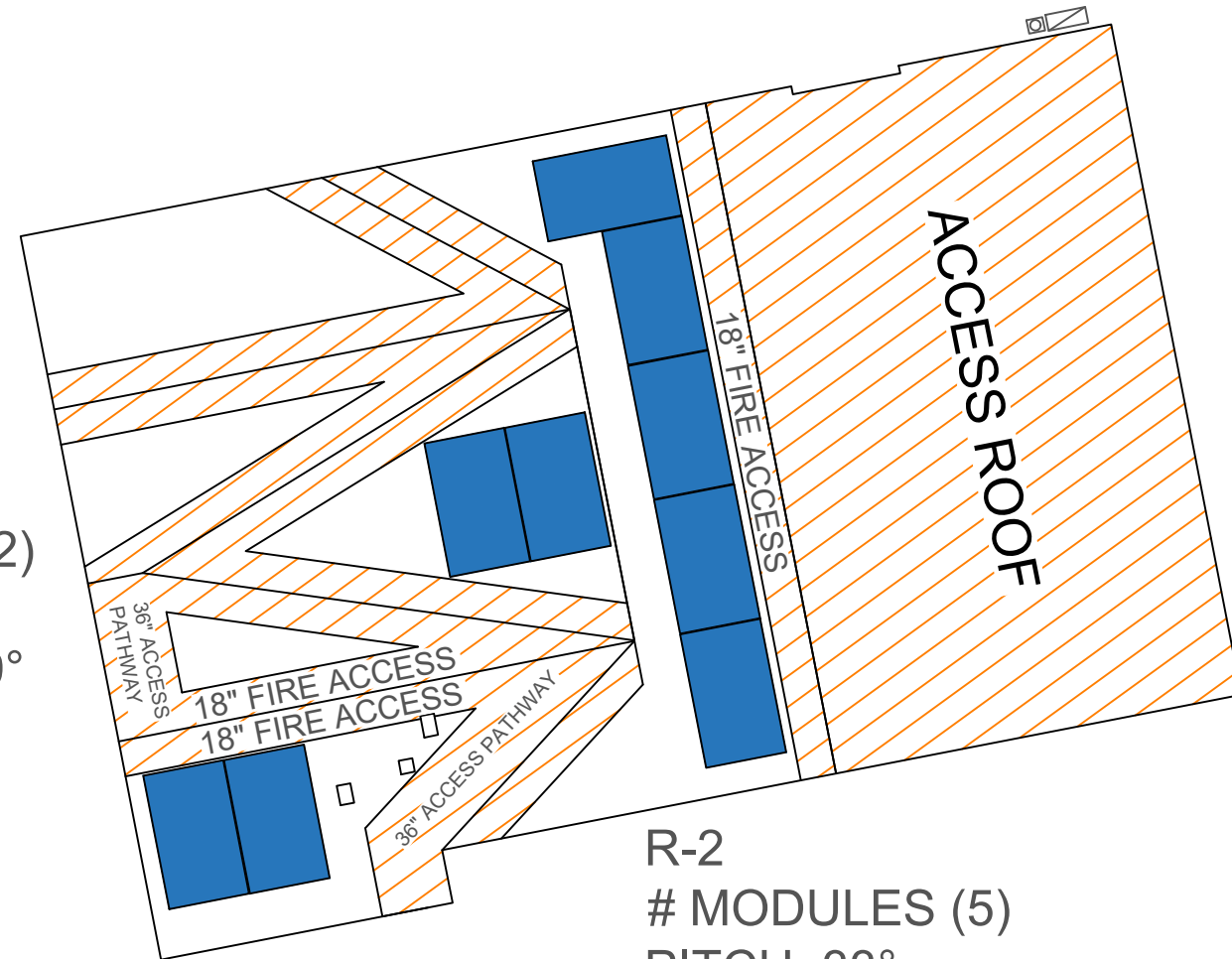




R-3
MODULES (2)
PITCH: 14°
AZIMUTH: 259°

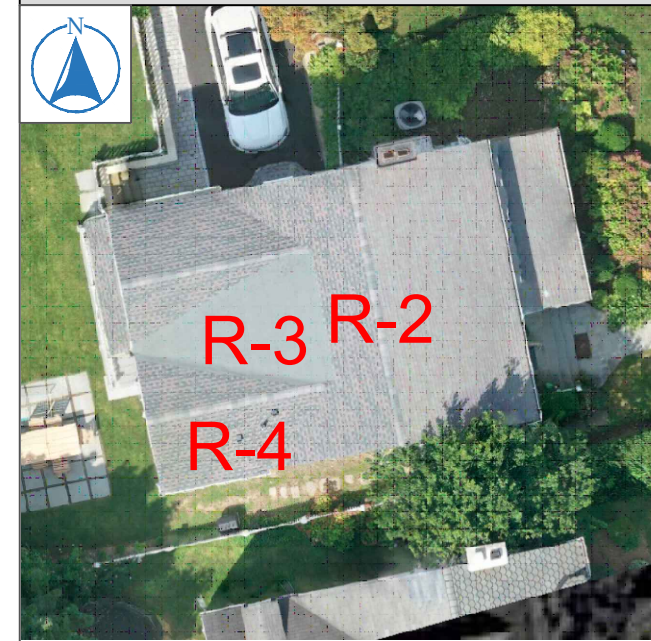


R-4
MODULES (2)
PITCH: 35°
AZIMUTH: 169°

R-2
MODULES (5)
PITCH: 33°
AZIMUTH: 259°

FRONT OF HOUSE

AERIAL



SHEET INDEX

- S-1 SITE PLAN
- S-2 DETAILS
- E-1 ELECTRICAL PLAN
- L-1 MOUNTING PLAN
- E-2 BATTERY DETAILS
- E-4 STICKERS

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

**THOMPSON
RESIDENCE**

36 KANE AVENUE
LARCHMONT, NY 10538
