

ZONING BOARD OF APPEALS APPLICATION

Project Name, If Applicable: Joseph Kochansky (homeowner)

Project Street Address: 21 Crows Nest Rd, Bronxville, NY 10708

Section: 6.1 Block: 1 Lot(s): 15 Zone: \_\_\_\_\_

Applicant: Michael Miele, PE

Address: 705 Oris Mills Rd

City: New Windsor State: NY Zip: 12553

Phone #: 845-629-9693 Email: NYPSEngineer@gmail.com

Owner: Joseph Kochansky

Address: 21 Crows Nest Rd.

City: Bronxville State: NY Zip: 10708

Phone #: 212-361-9690 Email: Jodi.Kochansky@gmail.com

Application is for:

\_\_\_\_\_ An interpretation of the Zoning Law or a determination by the Superintendent of Buildings

Area variance(s) Section 310-22F - Solar Energy Systems  
List Sections

\_\_\_\_\_ Use Variance \_\_\_\_\_  
List Sections

\_\_\_\_\_ Special Permit Use \_\_\_\_\_  
List Sections

Description of the proposed project and nature of the interpretation, variance(s) and/or special permit being sought: Project is for the proposed installation of a 21.09kW

Rooftop Solar System. This application is seeking relief from  
Village code section 310-22F Solar Energy Systems more  
specifically (A) Panels located off front of house (B) more  
than 33% of 900 sq ft of Roof surface covered

When did present owner acquire title? NA

Was the title acquired by purchase: (  Yes or No ), If so from whom? \_\_\_\_\_

Are you seeking a variance from the provisions of the ordinance? (  Yes or No )

If so, from which ordinance, from which provision thereof and to what extent? \_\_\_\_\_

Village code 310.22F - Solar Energy Systems

① Panels located on front Roof

② Panels will be > 33% or 900<sup>sq</sup> Roof Area

If you are seeking a variance from the provisions of the ordinance, do you contend that the effect of the ordinance on the property to which this appeal pertains is different from its effect on other properties in the same zoning district? (  Yes or No ) If so, in what respect and what is the cause of the difference?

this Variance is relatively specific to this property due to the orientation of the house, the front of the house faces South/East, a system cannot be installed on the back and achieve any worthwhile production.

Does the owner of the premises involved in this application own any contiguous property? (Yes or  No)

If so, in what respect and what is the cause of the difference? \_\_\_\_\_

Owners Signature: \* See owner's Proxy Date: —

### Zoning Compliance Analysis

Property Address: 21 Crows Nest Rd

Zoning District: AA - one family Residence

Flood Zone: Yes:  No:

ZONING STANDARD	REQUIRED	EXISTING	PROPOSED	STATUS
BUILDING USE				
LOT AREA				
LOT WIDTH				
LOT DEPTH				
FRONT YARD				
SIDE YARD #1				
SIDE YARD #2				
REAR YARD				
HEIGHT (Feet & Stories)				
BUILDING COVERAGE				
USABLE OPEN SPACE				
F.A.R.				
PARKING				

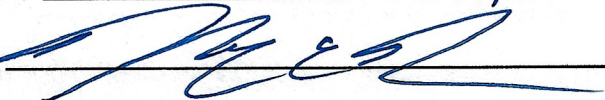
All applications for additions to submit complete detailed finished grade and FAR calculations, and completed F.A.R. computation worksheet on reverse, submission to be stamped by the design professional of record.

Are any variances required (or were any variances approved by the ZBA) that are not listed on the table above?  Yes  No

If yes, describe all additional variances: Solar Panels on front of house and  
Solar Panels > 33% or 900 sq Roof Area - Section 310-22F

Form Prepared By:

Name (Print): Michael E. Miele, PE

Signature: 

**Zoning F.A.R. Calculation**

	<b>EXISTING</b>	<b>PROPOSED</b>	<b>SUB TOTAL</b>
BASEMENT <sup>(b)</sup>			
1 <sup>ST</sup> FLOOR			
2 <sup>ND</sup> FLOOR			
3 <sup>RD</sup> FLOOR <sup>(d)</sup>			
ATTIC <sup>(d)</sup>			
GARAGE <sup>(c)</sup>			
Existing FAR			
Proposed FAR			
% Increase of FAR			
<b>ACTUAL TOTAL BUILDING FLOOR AREA =</b>			
<b>ACTUAL LOT AREA =</b>			
<b>PERMITTED F.A.R. (From Table, interpolate if necessary) =</b>			
<b>MAXIMUM PERMITTED BUILDING FLOOR AREA (ACTUAL LOT AREA X PERMITTED F.A.R). =</b>			

**\*\*\*Please refer to the Village of Bronxville Municipal Code Section 310- 22  
Supplementary Regulations.**

Calculations Prepared By: Name (Print): Michael E. Miele, PE

Signature:  \_\_\_\_\_

VILLAGE OF BRONXVILLE

Department of Buildings  
200 Pondfield Road  
(914) 337-7338  
(914) 337-0158 (Fax)

**PLAN REVIEW COMMENTS**

**APPLICATION NUMB:** ALT 188-21  
**DATE RECEIVED:** October 4, 2021  
**LOCATION:** 21 Crows Nest Rd  
**SBL:** 6.J/1/15  
**APPLICANT NAME:** Long Island Power Solutions  
**APPLICANT ADDRESS:** 2060 Ocean Avenue  
Rankonkoma, NY 11779  
**DESCRIPTION OF WORK :** Installation of a 21.09kw roof mounted solar system consisting of 57 LG370W panels and 57 enphase IQ7 & microinverters.

**DISAPPROVED October 15, 2021, FOR THE FOLLOWING:**

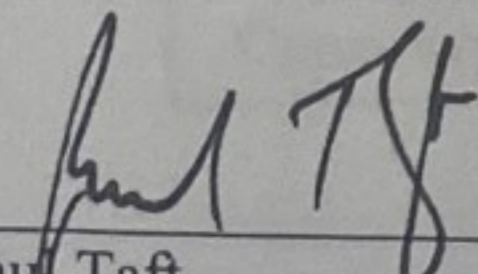
Your revised application for a permit on the above location has been reviewed and a permit may not be issued at this time for the reasons indicated below.

**ZONING CODE REVIEW** (Section Numbers refer to Village Code of 1981)

Zoning review -

- 1) show compliance with the Village of Bronxville Municipal Code - 310-22F <https://ecode360.com/9450777>
- 2) Proposed panels appear to be non-integrated panels ( see definition)
- 3) Rear and side facing roof is location of panels - complies
- 4) Shall not exceed the lesser of 900 square feet in area or 33% of the area of the plane of the roof on which the equipment is mounted. application does not detail this, it appears not to comply.

This document constitutes a final administrative determination by the Building Inspector denying your application for the reasons set forth above. Section 7-712(a) of the New York State Village Law provides that any appeal of this decision must be filed within 60 days of the date hereof with the Zoning Board of Appeals of the Village of Bronxville.

