meeting to allow for the Village and Applicant to be prepared with answers.

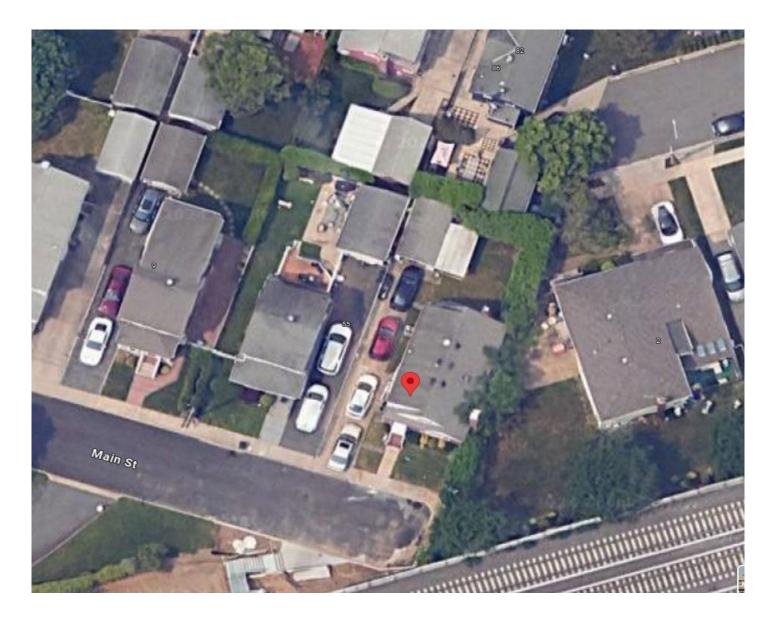
Supporting documents will be posted to the Architectural Review Board web page at least 24 hours prior to the meeting.

Click <u>here</u> for the ARB webpage.

Case No.	Approximate Time	Address #	Street	Description	Owner	Design Professional
9	9:05 p.m.	17	Main Street	Solar	Akhtar Shah	Kamtech