VILLAGE OF LARCHMONT
S: 7 B: 9 L: 90

PROJECT DATA: #214752
 INVERTER: (1) GENERAC 7.6KW X7602
 MODULES: (9) LG370N1K-A6
 RACKING: IRON RIDGE XR100
 WATTAGE: 3,330
 ROOF TYPE: COMPOSITION SHINGLES
 WIND LOAD: -33PSF @ 130MPH
 FASTENER: USE 5/16" DIA. 5" LAGS
 ESS: GENERAC PWRCELL 12KWH



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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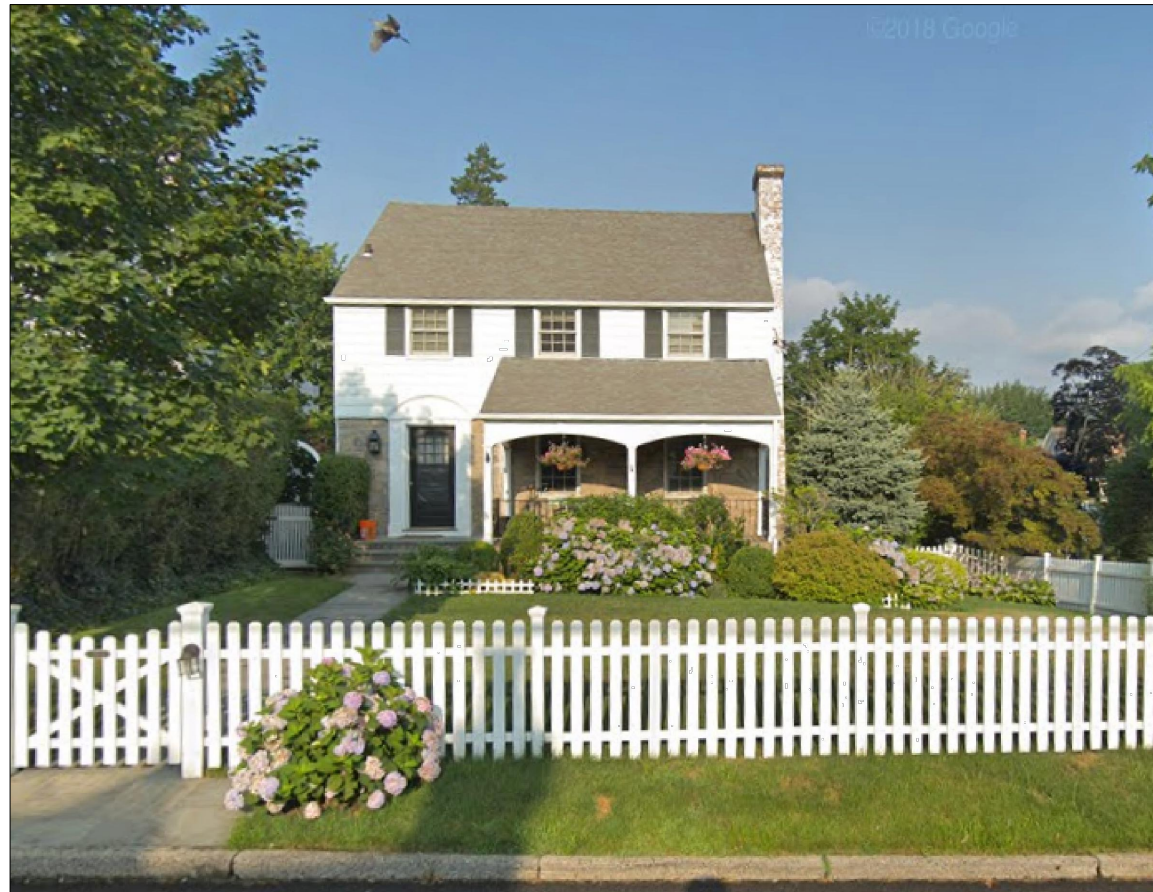
REPRESENTS ALL FIRE CLEARANCE INCLUDING ALTERNATIVE METHODS