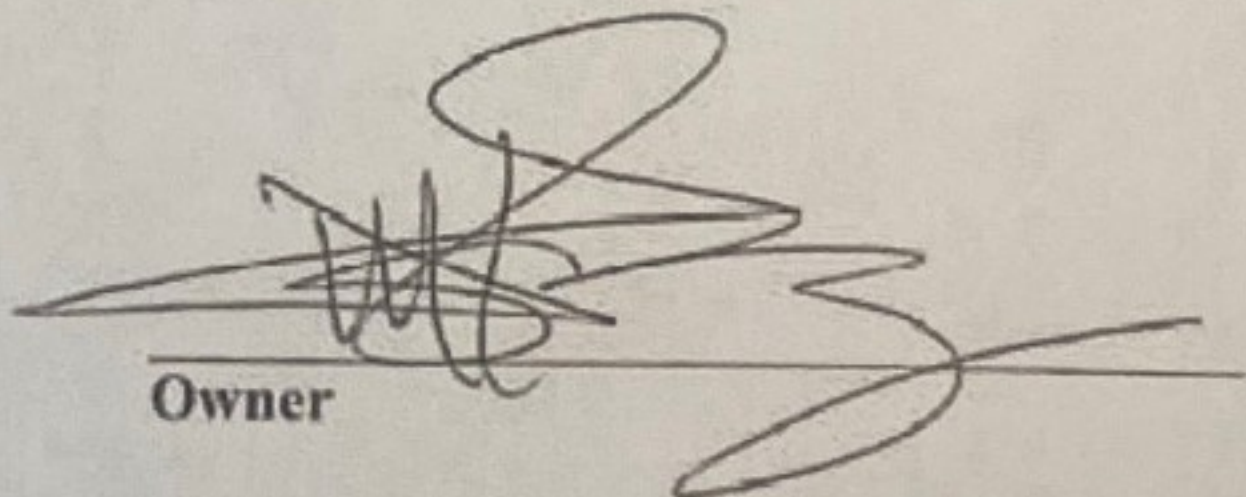
  
\_\_\_\_\_  
Paul Taft  
Building Inspector

State of New York  
County of \_\_\_\_\_

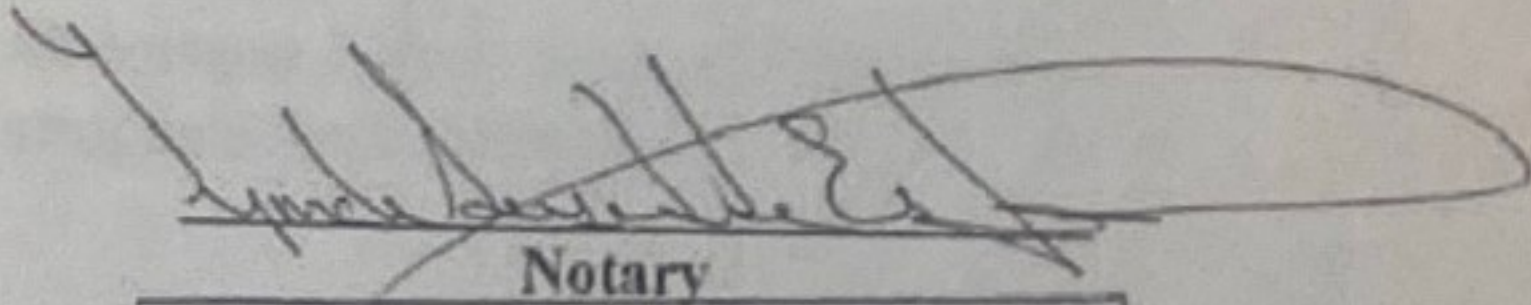
**OWNER AUTHORIZATION AFFIDAVIT**

Premise: 21 Crows Nest Rd, <sup>Bronxville</sup> ~~Bronxville~~ J.S., NY 10708  
Section: 6.1 Block: 1 Lot: 15

I, JOSEPH M. KOCHANESKY, am the owner of the above stated premise and hereby authorize Michael Miele of **Michael E. Miele, PE (Owner.)**, with its office at 705 Orrs Mills Road, New Windsor, NY 12553, to act as our authorized agent for the purpose of accessing town records, submitting permit applications, meeting and/or discussing the project with municipality representatives, receiving building/electrical permits, and closing out permits on my behalf.

  
Owner

Sworn to before me this 21<sup>st</sup>  
Day of August 2021

  
Notary

LYNDE SUSETTE ESTABROOKE  
NOTARY PUBLIC, STATE OF NEW YORK  
Registration No. 01ES6259997  
Qualified in Dutchess County  
Commission Expires April 16, 2024

January 18<sup>th</sup> , 2021

Village of Bronxville  
Bronxville Zoning Board  
200 Pondfield Rd  
Bronxville, NY 10708

Re: Joseph Kochansky - 21 Crows Nest Rd, Bronxville, NY 10708  
Single Family Residence, Rooftop Solar Installation  
Village of Bronxville, County of Westchester, State of New York

Dear Zoning Board,

I am a neighbor of the above referenced property. I have reviewed the plans prepared by Michael E. Miele, PE for the installation of rooftop solar at the residence of Joseph Kochansky located at 21 Crows Nest Road, Bronxville, NY 10708.

I do **NOT** have any issue with Mr. Kochansky installing solar panels on his roof and I am for this progressive, energy conscious amendment to his property. I hope you consider these comments when making your decision and approve this project on the January 25<sup>th</sup> Zoning Board Meeting.

Thank you for your consideration,

TIM AND JILL WHIPPLE

Name

Signature

14 VILLAGE LANE

Address

**VARIANCE INFORMATION**

**PROPOSED ROOF COVERAGE:**

ROOF R2: 394/592 - 66.6%  
 ROOF R4: 197/464 - 42.5%  
 ROOF R6: 487/690 - 70.6%  
 ROOF R7: 039/108 - 36.1%  
 ALLOWED – 900 SF MAX OR 33% OF AREA OF PLANE OF ROOF;  
 PROPOSED - X SQUARE FEET/ OR X PERCENTAGE;  
 VARIANCE REQUESTED – Y SQUARE FEET/ OR Y PERCENTAGE

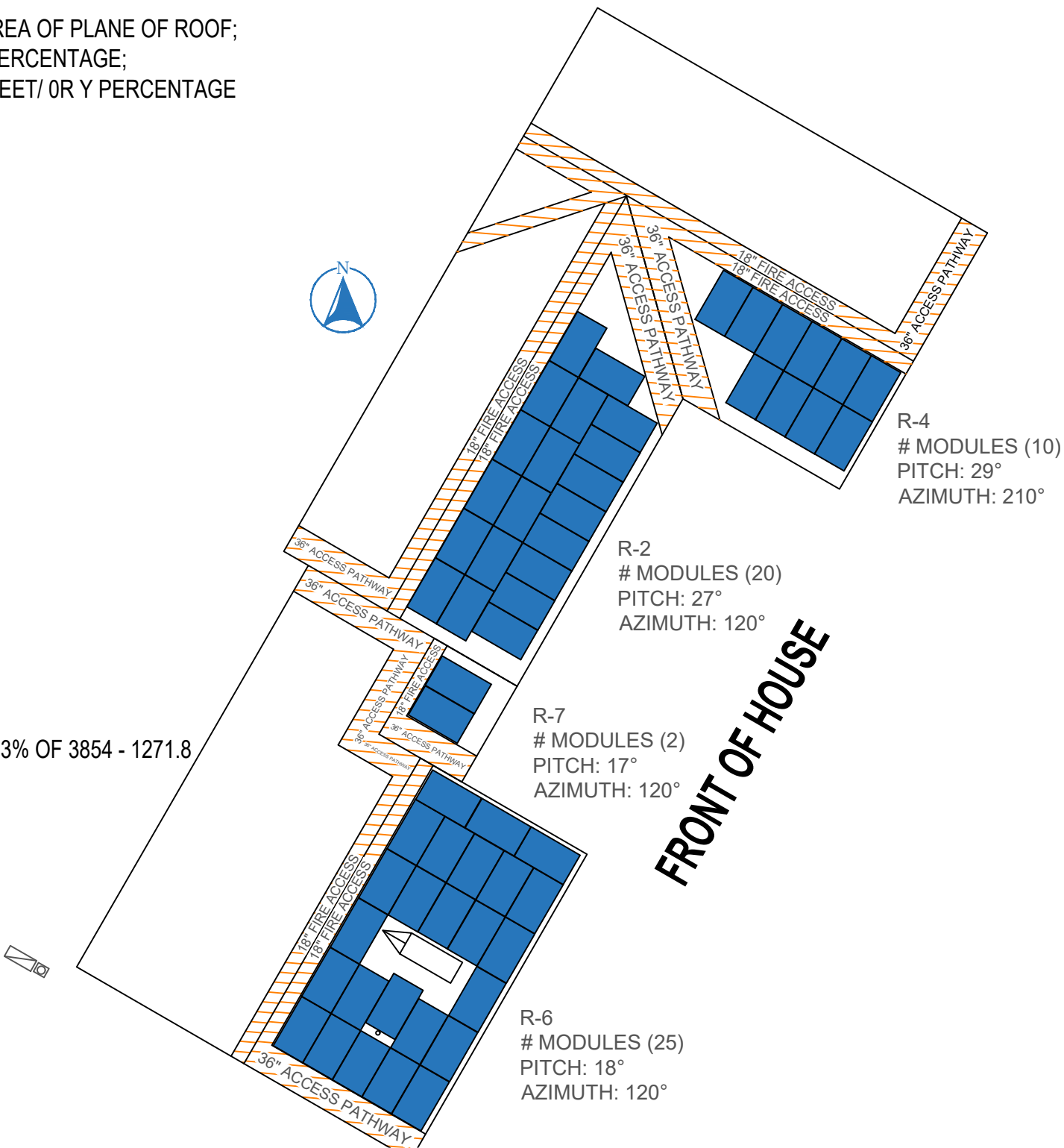
**R2**  
 ALLOWED : 33% OF 592 - 195.4  
 PROPOSED : 66.6% - 394  
 VARIANCE REQUESTED : 33.6% - 198.6