17 Main Street (Aerial View)

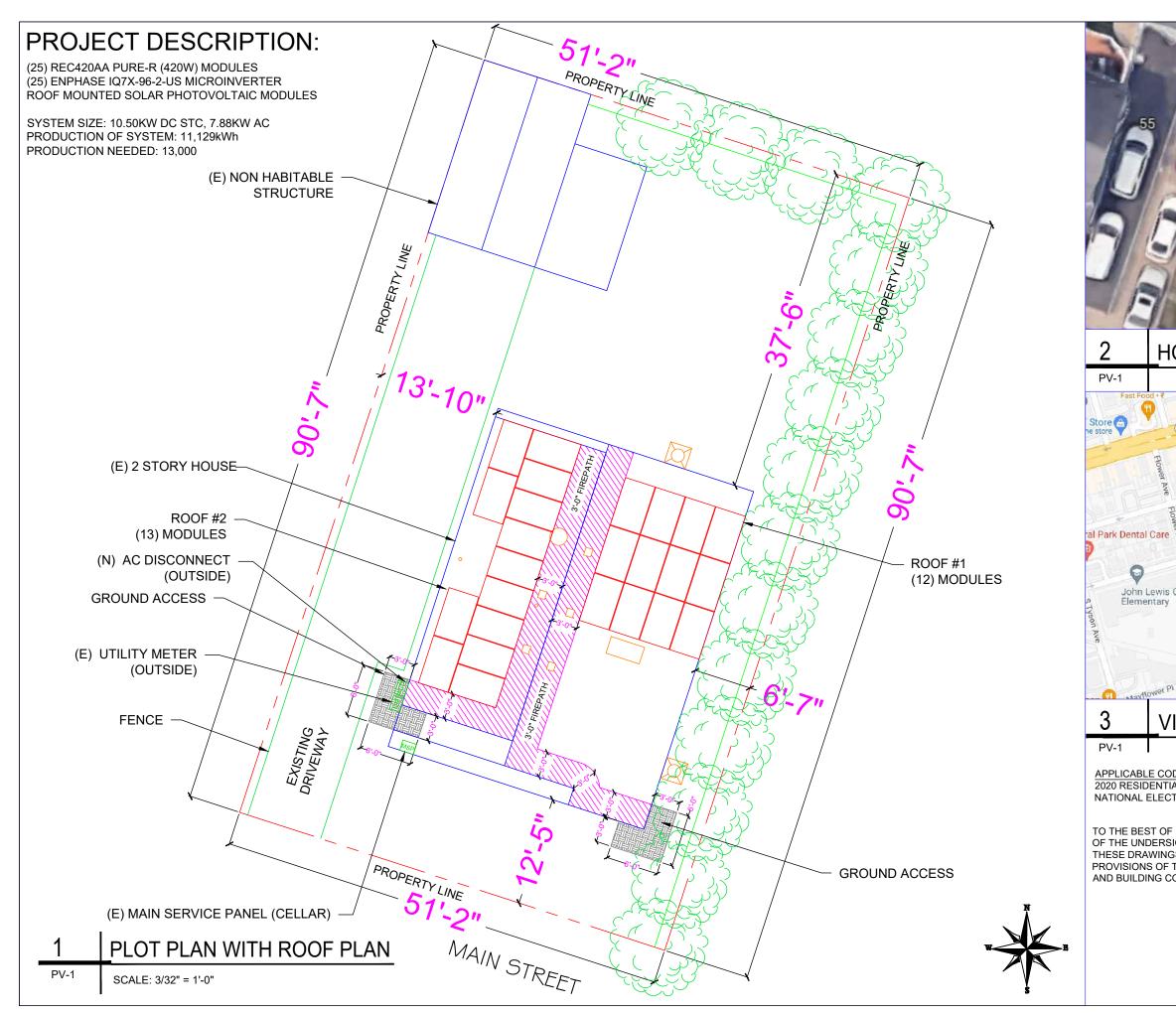


55 Main St

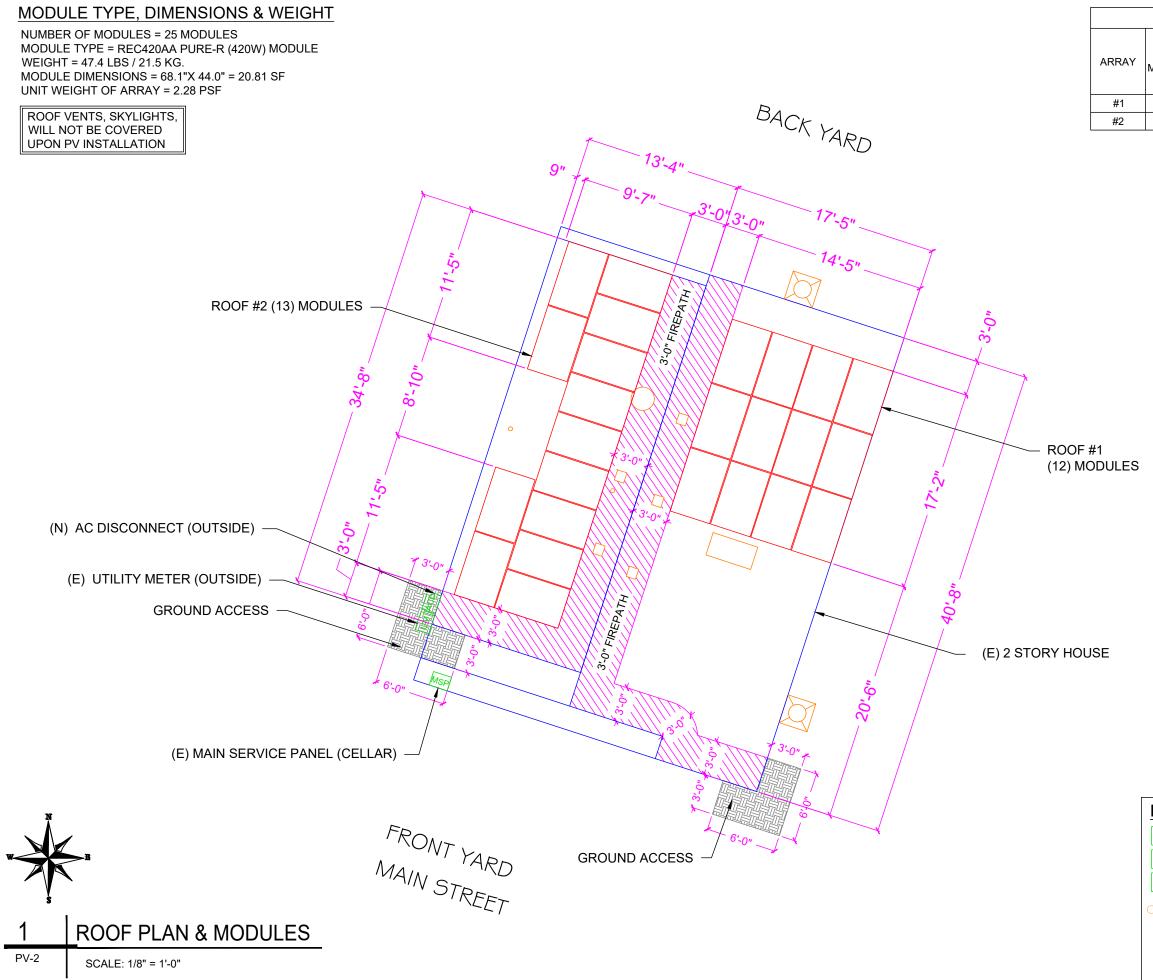


Image capture: Sep 2017 © 2024 Google

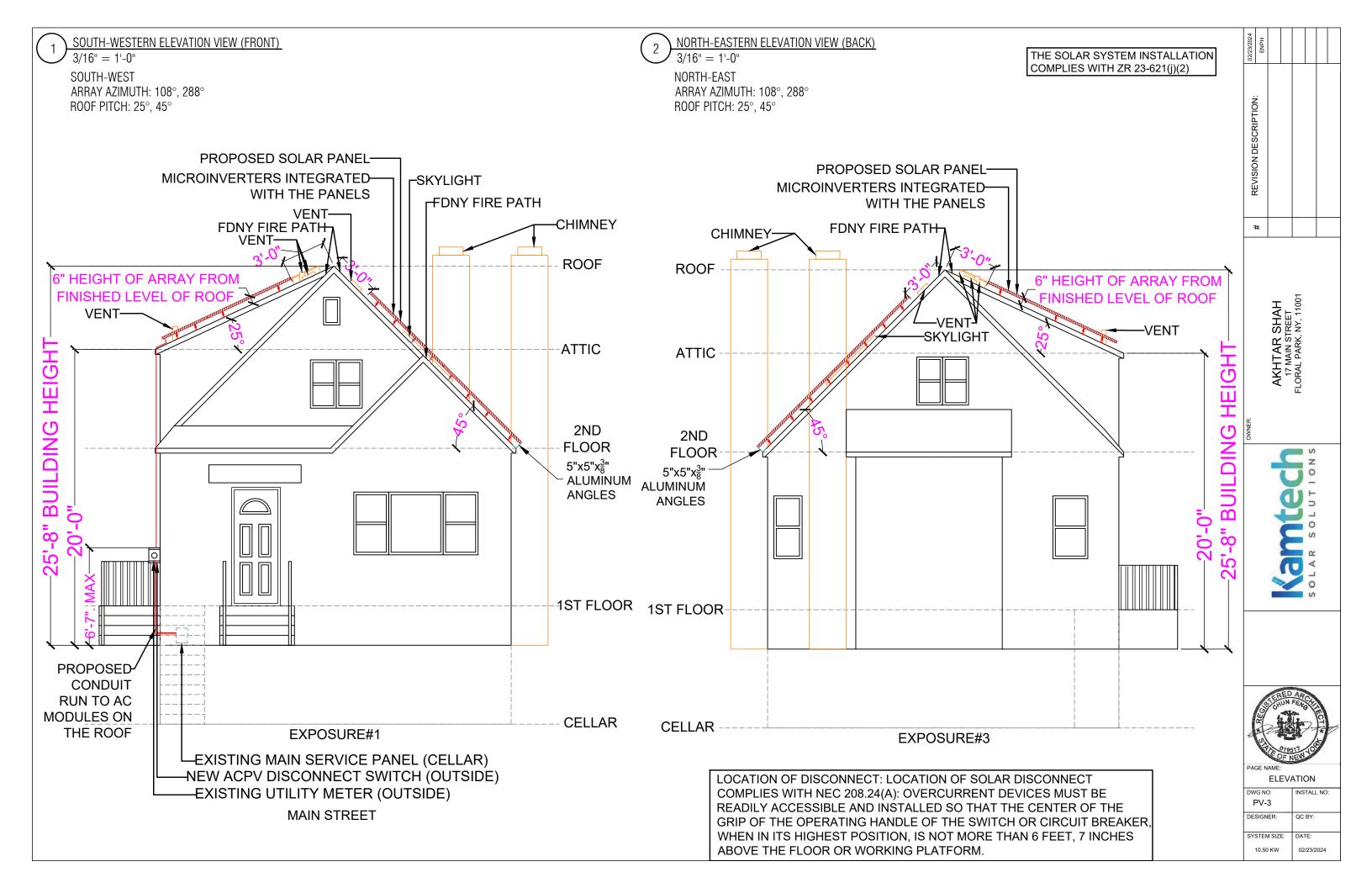