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 LARCHMONT CODE, 2017 NATIONAL ELECTRIC CODE. ASCE7-16.

SITE PLAN

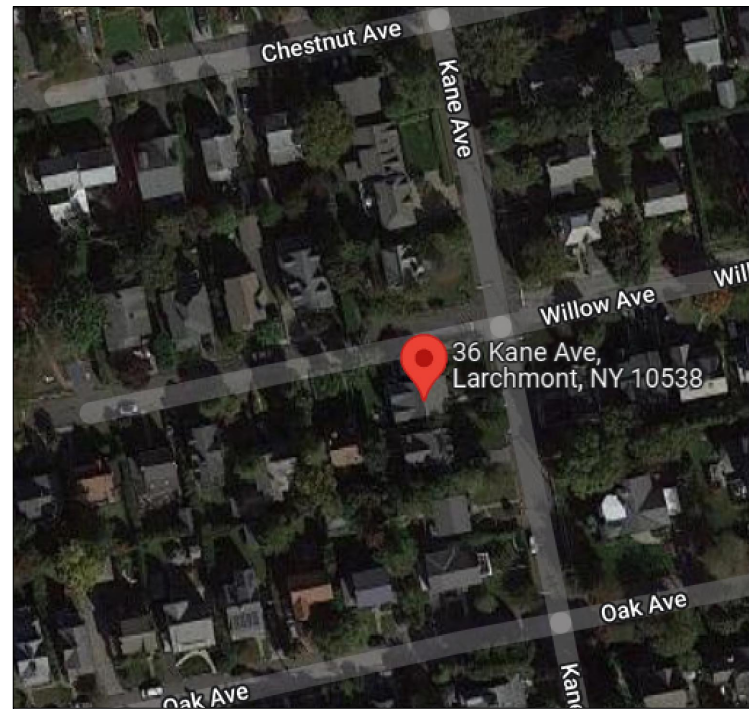
S-1



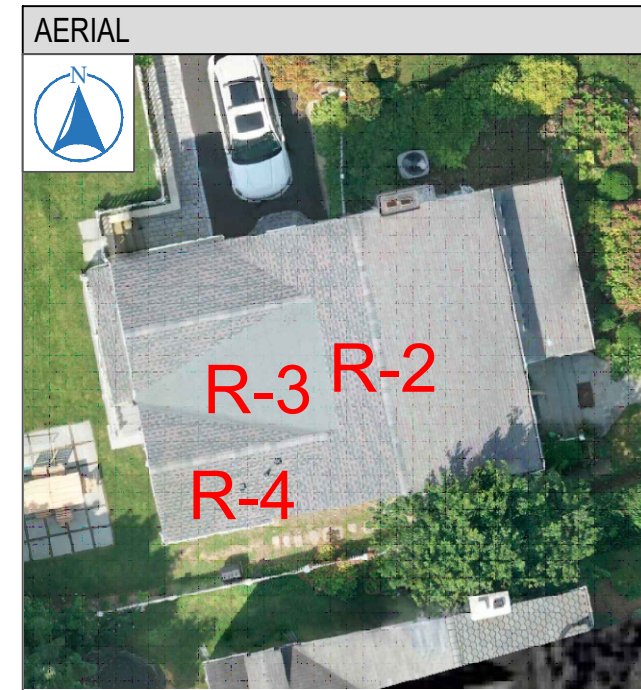
FRONT OF HOUSE, PANELS ARE ON REAR ROOF, NOT VISIBLE FROM FRONT



LOOKING NORTH ON KANE AVENUE, PANEL ARE ON REAR ROOF AND NOT VISIBLE FROM STREET