**R4**  
 ALLOWED : 33% OF 464 - 153.1  
 PROPOSED : 42.5% - 197  
 VARIANCE REQUESTED : 09.5% - 043.9

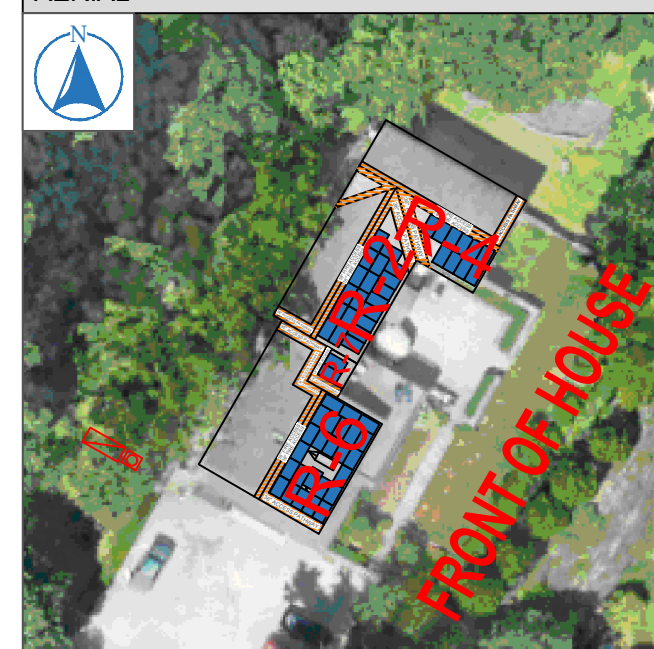
**R6**  
 ALLOWED : 33% OF 690 - 227.7  
 PROPOSED : 70.6% - 487  
 VARIANCE REQUESTED : 37.6% - 259.3

**R7**  
 ALLOWED : 33% OF 108 - 035.6  
 PROPOSED : 36.1% - 039  
 VARIANCE REQUESTED : 03.1% - 004.6

TOTAL ROOF COVERAGE ALLOWED : 33% OF 3854 - 1271.8  
 PROPOSED : 29.0% - 1117



**AERIAL**



**SHEET INDEX**

- S-1 SITE PLAN
- S-2 DETAILS
- E-1 ELECTRICAL PLAN
- L-1 MOUNTING PLAN

**GENERAL NOTES**

- ENPHASE IQ7 PLUS MICRO INVERTER LOCATED ON ROOF BEHIND EACH MODULE.
- FIRST RESPONDER ACCESS MAINTAINED AND FROM ADJACENT ROOF.
- WIRE RUN FROM ARRAY TO CONNECTION IS 40 FEET.
- COGEN DISCONNECT IS LOCATED ADJACENT TO UTILITY METER.
- LAYOUT SUBJECT TO CHANGE BASED ON SITE CONDITIONS AT DATE OF INSTALL

**LEGEND**

- GROUND ACCESS POINT
- COGEN DISCONNECT
- UTILITY METER

50 MAIN STREET. #1000,  
 WHITE PLAINS, NY 10606  
 (914) 719-7786

**KOCHANSKY RESIDENCE**

21 CROWS NEST ROAD  
 BRONXVILLE, NY 10708  
 VILLAGE OF BRONXVILLE  
 S: 6.1 B: 1 L: 15

**PROJECT DATA: #214729**  
 INVERTER: (57) ENPHASE IQ7PLUS-72-US  
 MODULES: (57) LG370N1K-A6  
 RACKING: IRON RIDGE XR100  
 WATTAGE: 21,090  
 ROOF TYPE: COMPOSITION SHINGLES  
 WIND LOAD: -.33 & -18 PSF @ 130MPH  
 FASTENER: USE 5/16" DIA. 5" LAGS



**MICHAEL E. MIELE, PE**  
 Licensed Professional Engineer  
 705 Orrs Mills Road  
 New Windsor, NY 12553  
 TELEPHONE: (845) 629.9693  
 EMAIL: MieleEngineering@gmail.com



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 CHECKED BY: MEM  
 REVISIONS:  
 2/05/2022 VARIANCE INFO

REPRESENTS ALL FIRE CLEARANCE INCLUDING ALTERNATIVE METHODS

FIRST RESPONDER ACCESS  
 MINIMUM OF 36" UNOBSTRUCTED AS PER  
 THE 2020 RESIDENTIAL CODE OF NYS

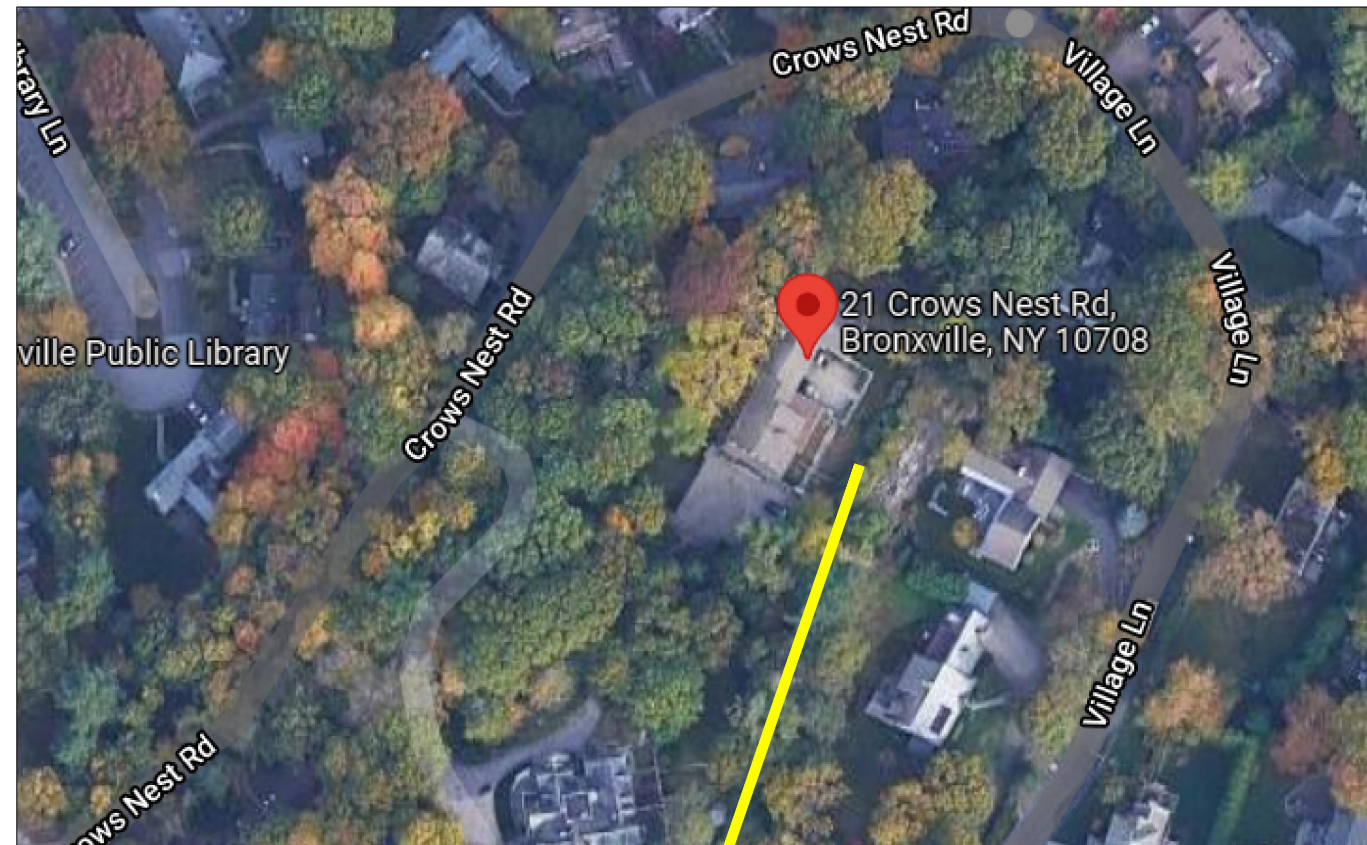
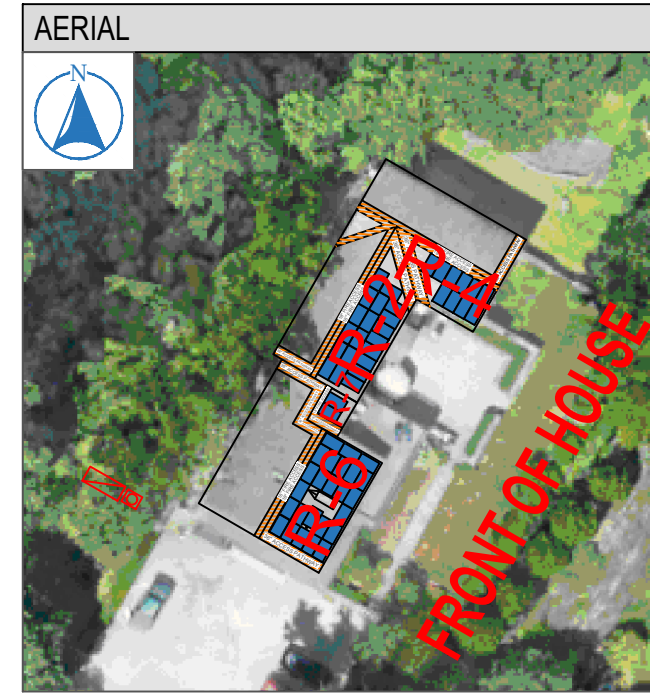
2020 RESIDENTIAL CODE OF NEW YORK STATE, 2020 ENERGY CONSERVATION CODE OF NEW YORK STATE,  
 VILLAGE OF BRONXVILLE CODE, 2017 NATIONAL ELECTRIC CODE. ASCE7-16.