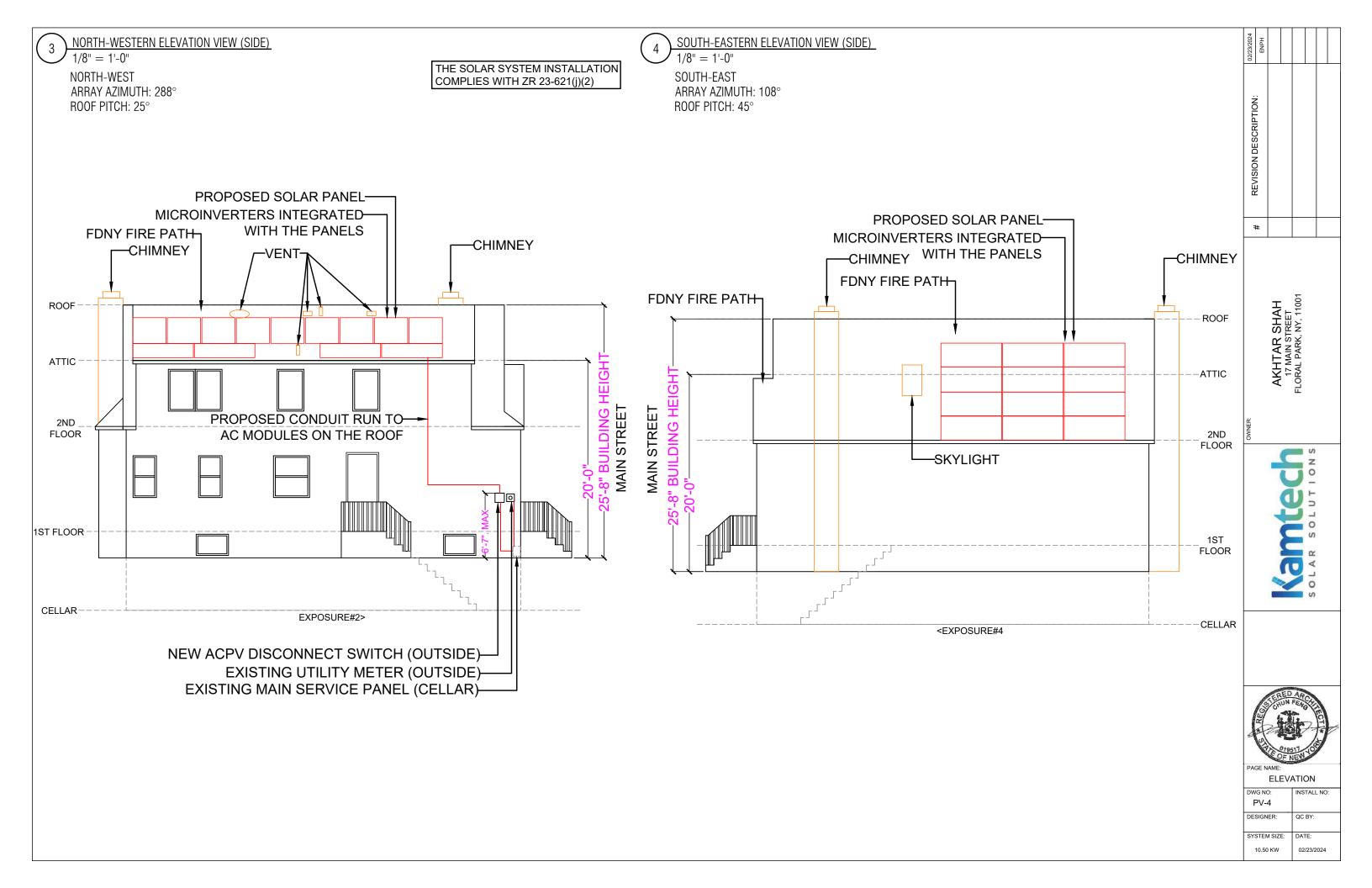


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Image: Stranger S	CIPO	ER:			
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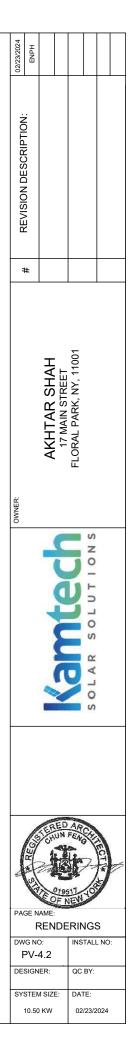