OVERALL VIEW



LOOKING EAST ON WILLOW, PANELS ARE NOT VISIBLE FROM ROAD DUE TO EXISTING VEGETATION



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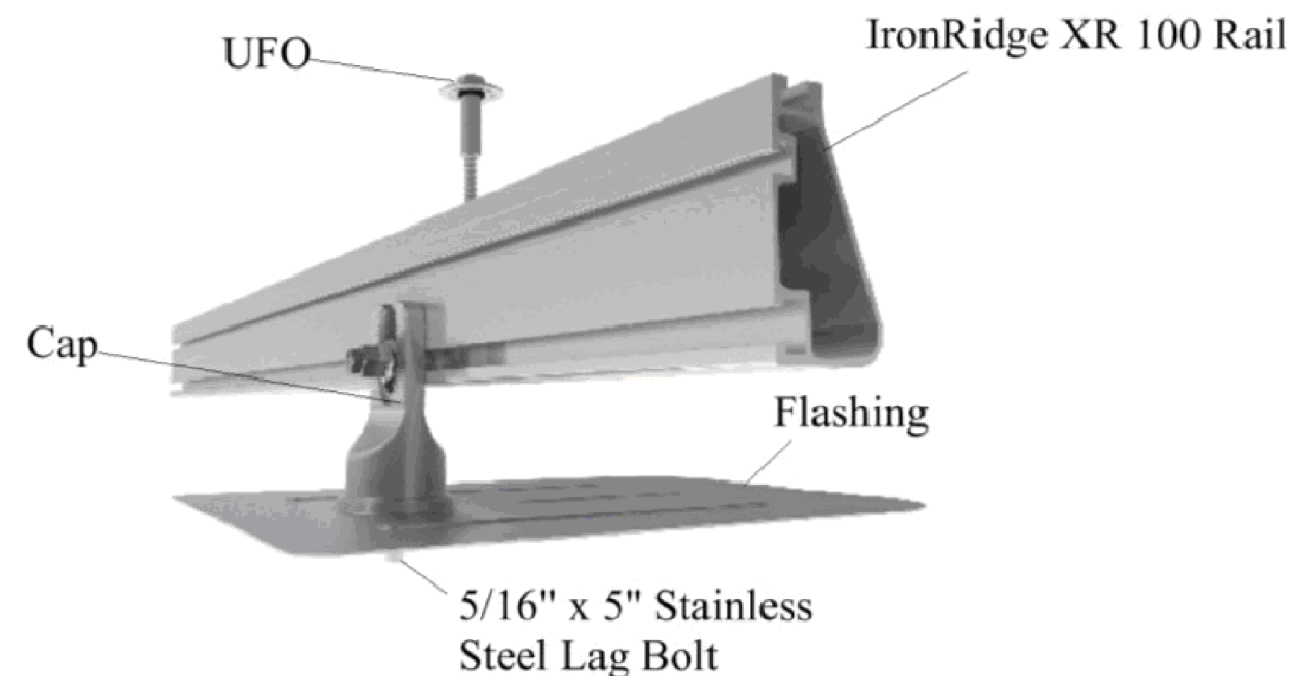
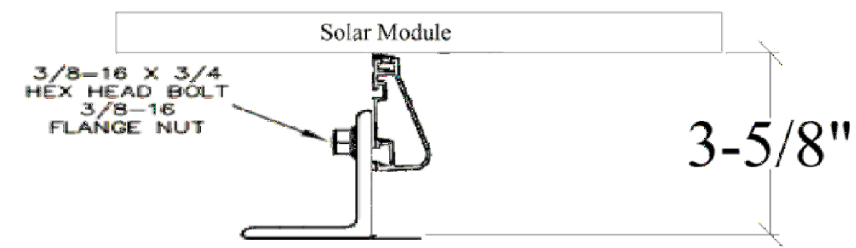
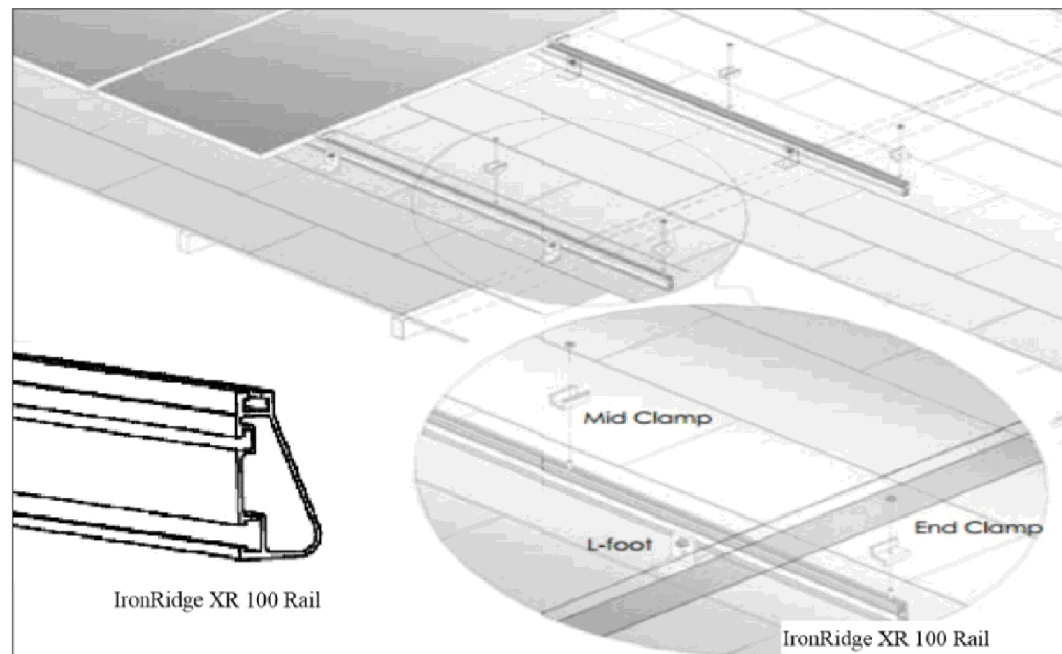
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ELEVATION