SITE PLAN **S-1**





FRONT OF HOUSE, PANELS ARE LOCATED ON REAR OF HOUSE, NOT VISIBLE FROM STREET



WITH EXISTING VEGETATION, PANELS NOT VISABLE FROM NEIGHBORS



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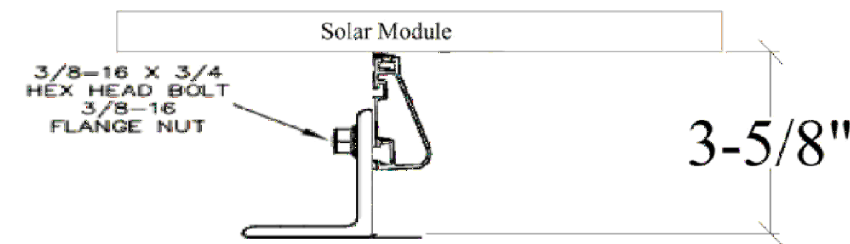
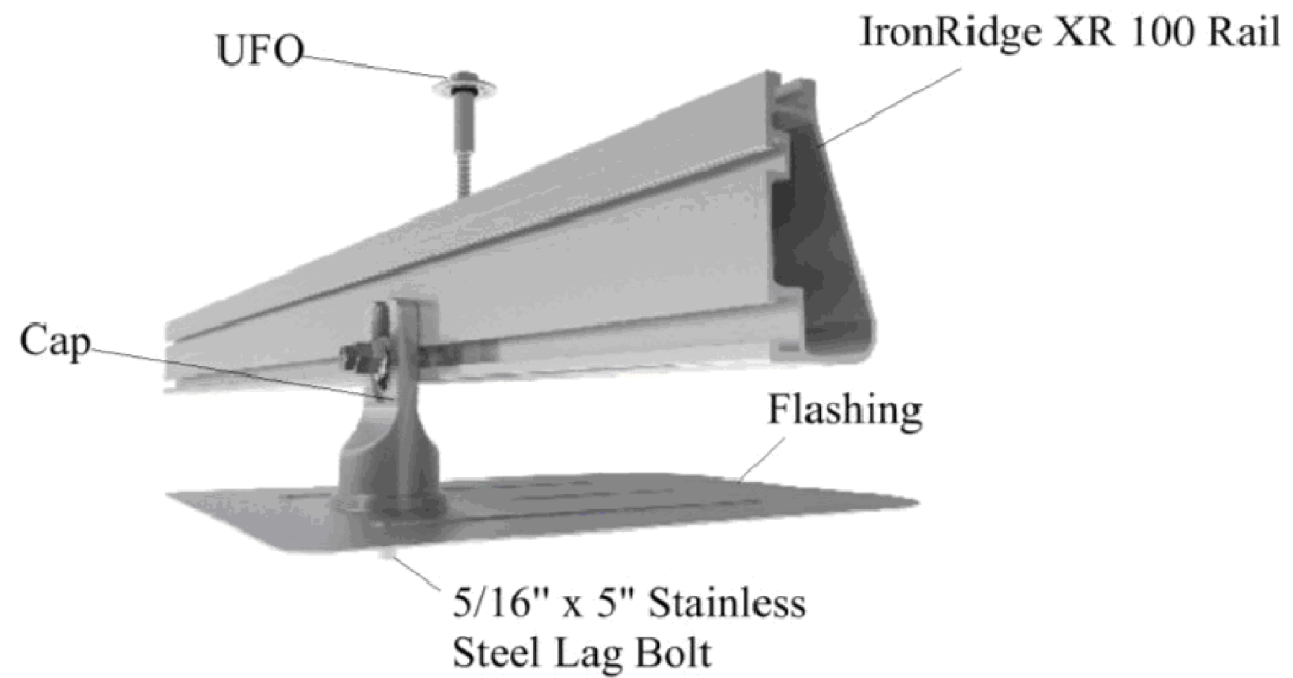
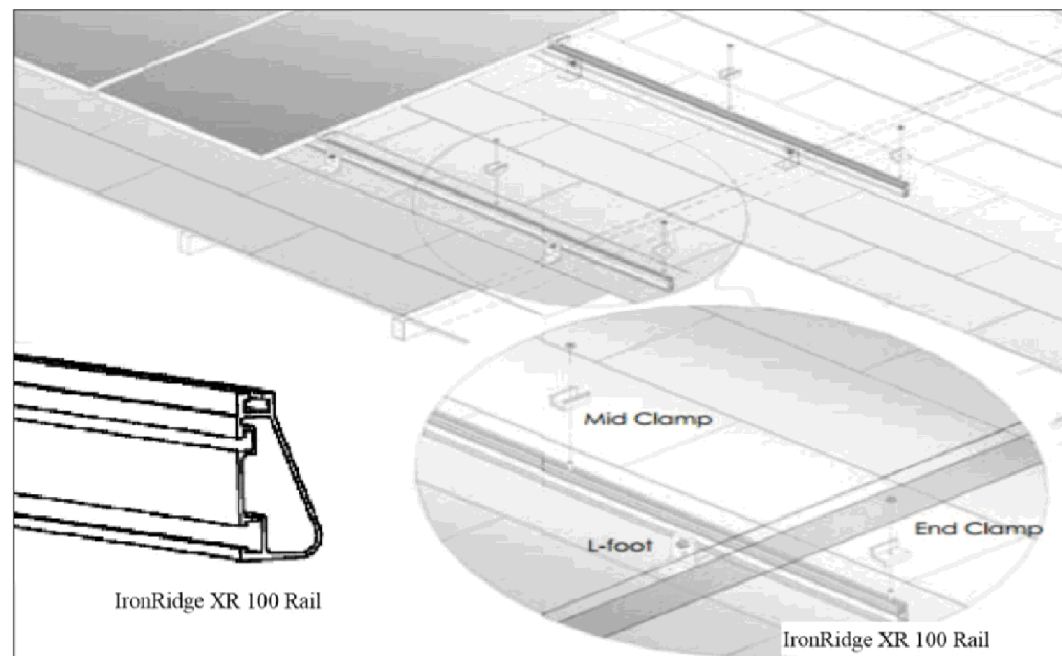
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ELEVATION

**EV-1**



**GENERAL NOTES:**

- L FEET ARE SECURED TO ROOF RAFTERS @ 80" O.C.
- USING 5/16" x 5" STAINLESS STEEL LAG BOLTS.
- SUBJECT ROOF HAS 1 LAYER.
- ALL PENETRATIONS ARE SEALED AND FLASHED.