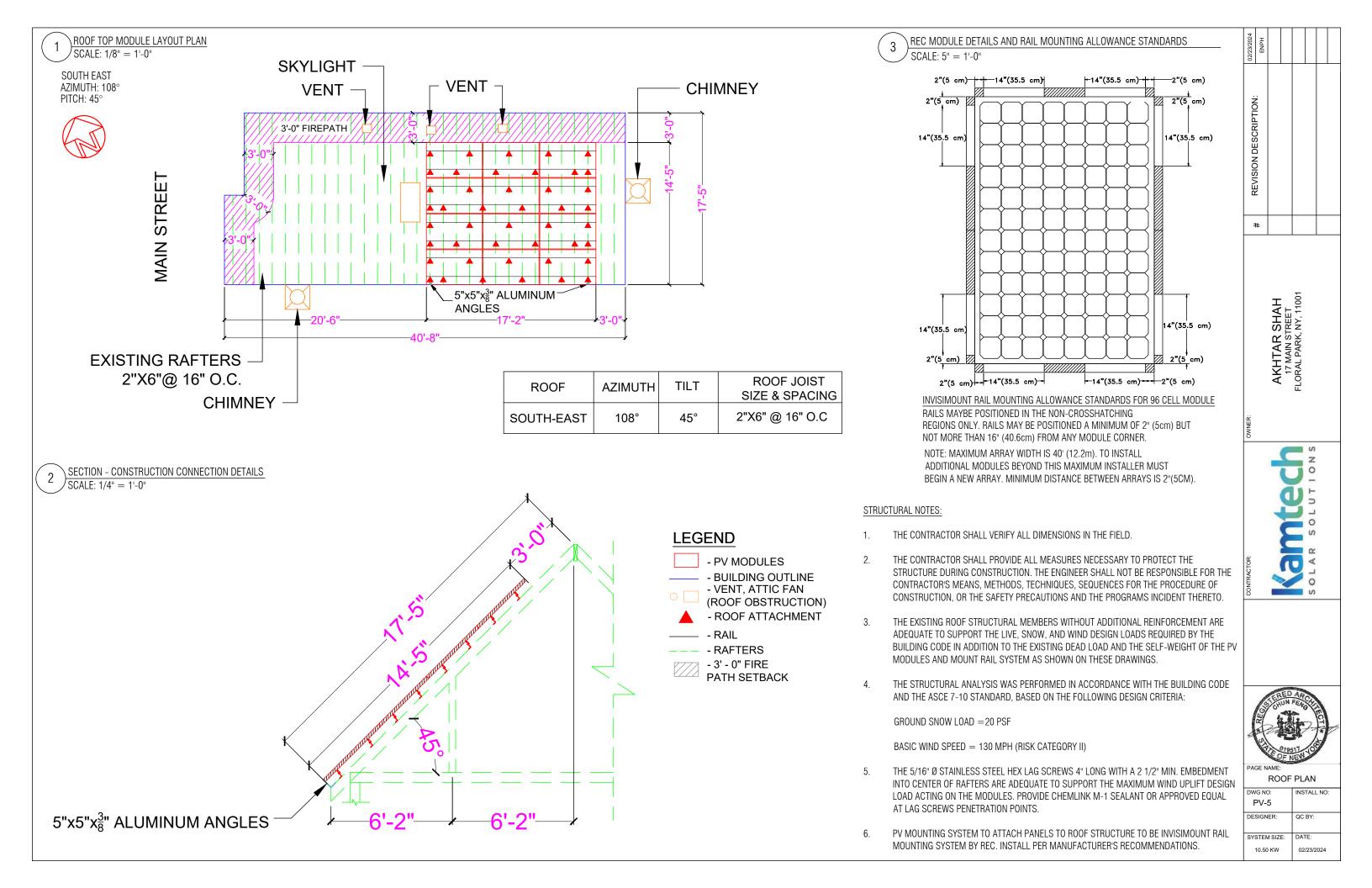


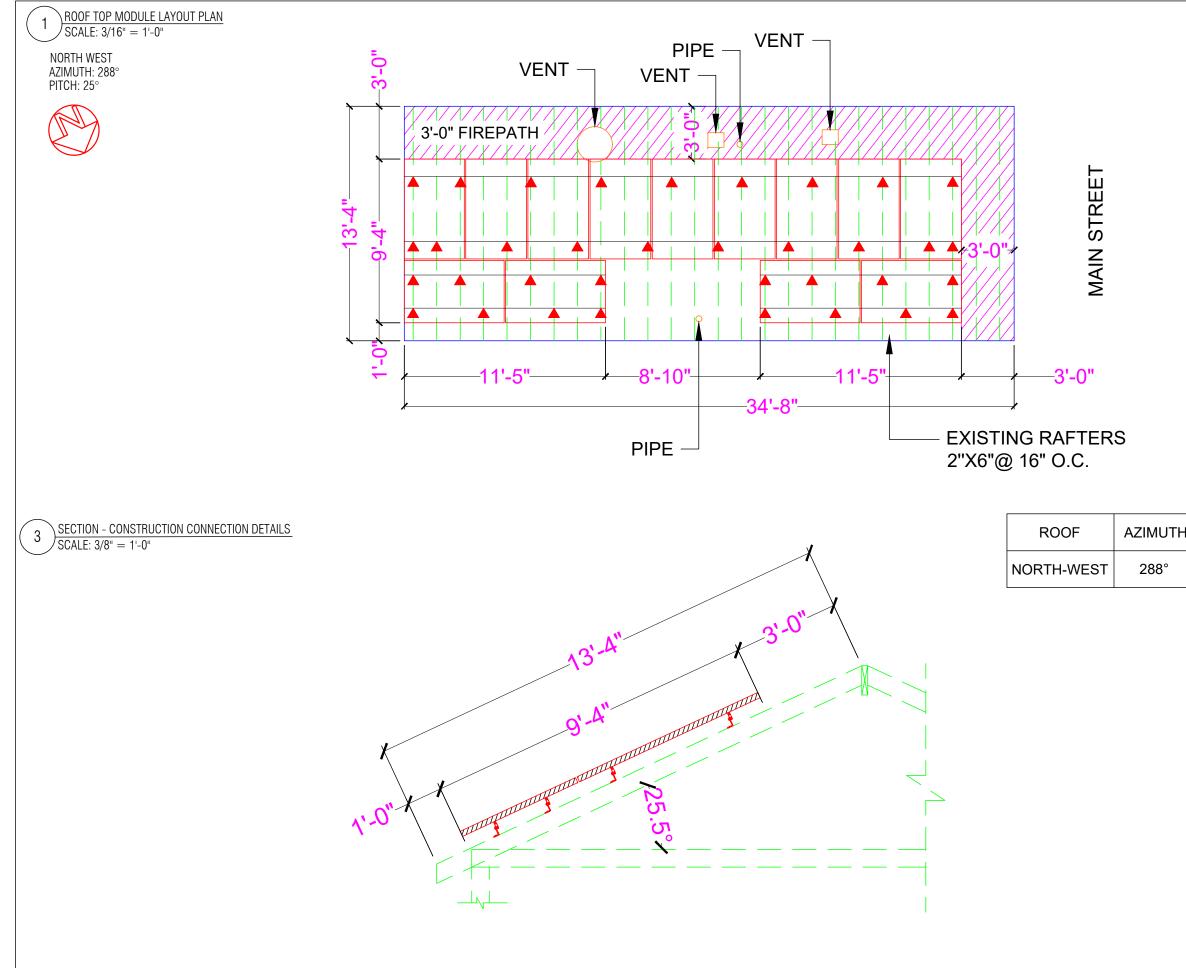




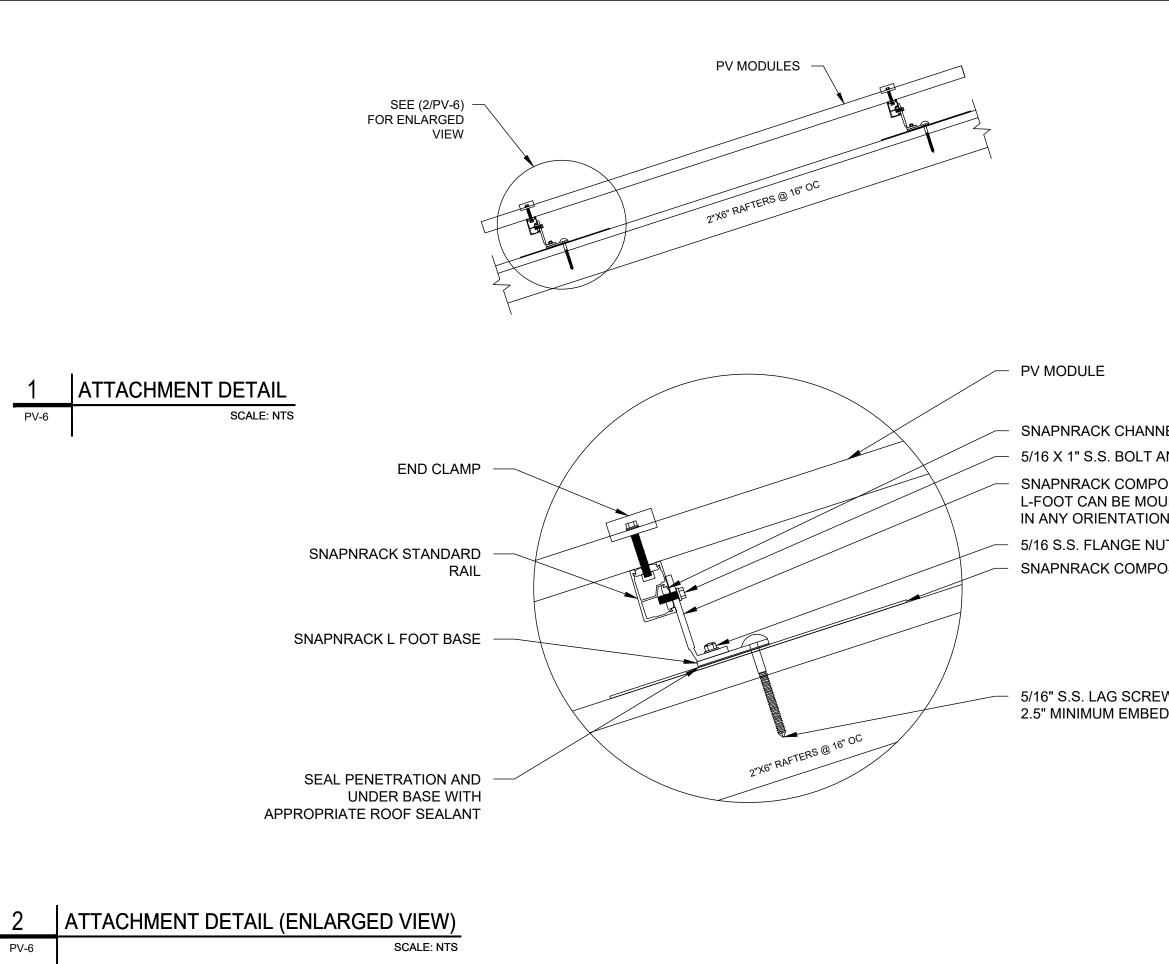








	ND PV MODULES BUILDING OUTLINE VENT, ATTIC FAN ROOF OBSTRUCTION) ROOF ATTACHMENT RAIL RAFTERS 3' - 0" FIRE ATH SETBACK	# REVISION DESCRIPTION: 02/23/2024
		OWNER: AKHTAR SHAH 17 MAIN STREET FLORAL PARK, NY, 11001
H TILT 25°	ROOF JOIST SIZE & SPACING 2"X6" @ 16" O.C	CONTRACTOR:
		PAGE NAME: ROOF PLAN DWG NO: PV-5.1 DESIGNER: 0C BY: SYSTEM SIZE: 10.50 KW 02/23/2024



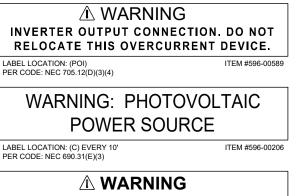
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AND SPLIT WASHER OSITION UNTED N JT OSITION ROOF FLASHING	CONTRACTOR:	Kamtoch	SOLAR SOLUTIONS	
W WITH FLAT WASHER DMENT IS STANDARD				
		UNTIN(10: -6	ARC FENG SILL NENT CONTACT INSTALL QC BY: DATE:	

WARNING - DUAL POWER SOURCE SECOND SOURCE IS PV SYSTEM LABEL LOCATION: (MP) PER CODE: NEC 705(D)(3)(4) ITEM #596-00231 PHOTOVOLTAIC AC DISCONNECT MAXIMUM AC OPERATING CURRENT: 32.75A 240 V NOMINAL OPERATING AC VOLTAGE: LABEL LOCATION: (ACD) ITEM #596-00239 PER CODE: NEC 690.54