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
R2	33°	2"x8"	2"x6"@16"O.C.	13'-4"	6"	TRUE DIMENSIONAL LUMBER
R3	35°	2"x8"	2"x6"@16"O.C.	10'-6"	6"	TRUE DIMENSIONAL LUMBER
R4	14°	2"x8"	2"x6"@16"O.C.	9'-8"	6"	TRUE DIMENSIONAL LUMBER

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

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 VILLAGE OF LARCHMONT CODE, 2017 NATIONAL ELECTRIC CODE. ASCE7-16.

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

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 WIND LOAD: -33PSF @ 130MPH
 FASTENER: USE 5/16" DIA. 5" LAGS
 ESS: GENERAC PWRCELL 12KWH



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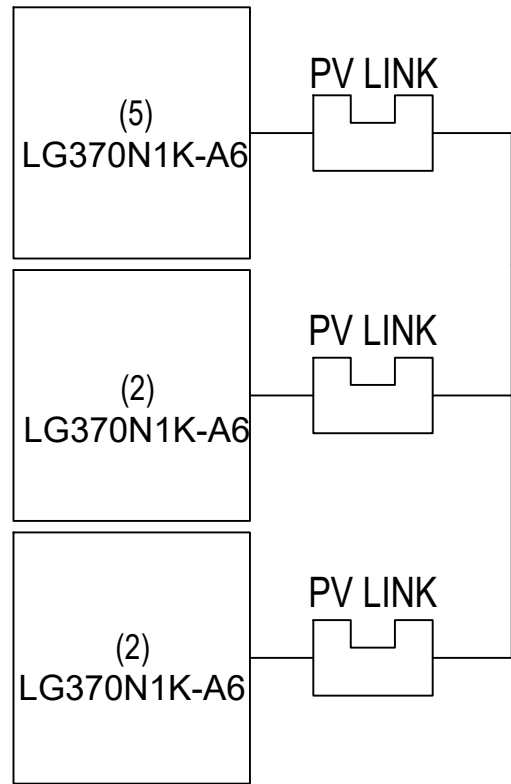
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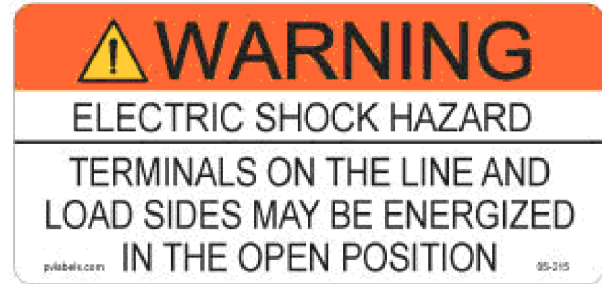
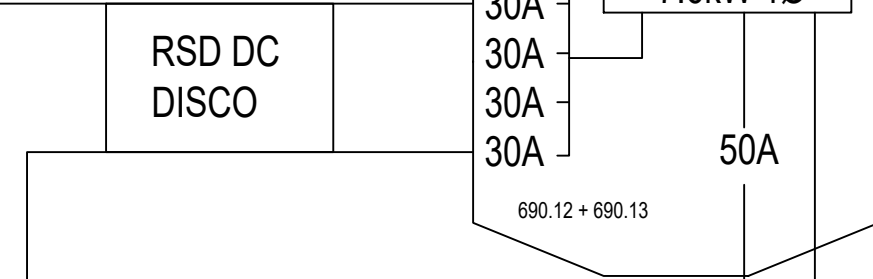
DETAILS