ROOF	PITCH	RIDGE	RAFTERS	LENGTH	OVERHANG	NOTES
2	27°	2"x12"	2"x10"@16"O.C.	15'-8"	18"	
4	29°	2"x12"	2"x12"@16"O.C.	14'-4"	18"	
6	18°	2"x12"	2"x12"@16"O.C.	19'-2"	18"	
7	17°	2"x12"	2"x10"@16"O.C.	12'-1"	18"	

DESIGNED AS PER ASCE 7-10  
 MODULES MOUNTED FLUSH TO ROOF  
 NO HIGHER THAN 6" ABOVE ROOF SURFACE

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DETAILS

**S-2**



50 MAIN STREET. #1000,  
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ELECTRICAL PLAN

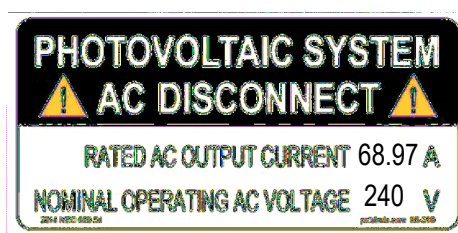
E-1

PHOTOVOLTAICS:  
(57) LG370N1K-A6  
INVERTERS:  
(57) ENPHASE IQ7PLUS-72-2-US  
CIRCUITS:  
(2) CIRCUITS OF (12) MODULES  
(3) CIRCUITS OF (11) MODULES

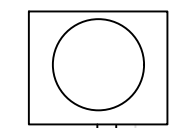
NEMA 3R  
JUNCTION BOX  
BLACK - L1  
RED - L2  
WHITE - NEUTRAL  
GREEN - GROUND

ENGAGE CABLE

#12 AWG THWN FOR HOME RUNS UNDER 100'  
#10 AWG THWN FOR HOME RUNS OVER 100'  
(1) LINE 1  
(1) LINE 2  
(1) NEUTRAL  
(1) GROUND  
PER CIRCUIT  
IN 1" OR 1 1/4" PVC CONDUIT



METER  
ACCT#: 52-2216-0170-0004-4  
METER#: 11022683



LINE SIDE TAP

MAIN SERVICE  
200A  
AC DISTRIBUTION PANEL  
OR SUB PANEL

100A FUSED SERVICE  
RATED DISCONNECT  
90A FUSE

125A LOAD CENTER  
(1) - 20A BREAKER  
PER CIRCUIT  
DISCONNECT

#4 AWG THWN  
(1) LINE 1  
(1) LINE 2  
(1) NEUTRAL  
(1) EGC  
IN 1 1/4" PVC CONDUIT

#4 AWG THWN  
(1) LINE 1  
(1) LINE 2  
(1) NEUTRAL  
(1) EGC  
(1) GEC  
IN 1 1/4" PVC CONDUIT



AC COMBINER:  
1-PHASE, MAIN LUG LOAD CENTER, 125A

NOTE:  
ALL WIRING TO MEET THE 2017 NEC AND 2020 ENERGY CODE  
100A FUSED SERVICE RATED DISCONNECT

2020 RESIDENTIAL CODE OF NEW YORK STATE, 2020 ENERGY CONSERVATION CODE OF NEW YORK STATE,  
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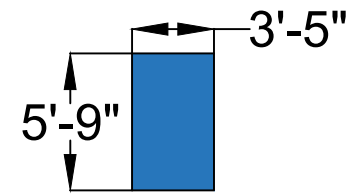
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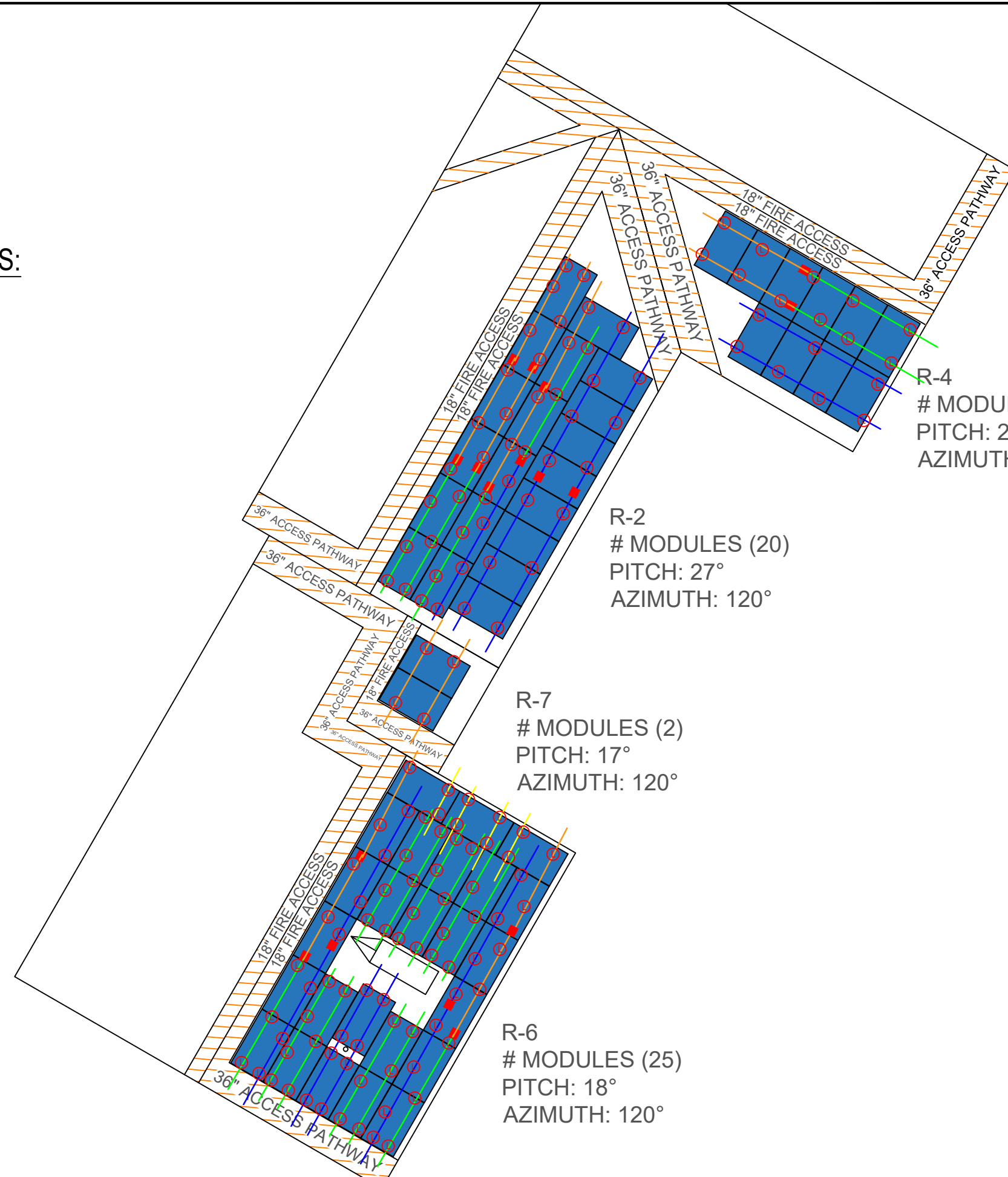
MOUNTING PLAN

**L-1**



**LG370N1K-A6**  
**PANEL DIMENSIONS:**

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



**R-4**  
# MODULES (10)  
PITCH: 29°  
AZIMUTH: 210°

**R-2**  
# MODULES (20)  
PITCH: 27°  
AZIMUTH: 120°

**R-7**  
# MODULES (2)  
PITCH: 17°  
AZIMUTH: 120°

**R-6**  
# MODULES (25)  
PITCH: 18°  
AZIMUTH: 120°

- 17' ————— 10
- 14' ————— 20
- 11' ————— 14
- 7' ————— 0
- 4' ————— 0
- SPLICE BAR 17
- ⊙ PENETRATIONS 162
- UFO 140
- 40MM SLEEVE 56
- END CAPS 56
- CONSUMPTION
- CRITTER GUARD 330'



### Built for solar's toughest roofs.

IronRidge builds the strongest roof mounting system 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.