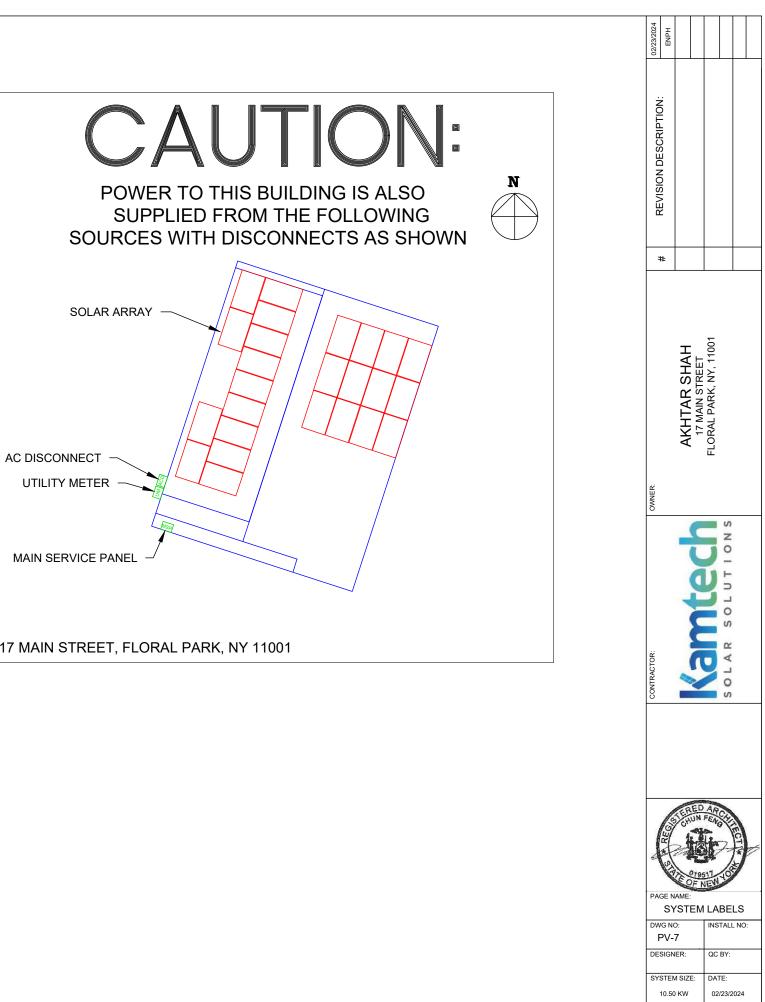


ITEM #596-00677

LABEL LOCATION: (M) PER CODE: NEC 690.56(C), MUST BE REFLECTIVE

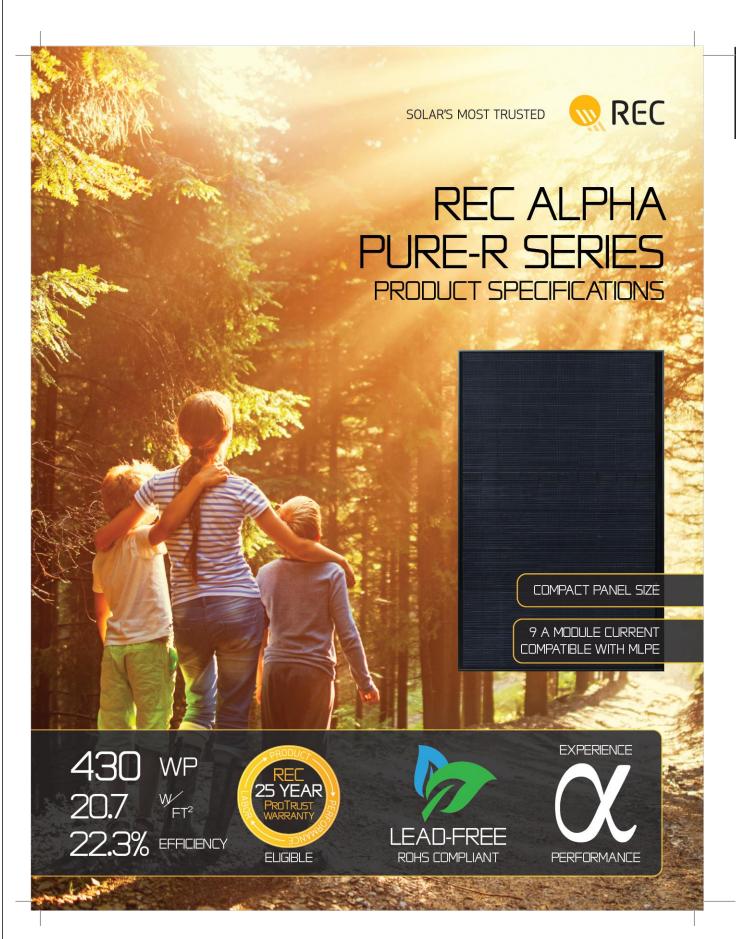


INVERTER OUTPUT CONNECTION. DO ΝΟΤ RELOCATE THIS OVERCURRENT LABEL LOCATION: (D) NEXT TO DE LAKER E PER CODE: NEC 705.12(D)(3)(4) ITEM #596-00589



17 MAIN STREET, FLORAL PARK, NY 11001

SYSTEM LABELS:



REC ALPHA PURE-R SERIES PRODUCT SPECIFICATIONS

Cell type:	80 half-cut REC bifacial, heterojunction cells with lead-free, gapless technology
Glass:	0.13 in (3.2 mm) solar glass with anti-reflective surface treatment in accordance with EN12150
Back sheet:	Highly resistant polymer (black)
Frame:	Anodized aluminum (black)
Junction box:	4-part, 4 bypass diodes, lead-free IP68 rated, in accordance with IEC 62790
Connectors:	Stäubli MC4PV-KBT4/KST4(12AWG) in accordance with IEC 62852, IP68 only when connected
Cable:	12 AWG (4 mm²) PV wire, 67 + 67 in (1.7 + 1.7 m) in accordance with EN 50618
Dimensions:	68.1 x 44.0 x 1.2 in (20.77 ft²)/ 1730 x 1118 x 30 mm (1.93 m²)
Weight:	47.4 lbs(21.5 kg)
Origin:	Made in Singapore

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ELECTRICAL DATA		Product Code*: REC	xxxAA PURE-	R
Power Output - P _{MAX} (Wp)	400	410	420	430
Watt Class Sorting-(W)	0/+10	0/+10	0/+10	0/+10
Nominal Power Voltage - V _{MPP} (V)	48.8	49.4	50.0	50.5
Nominal Power Current - I _{MPP} (A)	8.20	8.30	8.40	8.52
Open Circuit Voltage - V _{oc} (V)	58.9	59.2	59.4	59.7
ShortCircuitCurrent-I _{sc} (A)	8.80	8.84	8.88	8.91
Power Density (W/ft²)	19.26	19.74	20.22	20.70
Panel Efficiency (%)	20.7	21.2	21.8	22.3
Power Output - P _{MAX} (Wp)	305	312	320	327
Nominal Power Voltage - V _{MPP} (V)	46.0	46.6	47.1	47.6
Nominal Power Current - I _{MPP} (A)	6.64	6.70	6.80	6.88
OpenCircuitVoltage-V _{oc} (V)	55.5	55.8	56.0	56.3
ShortCircuitCurrent-I _{sc} (A)	7.11	7.16	7.20	7.24
	Power Output - P _{MXX} (Wp) Watt Class Sorting - (W) Nominal Power Voltage - V _{MPP} (V) Nominal Power Current - I _{MPP} (A) Open Circuit Voltage - V _{oc} (V) Short Circuit Current - I _{SC} (A) Power Density (W/ft ⁻²) Panel Efficiency (%) Power Output - P _{MXX} (Wp) Nominal Power Voltage - V _{MPP} (V) Nominal Power Current - I _{MPP} (A) Open Circuit Voltage - V _{oc} (V)	Power Output - P _{MAX} (Wp) 400 Watt Class Sorting - (W) 0/+10 Nominal Power Voltage - V _{MPP} (V) 48.8 Nominal Power Current - I _{MPP} (A) 8.20 Open Circuit Voltage - V _{oc} (V) 58.9 Short Circuit Current - I _{SC} (A) 8.80 Power Density (W/ft ⁻⁷) 19.26 Panel Efficiency (%) 20.7 Power Output - P _{MAX} (Wp) 305 Nominal Power Voltage - V _{MPP} (V) 46.0 Nominal Power Current - I _{MPP} (A) 6.64 Open Circuit Voltage - V _{oc} (V) 55.5	Power Output - P _{MAX} (Wp) 400 410 Watt Class Sorting - (W) 0/+10 0/+10 Nominal Power Voltage - V _{MPP} (V) 48.8 49.4 Nominal Power Current - I _{MPP} (A) 8.20 8.30 Open Circuit Voltage - V _{OC} (V) 58.9 59.2 Short Circuit Current - I _{SC} (A) 8.80 8.84 Power Density (W/ft ²) 19.26 19.74 Panel Efficiency (%) 20.7 21.2 Power Output - P _{MAX} (Wp) 305 312 Nominal Power Voltage - V _{MPP} (V) 46.0 46.6 Nominal Power Current - I _{SUPP} (A) 6.64 6.70 Open Circuit Voltage - V _{oc} (V) 55.5 55.8	Power Output - P _{MAX} (Wp) 400 410 420 Watt Class Sorting - (W) 0/+10 0/+10 0/+10 Nominal Power Voltage - V _{MPP} (V) 48.8 49.4 50.0 Nominal Power Voltage - V _{MPP} (A) 8.20 8.30 8.40 Open Circuit Voltage - V _{QC} (V) 58.9 59.2 59.4 Short Circuit Current - I _{SC} (A) 8.80 8.84 8.88 Power Density (W/ft ⁻¹) 19.26 19.74 20.22 Panel Efficiency (%) 20.7 21.2 21.8 Power Output - P _{MAX} (Wp) 305 312 320 Nominal Power Voltage - V _{MPP} (V) 46.0 46.6 47.1 Nominal Power Current - I _{SPP} (A) 6.64 6.70 6.80 Open Circuit Voltage - V _{oc} (V) 55.5 55.8 56.0