S-2

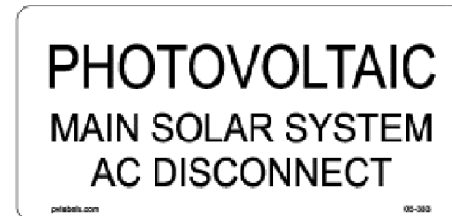


FOR ALL DC WIRING ON LEFT SIDE OF INVERTER

#10 AWG THWN FOR HOME RUNS
 (1) POS
 (1) NEG
 (1) GROUND
 PER CIRCUIT
 IN 1" PVC CONDUIT OR METAL CLAD INSIDE



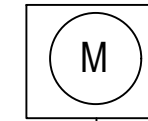
PHOTOVOLTAIC SYSTEM DC DISCONNECT		
OPERATING VOLTAGE	380	VDC
OPERATING CURRENT	24	AMPS
MAX SYSTEM VOLTAGE	420	VDC
SHORT CIRCUIT CURRENT	39	AMPS
CHARGE CONTROLLER MAX	30	AMPS



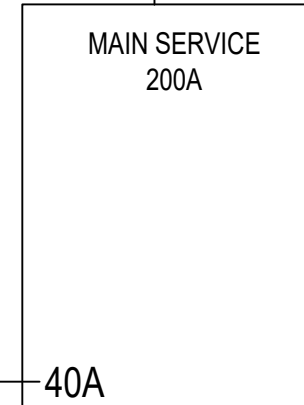
#8 AWG THWN
 (1) LINE 1
 (1) LINE 2
 (1) NEUTRAL
 (1) EGC
 IN 1 1/2" PVC CONDUIT



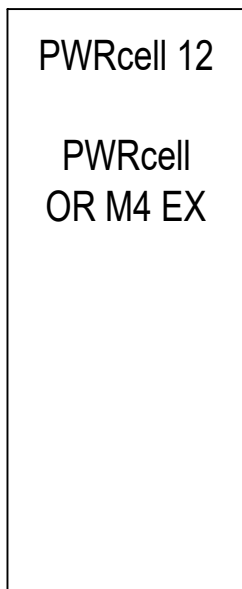
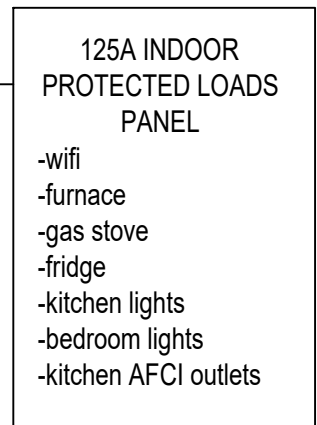
METER
 ACCT#: 52-2414-0227-0002-7
 METER#: 9510242



LOAD SIDE INTERCONNECTION
 705.12(B)(2)(3)(b)



AC DISTRIBUTION PANEL
 OR SUB PANEL



- EQUIPMENT LIST:
- (1) GENERAC 7.6kw X7602
 - (3) PV LINKS
 - (9) SNAP RS
 - (4) MC4 Y CONNECTORS
 - (1) PWRCELL 12 M4 EX
 - (1) 125A 12/24 SQD HOM LOAD CENTER
 - (6) 15A 1P SQD HOM BREAKERS
 - (1) 20A AFCI 1P SQD HOM BREAKER
 - (1) RSD DC DISCONNECT
 - (1) 40A 2P SQD HOM BREAKER
 - (2) BOLLARDS
 - (1) SMOKE ALARM

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

THOMPSON RESIDENCE

36 KANE AVENUE
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 WATTAGE: 3,330
 ROOF TYPE: COMPOSITION SHINGLES
 WIND LOAD: -33PSF @ 130MPH
 FASTENER: USE 5/16" DIA. 5" LAGS
 ESS: GENERAC PWRCELL 12KWH