#### PE Certified

Pre-stamped engineering letters available in most states.



#### Class A Fire Rating

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



#### Design Software

Online tool generates a complete bill of materials in minutes.



#### Integrated Grounding

UL 2703 system eliminates separate module grounding components.



#### 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 & black anod. finish

### XR100 Rail



The ultimate residential solar mounting rail.

- 8' spanning capability
- Heavy load capability
- Clear & black anod. finish

### XR1000 Rail



A heavyweight mounting rail for commercial projects.

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

### Internal Splices



All rails use internal splices for seamless connections.

- Self-tapping screws
- Varying versions for rails
- Grounding Straps offered

## Attachments

### FlashFoot



Anchor, flash, and mount with all-in-one attachments.

- Ships with all hardware
- IBC & IRC compliant
- Certified with XR Rails

### Slotted L-Feet



Drop-in design for rapid rail attachment.

- High-friction serrated face
- Heavy-duty profile shape
- Clear & black anod. finish

### Standoffs



Raise flush or tilted systems to various heights.

- Works with vent flashing
- Ships pre-assembled
- 4" and 7" Lengths

### Tilt Legs



Tilt assembly to desired angle, up to 45 degrees.

- Attaches directly to rail
- Ships with all hardware
- Fixed and adjustable

## Clamps & Grounding

### End Clamps



Slide in clamps and secure modules at ends of rails.

- Mill finish & black anod.
- Sizes from 1.22" to 2.3"
- Optional Under Clamps

### Grounding Mid Clamps



Attach and ground modules in the middle of the rail.

- Parallel bonding T-bolt
- Reusable up to 10 times
- Mill & black stainless

### T-Bolt Grounding Lugs



Ground system using the rail's top slot.

- Easy top-slot mounting
- Eliminates pre-drilling
- Swivels in any direction

### Accessories



Provide a finished and organized look for rails.

- Snap-in Wire Clips
- Perfected End Caps
- UV-protected polymer

## Free Resources



### Design Assistant

Go from rough layout to fully engineered system. For free.

[Go to IronRidge.com/rm](http://IronRidge.com/rm)



### NABCEP Certified Training

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

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# Enphase IQ 7 and IQ 7+ Microinverters

The high-powered smart grid-ready **Enphase IQ 7 Micro™** and **Enphase IQ 7+ Micro™** dramatically simplify the installation process while achieving the highest system efficiency.

Part of the Enphase IQ System, the IQ 7 and IQ 7+ Microinverters integrate with the Enphase IQ Envoy™, Enphase IQ Battery™, and the Enphase Enlighten™ monitoring and analysis software.

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)

## Productive and Reliable

- Optimized for high powered 60-cell and 72-cell\* modules
- 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 7+ Micro is required to support 72-cell modules.



# Enphase IQ 7 and IQ 7+ Microinverters

INPUT DATA (DC)	IQ7-60-2-US / IQ7-60-B-US		IQ7PLUS-72-2-US / IQ7PLUS-72-B-US	
Commonly used module pairings <sup>1</sup>	235 W - 350 W +		235 W - 440 W +	
Module compatibility	60-cell PV modules only		60-cell and 72-cell PV modules	
Maximum input DC voltage	48 V		60 V	
Peak power tracking voltage	27 V - 37 V		27 V - 45 V	
Operating range	16 V - 48 V		16 V - 60 V	
Min/Max start voltage	22 V / 48 V		22 V / 60 V	
Max DC short circuit current (module I <sub>sc</sub> )	15 A		15 A	
Overvoltage class DC port	II		II	
DC port backfeed current	0 A		0 A	
PV array configuration	1 x 1 ungrounded array; No additional DC side protection required; AC side protection requires max 20A per branch circuit			
OUTPUT DATA (AC)	IQ 7 Microinverter		IQ 7+ Microinverter	
Peak output power	250 VA		295 VA	
Maximum continuous output power	240 VA		290 VA	
Nominal (L-L) voltage/range <sup>2</sup>	240 V / 211-264 V	208 V / 183-229 V	240 V / 211-264 V	208 V / 183-229 V
Maximum continuous output current	1.0 A (240 V)	1.15 A (208 V)	1.21 A (240 V)	1.39 A (208 V)
Nominal frequency	60 Hz		60 Hz	
Extended frequency range	47 - 68 Hz		47 - 68 Hz	
AC short circuit fault current over 3 cycles	5.8 Arms		5.8 Arms	
Maximum units per 20 A (L-L) branch circuit <sup>3</sup>	16 (240 VAC)	13 (208 VAC)	13 (240 VAC)	11 (208 VAC)
Overvoltage class AC port	III		III	
AC port backfeed current	0 A		0 A	
Power factor setting	1.0		1.0	
Power factor (adjustable)	0.7 leading ... 0.7 lagging		0.7 leading ... 0.7 lagging	
EFFICIENCY	@240 V	@208 V	@240 V	@208 V
Peak CEC efficiency	97.6 %	97.6 %	97.5 %	97.3 %
CEC weighted efficiency	97.0 %	97.0 %	97.0 %	97.0 %
MECHANICAL DATA				
Ambient temperature range	-40°C to +65°C			
Relative humidity range	4% to 100% (condensing)			
Connector type (IQ7-60-2-US & IQ7PLUS-72-2-US)	MC4 (or Amphenol H4 UTX with additional Q-DCC-5 adapter)			
Connector type (IQ7-60-B-US & IQ7PLUS-72-B-US)	Friends PV2 (MC4 intermateable). Adaptors for modules with MC4 or UTX connectors: - PV2 to MC4: order ECA-S20-S22 - PV2 to UTX: order ECA-S20-S25			
Dimensions (WxHxD)	212 mm x 175 mm x 30.2 mm (without bracket)			
Weight	1.08 kg (2.38 lbs)			
Cooling	Natural convection - No fans			
Approved for wet locations	Yes			
Pollution degree	PD3			
Enclosure	Class II double-insulated, corrosion resistant polymeric enclosure			
Environmental category / UV exposure rating	NEMA Type 6 / outdoor			
FEATURES				
Communication	Power Line Communication (PLC)			
Monitoring	Enlighten Manager and MyEnlighten monitoring options. Both options require installation of an Enphase IQ Envoy.			
Disconnecting means	The AC and DC connectors have been evaluated and approved by UL for use as the load-break disconnect required by NEC 690.			
Compliance	CA Rule 21 (UL 1741-SA) UL 62109-1, UL1741/IEEE1547, FCC Part 15 Class B, ICES-0003 Class B, CAN/CSA-C22.2 NO. 107.1-01 This product is UL Listed as PV Rapid Shut Down Equipment and conforms with NEC-2014 and NEC-2017 section 690.12 and C22.1-2015 Rule 64-218 Rapid Shutdown of PV Systems, for AC and DC conductors, when installed according manufacturer's instructions.			

1. No enforced DC/AC ratio. See the compatibility calculator at <https://enphase.com/en-us/support/module-compatibility>.