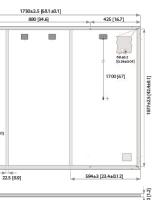
Values at standard test conditions (STC: air mass AM15, irradiance 10.75 W/sqft (1000 W/m²), temperature 77°F (25°C), based on a production spn with a tolerance of P_{ww}, V_α & l_u ±3% within one watt class. Nominal module operating temperature (NMOT: air mass AM15, irradiance 800 W/m², temperature 68°F (20°C), windspeed 3.3 ft/s (1 m/s),* Where xxx indicates the nominal power class (P_{ww}) at STC above.

MAXIMUM RATINGS		WARRANTY			
Operational temperature:	-40+85°C		Standard	REC	ProTrust
System voltage:	1000 V	Installed by an REC Certified Solar Professional	No	Yes	Yes
Test load (front):	+7000 Pa (146 lbs/ft2)*	System Size	All	≤25 kW	25-500 kV
Test load (rear):	-4000Pa (83.5 lbs/ft²)*	Product Warranty (yrs)	20	25	25
Series fuse rating:	25A	Power Warranty (yrs)	25	25	25
Reverse current:	25 A	Labor Warranty (yrs)	0	25	10
	nual for mounting instructions.	Power in Year 1	98%	98%	98%
Design load	d = Test load / 1.5 (safety factor)	Annual Degradation	0.25%	0.25%	0.25%
		Power in Year 25	92%	92%	92%
		See warranty docu	ments for de	etails. Cor	nditionsappl

Available from:

Founded in 1996, REC Group is an international pioneering solar energy company dedicated to empowering consumers with clean, affordable solar power. As Solar's Most Trusted, REC is committed to high quality, innovation, and a low carbon footprint in the solar materials and solar panels it manufactures. Headquartered in Norway with operational headquarters in Singapore, REC also has regional hubs in North America, Europe, and A sia-Pacific.





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CERTIFICATIONS	
IEC 61215:2016, IEC 6	51730:2016, UL 61730
IEC 62804	PID
IEC 61701	SaltMist
IEC 62716	Ammonia Resistance
UL 61730	Fire Type 2
IEC 62782	Dynamic Mechanical Load
IEC 61215-2:2016	Hailstone (35mm)
IEC 62321	Lead-free acc. to RoHS EU 863/2015
ISO 14001, ISO 9001,	IEC 45001, IEC 62941



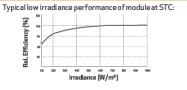
Declare.

TEMPERATURE RATINGS	
Nominal Module Operating Temperature:	44°C(±2°C)
Temperature coefficient of P _{MAX} :	-0.24 %/°C
Temperature coefficient of V _{oc} :	-0.24 %/°C
Temperature coefficient of I _{sc} :	0.04 %/°C
*The temperature coefficients state	ed are linear value:

DELIVERY INFORMATION

Panels per pallet: 33 Panels per 40 ft GP/high cube container: 858(26 pallets) Panels per 53 ft truck: 858 (26 pallets)

LOW LIGHT BEHAVIOUR



REC Solar PTE. LTD. 20 Tuas South Ave. 14 Singapore 637312 post@recgroup.com www.recgroup.com



	02/23/2024	ENPH								
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	REVISION DESCRIPTION:									
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Data Sheet Enphase Microinverters Region: AMERICAS

Enphase IQ 7X Microinverter

The high-powered smart grid-ready **Enphase IQ 7X Micro™** dramatically simplifies the installation process while achieving the highest system efficiency for systems with 96-cell modules.

Part of the Enphase IQ System, the IQ 7X Micro integrates with the Enphase IQ Envoy[™], Enphase IQ Battery[™], and the Enphase Enlighten[™] monitoring and analysis software.

The IQ Series Microinverters extend the reliability standards set forth by previous generations and undergo over a million hours of power-on testing, enabling Enphase to provide an industry-leading warranty of up to 25 years.

Easy to Install

- Lightweight and simple
- Faster installation with improved, lighter two-wire cabling
- · Built-in rapid shutdown compliant (NEC 2014 & 2017)

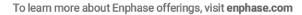
Efficient and Reliable

- Optimized for high powered 96-cell* modules
- Highest CEC efficiency of 97.5%
- More than a million hours of testing
- · Class II double-insulated enclosure
- UL listed

Smart Grid Ready

- Complies with advanced grid support, voltage and frequency ride-through requirements
- Remotely updates to respond to changing grid requirements
- Configurable for varying grid profiles
- Meets CA Rule 21 (UL 1741-SA)

* The IQ 7X is required to support 96-cell modules.