MICHAEL E. MIELE, PE
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 705 Orrs Mills Road
 New Windsor, NY 12553
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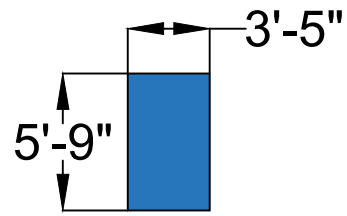
AC COMBINER:
 1-PHASE, MAIN LUG LOAD CENTER, 125A

NOTE:
 ALL WIRING TO MEET THE 2017 NEC AND 2020 ENERGY CODE
 60A FUSED SERVICE RATED DISCONNECT

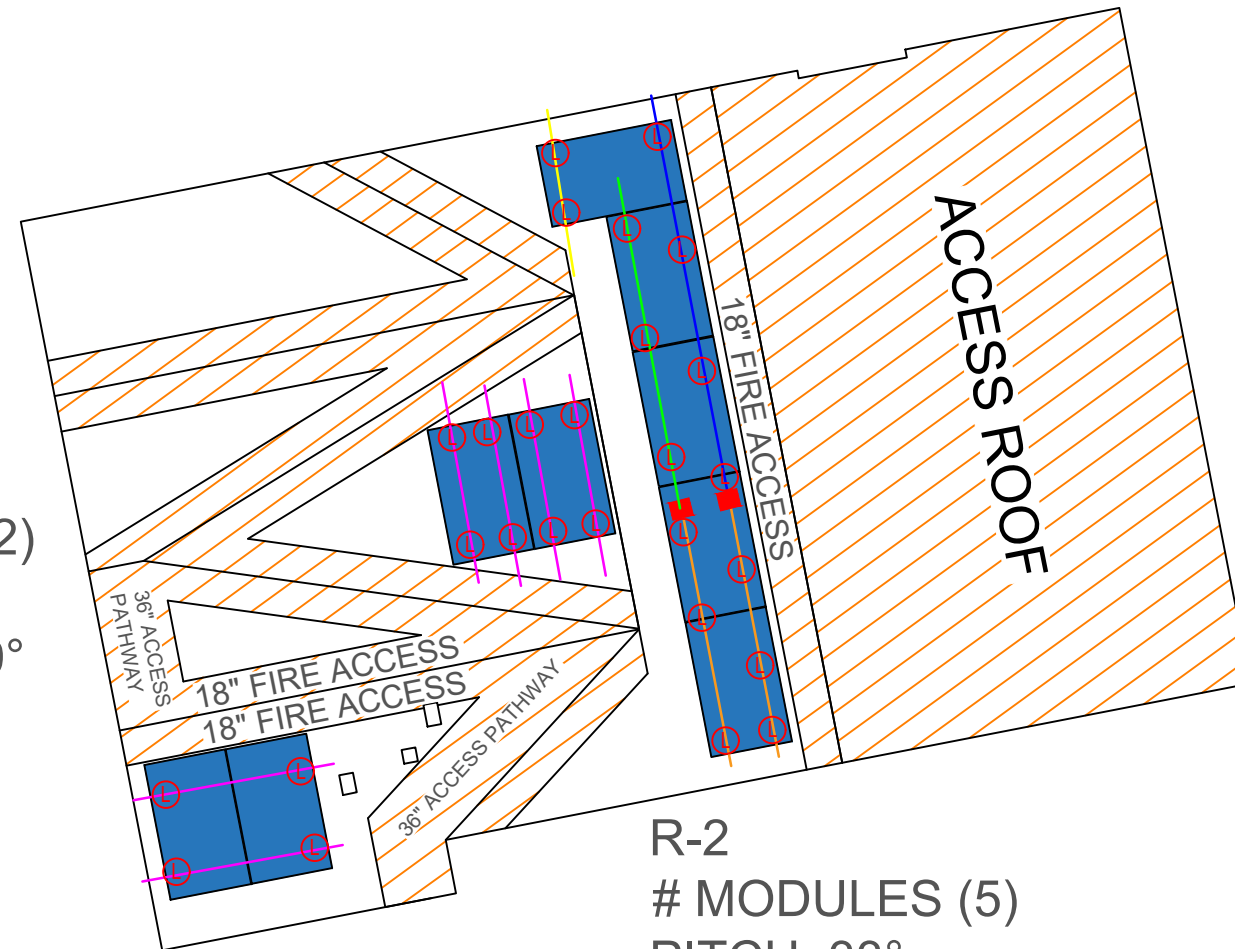
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ELECTRICAL PLAN