2. Nominal voltage range can be extended beyond nominal if required by the utility.

3. Limits may vary. Refer to local requirements to define the number of microinverters per branch in your area.

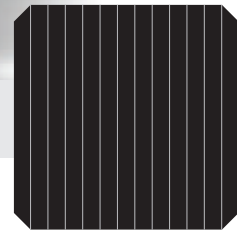
To learn more about Enphase offerings, visit [enphase.com](https://enphase.com)





# LG NeON<sup>®</sup> 2 Black

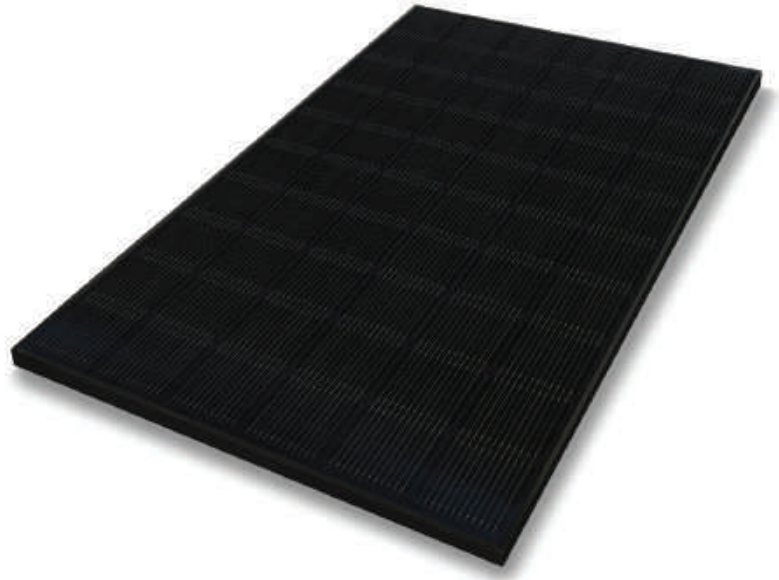
LG370N1K-A6



60

## 370W

The LG NeON<sup>®</sup> 2 is LG's best selling solar module and one of the most powerful and versatile modules on the market today. The cells are designed to appear all-black at a distance, and the performance warranty guarantees 90.6% of labeled power output at 25 years.



## Features



### Enhanced Performance Warranty

LG NeON<sup>®</sup> 2 Black has an enhanced performance warranty. After 25 years, LG NeON<sup>®</sup> 2 Black is guaranteed at least 90.6% of initial performance.



### 25-Year Limited Product Warranty

The NeON<sup>®</sup> 2 Black is covered by a 25-year limited product warranty. In addition, up to \$450 of labor costs will be covered in the rare case that a module needs to be repaired or replaced.



### Solid Performance on Hot Days

LG NeON<sup>®</sup> 2 Black performs well on hot days due to its low temperature coefficient.



### Roof Aesthetics

LG NeON<sup>®</sup> 2 Black has been designed with aesthetics in mind using thinner wires that appear all black at a distance.

When you go solar, ask for the brand you can trust: LG Solar

### About LG Electronics USA, Inc.

LG Electronics is a global leader in electronic products in the clean energy markets by offering solar PV panels and energy storage systems. The company first embarked on a solar energy source research program in 1985, supported by LG Group's vast experience in the semi-conductor, LCD, chemistry and materials industries. In 2010, LG Solar successfully released its first MonoX<sup>®</sup> series to the market, which is now available in 32 countries. The NeON<sup>®</sup> (previous MonoX<sup>®</sup> NeON), NeON<sup>®</sup>2, NeON<sup>®</sup>2 BiFacial won the "Intersolar AWARD" in 2013, 2015 and 2016, which demonstrates LG's leadership and innovation in the solar industry.



## LG370N1K-A6

### General Data

Cell Properties (Material/Type)	Monocrystalline/N-type
Cell Maker	LG
Cell Configuration	60 Cells (6 x 10)
Number of Busbars	12EA
Module Dimensions (L x W x H)	1,740mm x 1,042mm x 40 mm
Weight	18.6 kg
Glass (Material)	Tempered Glass with AR coating
Backsheet (Color)	Black
Frame (Material)	Anodized Aluminium
Junction Box (Protection Degree)	IP 68 with 3 Bypass Diodes
Cables (Length)	1,100mm x 2EA
Connector (Type/Maker)	MC 4/MC

### Certifications and Warranty

Certifications*	IEC 61215-1/-1-1/2 : 2016, IEC 61730-1/2 : 2016, UL 61730-1 : 2017, UL 61730-2 : 2017 ISO 9001, ISO 14001, ISO 50001 OHSAS 18001
Salt Mist Corrosion Test	IEC 61701:2012 Severity 6
Ammonia Corrosion Test	IEC 62716:2013
Module Fire Performance	Type 2 (UL 61730)
Fire Rating	Class C (UL 790, ULC/ORD C 1703)
Solar Module Product Warranty	25 Year Limited
Solar Module Output Warranty	Linear Warranty*

\*Improved: 1<sup>st</sup> year 98.5%, from 2-24th year: -0.33%/year down, 90.6% at year 25

### Temperature Characteristics

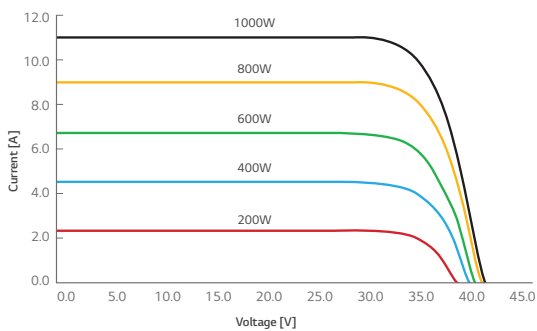
NMOT*	[°C]	42 ± 3
P <sub>max</sub>	[%/°C]	-0.35
V <sub>oc</sub>	[%/°C]	-0.26
I <sub>sc</sub>	[%/°C]	0.03

\*NMOT (Nominal Module Operating Temperature): Irradiance 800 W/m<sup>2</sup>, Ambient temperature 20°C, Wind speed 1 m/s, Spectrum AM 1.5

### Electrical Properties (NMOT)

Model	LG370N1K-A6	
Maximum Power (P <sub>max</sub> )	[W]	277
MPP Voltage (V <sub>mpp</sub> )	[V]	33.3
MPP Current (I <sub>mpp</sub> )	[A]	8.32
Open Circuit Voltage (V <sub>oc</sub> )	[V]	39.4
Short Circuit Current (I <sub>sc</sub> )	[A]	8.81

### I-V Curves



### Electrical Properties (STC\*)

Model	LG370N1K-A6	
Maximum Power (P <sub>max</sub> )	[W]	370
MPP Voltage (V <sub>mpp</sub> )	[V]	35.5
MPP Current (I <sub>mpp</sub> )	[A]	10.43
Open Circuit Voltage (V <sub>oc</sub> ± 5%)	[V]	41.9
Short Circuit Current (I <sub>sc</sub> ± 5%)	[A]	10.96
Module Efficiency	[%]	20.4
Power Tolerance	[%]	0 ~ +3

\*STC (Standard Test Condition): Irradiance 1000 W/m<sup>2</sup>, cell temperature 25°C, AM 1.5  
Measurement Tolerance of P<sub>max</sub>: ± 3%

### Operating Conditions

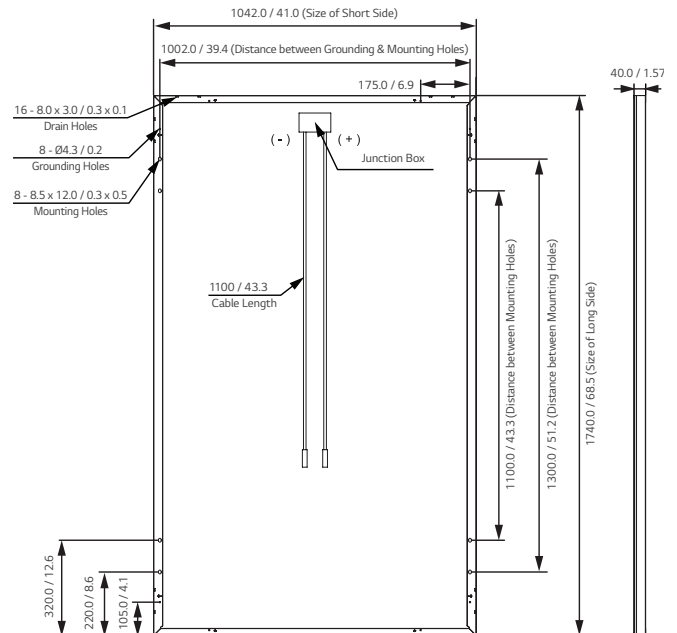
Operating Temperature	[°C]	-40 ~ +85
Maximum System Voltage	[V]	1,000 (UL/IEC)
Maximum Series Fuse Rating	[A]	20
Mechanical Test Load* (Front)	[Pa/psf]	5,400
Mechanical Test Load* (Rear)	[Pa/psf]	4,000