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ERTIFIED



Enphase IQ 7X Microinverter

INPUT DATA (DC)	IQ7X-96-2-US				
Commonly used module pairings ¹	320 W - 460 W +				
Module compatibility	96-cell PV modules				
Maximum input DC voltage	79.5 V				
Peak power tracking voltage	53 V - 64 V				
Operating range	25 V - 79.5 V				
Min/Max start voltage	33 V / 79.5 V				
Max DC short circuit current (module lsc)	10 A				
Overvoltage class DC port	11				
DC port backfeed current	0 A				
PV array configuration	1 x 1 ungrounded array; No additional DC side AC side protection requires max 20A per brand				
OUTPUT DATA (AC)	@ 240 VAC	@ 208			
Peak output power	320 VA				
Maximum continuous output power	315 VA				
Nominal (L-L) voltage/range ²	240 V / 211-264 V	208 V /			
Maximum continuous output current	1.31 A (240 VAC)	1.51 A			
Nominal frequency	60 Hz				
Extended frequency range	47 - 68 Hz				
AC short circuit fault current over 3 cycles	5.8 Arms				
Maximum units per 20 A (L-L) branch circuit ³	12 (240 VAC)	10 (208			
Overvoltage class AC port					
AC port backfeed current	18 mA				
Power factor setting	1.0				
Power factor (adjustable)	0.85 leading 0.85 lagging				
EFFICIENCY	@240 VAC	@208			
CEC weighted efficiency	97.5 %	97.0 %			
MECHANICAL DATA					
Ambient temperature range	-40°C to +60°C				
Relative humidity range	4% to 100% (condensing)				
Connector type (IQ7X-96-2-US)	MC4 (or Amphenol H4 UTX with option				
Dimensions (WxHxD)	212 mm x 175 mm x 30.2 mm (without				
Weight	1.08 kg (2.38 lbs)	Diacket			
Cooling	Natural convection - No fans				
Approved for wet locations	Yes				
	PD3				
Pollution degree					
Enclosure	Class II double-insulated, corrosion res	istant p			
Environmental category / UV exposure rating	NEMA Type 6 / outdoor				
FEATURES					
Communication	Power Line Communication (PLC)				
Monitoring	Enlighten Manager and MyEnlighten me Compatible with Enphase IQ Envoy	onitorin			
Disconnecting means	The AC and DC connectors have been evaluate disconnect required by NEC 690.				
Compliance	CA Rule 21 (UL 1741-SA) UL 62109-1, UL1741/IEEE1547, FCC Par CAN/CSA-C22.2 NO. 107.1-01 This product is UL Listed as PV Rapid S NEC-2017 section 690.12 and C22.1-20 and DC conductors, when installed acc	hut Do 15 Rule			

No enforced DC/AC ratio. See the compatibility calculator at <u>https://enphase.com/en-us/support/module-com</u>
 Nominal voltage range can be extended beyond nominal if required by the utility.
 Limits may vary. Refer to local requirements to define the number of microinverters per branch in your area.

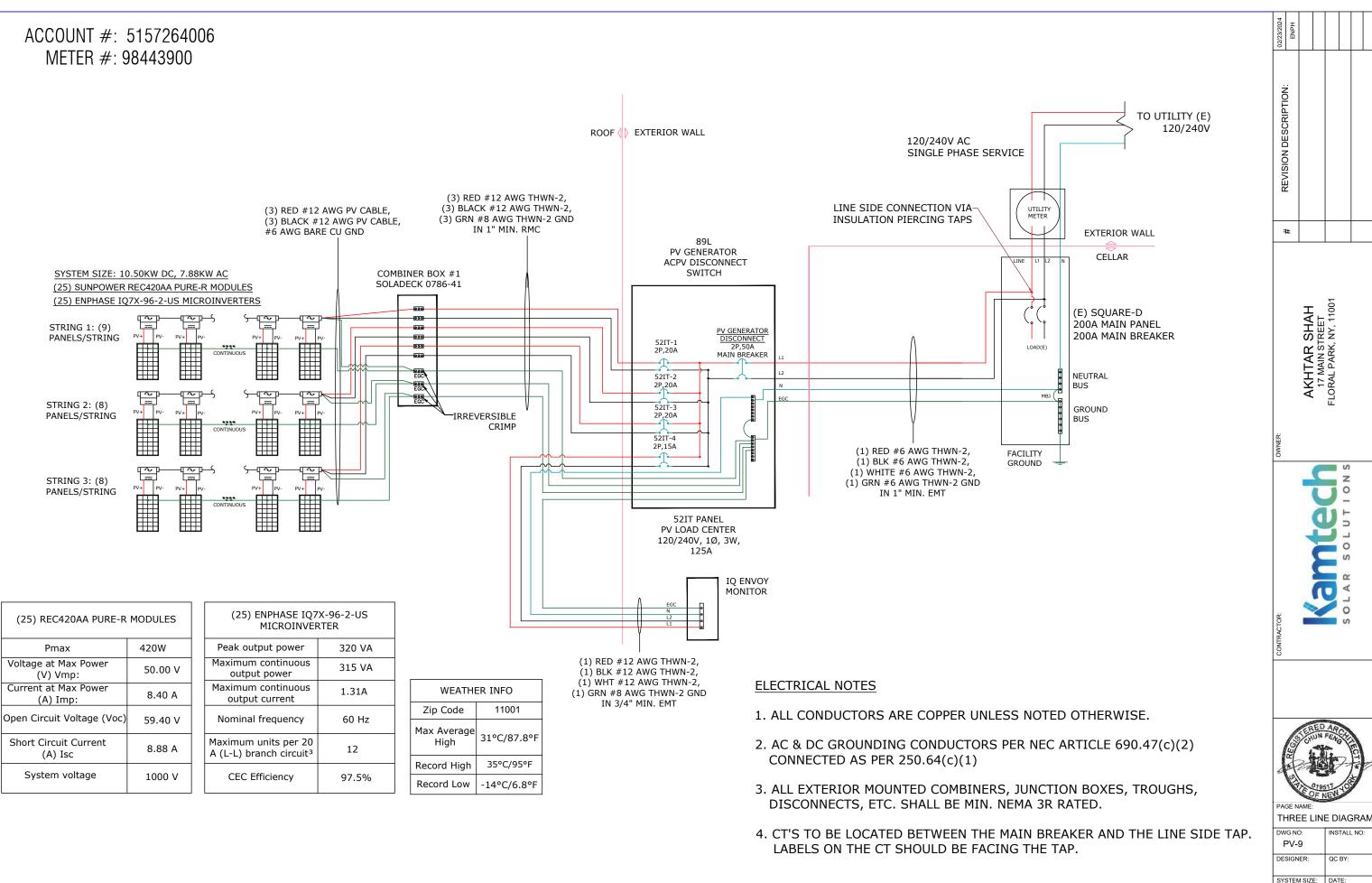
To learn more about Enphase offerings, visit enphase.com

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	02/23/2024 ENPH			
	REVISION DESCRIPTION:			
rotection required; a circuit /AC	#			
83-229 V 208 VAC) VAC)		AKHTAR SHAH 17 MAIN STREET	.RK, NY, 11001	
			FLORAL PA	
AC				
	OWNER:			
C-5 adapter)	0	470	IT ION S	
blymeric enclosure		t	SOLUT	
options I and approved by UL for use as the load-break	CONTRACTOR:		OLAR	
	00		N	
s B, ICES-0003 Class B, n Equipment and conforms with NEC-2014 and 4-218 Rapid Shutdown of PV Systems, for AC aanufacturer's instructions.				
	PAGE NAME: SPEC SHEET DWG NO: PV-8.1 DESIGNER: 02 BY: SYSTEM SIZE: 10.50 KW 02/23/2024			

METER #: 98443900



10.50 KW

02/23/2024