\*Based on IEC 61215-2 : 2016 (Test Load = Design Load x Safety Factor (1.5))  
Mechanical Test Loads 6,000Pa/5,400Pa based on IEC 61215:2005

### Packaging Configuration

Number of Modules per Pallet	[EA]	25
Number of Modules per 40' Container	[EA]	650
Number of Modules per 53' Container	[EA]	850
Packaging Box Dimensions (L x W x H)	[mm]	1,790 x 1,120 x 1,213
Packaging Box Dimensions (L x W x H)	[in]	70.5 x 44.1 x 47.8
Packaging Box Gross Weight	[kg]	500
Packaging Box Gross Weight	[lb]	1,102

### Dimensions (mm/inch)



# CERTIFICATE OF LIABILITY INSURANCE

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 any rights to the certificate holder in lieu of such endorsement(s).

PRODUCER <b>Edgewood Partners Ins. Center</b> 40 Marcus Drive 3rd Floor Melville, NY 11747-2647	<b>CONTACT NAME: Commercial Support</b>
	PHONE (A/C, No, Ext): <b>631-390-9700</b> FAX (A/C, No): <b>631-390-9790</b> E-MAIL ADDRESS: <b>certificates@cookmaran.com</b>
	<b>INSURER(S) AFFORDING COVERAGE</b> <span style="float: right;"><b>NAIC #</b></span>
	INSURER A : <b>Utica Mutual Insurance Company</b> <span style="float: right;"><b>25976</b></span> INSURER B : INSURER C : INSURER D : INSURER E : INSURER F :
INSURED  <b>Catizone Electrical Inc.</b> 2060 Ocean Avenue Ronkonkoma, NY 11779	

**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 INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
<b>A</b>	<input checked="" type="checkbox"/> <b>COMMERCIAL GENERAL LIABILITY</b>  <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR  GEN'L AGGREGATE LIMIT APPLIES PER: <input checked="" type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:			<b>CPP4784747</b>	<b>07/01/2021</b>	<b>07/01/2022</b>	EACH OCCURRENCE                  \$ <b>1,000,000</b> DAMAGE TO RENTED PREMISES (Ea occurrence)    \$ <b>100,000</b> MED EXP (Any one person)                                  \$ <b>10,000</b> PERSONAL & ADV INJURY    \$ <b>1,000,000</b> GENERAL AGGREGATE    \$ <b>2,000,000</b> PRODUCTS - COMP/OP AGG    \$ <b>2,000,000</b>  \$
	<b>AUTOMOBILE LIABILITY</b>  <input type="checkbox"/> ANY AUTO OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> NON-OWNED AUTOS ONLY						COMBINED SINGLE LIMIT (Ea accident)                                  \$ BODILY INJURY (Per person)    \$ BODILY INJURY (Per accident)    \$ PROPERTY DAMAGE (Per accident)    \$  \$
	<input type="checkbox"/> <b>UMBRELLA LIAB</b> <input type="checkbox"/> OCCUR <input type="checkbox"/> <b>EXCESS LIAB</b> <input type="checkbox"/> CLAIMS-MADE  DED                                  RETENTION \$						EACH OCCURRENCE    \$ AGGREGATE    \$  \$
<b>A</b>	<b>WORKERS COMPENSATION AND EMPLOYERS' LIABILITY</b> ANY PROPRIETOR/PARTNER/EXECUTIVE/OFFICER/MEMBER EXCLUDED? <span style="float: right;">Y/N</span> (Mandatory in NH) <span style="float: right;"><input checked="" type="checkbox"/> Y</span> If yes, describe under DESCRIPTION OF OPERATIONS below		N/A	<b>4766763</b>	<b>07/01/2021</b>	<b>07/01/2022</b>	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT    \$ <b>500,000</b> E.L. DISEASE - EA EMPLOYEE    \$ <b>500,000</b> E.L. DISEASE - POLICY LIMIT    \$ <b>500,000</b>

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

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Product	Qty	Unit Price	Price
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First-Class Mail® Letter	1		\$0.58
Bronxville, NY 10708			
Weight: 0 lb 0.40 oz			
Estimated Delivery Date			
Fri 02/04/2022			
Certified Mail®			\$3.75
Tracking #:			
70210350000162127724			
Return Receipt			\$3.05
Tracking #:			
9590 9402 6689 1060 9194 56			
Affixed Postage			-\$0.58
Affixed Amount: \$0.58			
<b>Total</b>			<b>\$6.80</b>

First-Class Mail® Letter	1		\$0.58
Bronxville, NY 10708			
Weight: 0 lb 0.40 oz			
Estimated Delivery Date			
Fri 02/04/2022			
Certified Mail®			\$3.75
Tracking #:			
70210350000162127687			
Return Receipt			\$3.05
Tracking #:			
9590 9402 6689 1060 9194 94			
Affixed Postage			-\$0.58
Affixed Amount: \$0.58			
<b>Total</b>			<b>\$6.80</b>

First-Class Mail® Letter	1		\$0.58
Bronxville, NY 10708			
Weight: 0 lb 0.40 oz			
Estimated Delivery Date			
Fri 02/04/2022			
Certified Mail®			\$3.75
Tracking #:			
70210350000162127663			
Return Receipt			\$3.05
Tracking #:			
9590 9402 6689 1060 9195 17			
Affixed Postage			-\$0.58
Affixed Amount: \$0.58			
<b>Total</b>			<b>\$6.80</b>

First-Class Mail® Letter	1		\$0.58
Bronxville, NY 10708			
Weight: 0 lb 0.40 oz			

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<input type="checkbox"/> Return Receipt (hardcopy)	\$3.05
<input type="checkbox"/> Return Receipt (electronic)	\$0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00
<input type="checkbox"/> Adult Signature Required	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00

Postage \$0.58

Total Postage and Fees \$7.38

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Extra Services & Fees (check box, add fee as appropriate)

<input type="checkbox"/> Return Receipt (hardcopy)	\$3.05
<input type="checkbox"/> Return Receipt (electronic)	\$0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00
<input type="checkbox"/> Adult Signature Required	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00

Postage \$0.58

Total Postage and Fees \$7.38

Sent To: Sean Murphy  
 Street and Apt. No., or PO Box No. 16 Cross West Rd  
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Extra Services & Fees (check box, add fee as appropriate)

<input type="checkbox"/> Return Receipt (hardcopy)	\$3.05
<input type="checkbox"/> Return Receipt (electronic)	\$0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00
<input type="checkbox"/> Adult Signature Required	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00

Postage \$0.58

Total Postage and Fees \$7.38

Sent To: Brian Dougherty  
 Street and Apt. No., or PO Box No. 18 Village Lane  
 City, State, ZIP+4® Bronxville, NY 10708

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<input type="checkbox"/> Return Receipt (hardcopy)	\$3.05
<input type="checkbox"/> Return Receipt (electronic)	\$0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00
<input type="checkbox"/> Adult Signature Required	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00

Postage \$0.58

Total Postage and Fees \$7.38

Sent To: A. S. Peters  
 Street and Apt. No., or PO Box No. 10 Village Lane  
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<input type="checkbox"/> Return Receipt (hardcopy)	\$3.05
<input type="checkbox"/> Return Receipt (electronic)	\$0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00
<input type="checkbox"/> Adult Signature Required	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00

Postage \$0.58

Total Postage and Fees \$7.38

Sent To: Brian Hail  
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W -**  
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BIBI-RAFIK -**  
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A -**  
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S -**  
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