E-1



LG370N1K-A6
 PANEL DIMENSIONS:
 SCALE: $\frac{1}{8}'' = 1'-0''$



R-3
 # MODULES (2)
 PITCH: 14°
 AZIMUTH: 259°

R-2
 # MODULES (5)
 PITCH: 33°
 AZIMUTH: 259°

R-4
 # MODULES (2)
 PITCH: 35°
 AZIMUTH: 169°

- 17' ————— 4
- 14' ————— 2
- 11' ————— 2
- 8.5' ————— 0
- 7' ————— 0
- 4' ————— 0
- SPLICE BAR 2
- ⊙ PENETRATIONS 27
- UFO 25
- 40MM SLEEVE 18
- END CAPS 18
- CONSUMPTION
- CRITTER GUARD 150'



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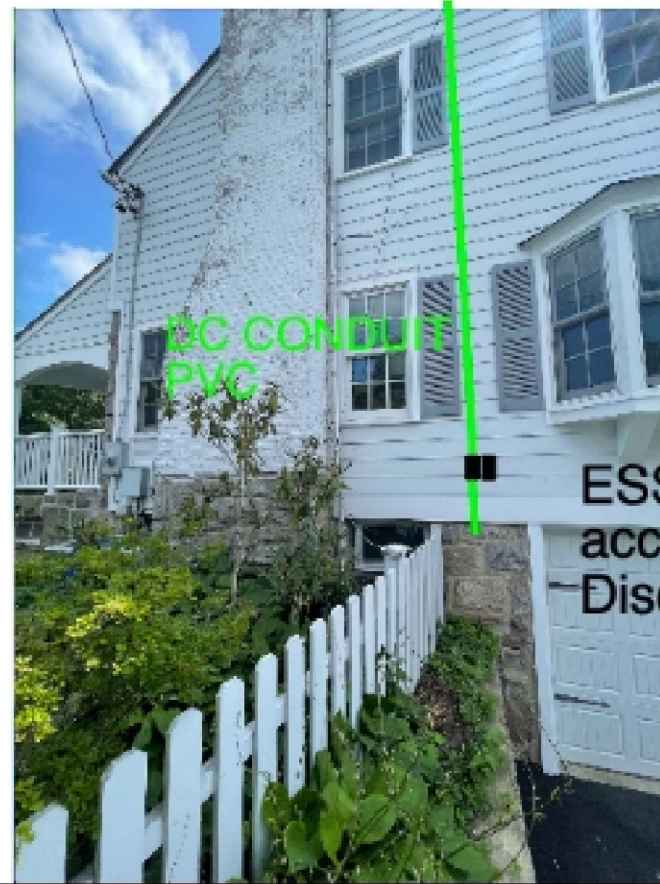
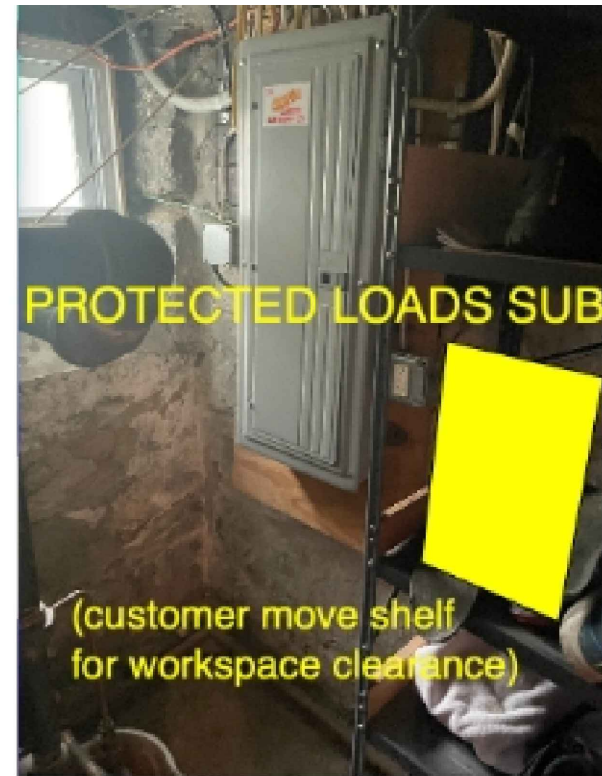
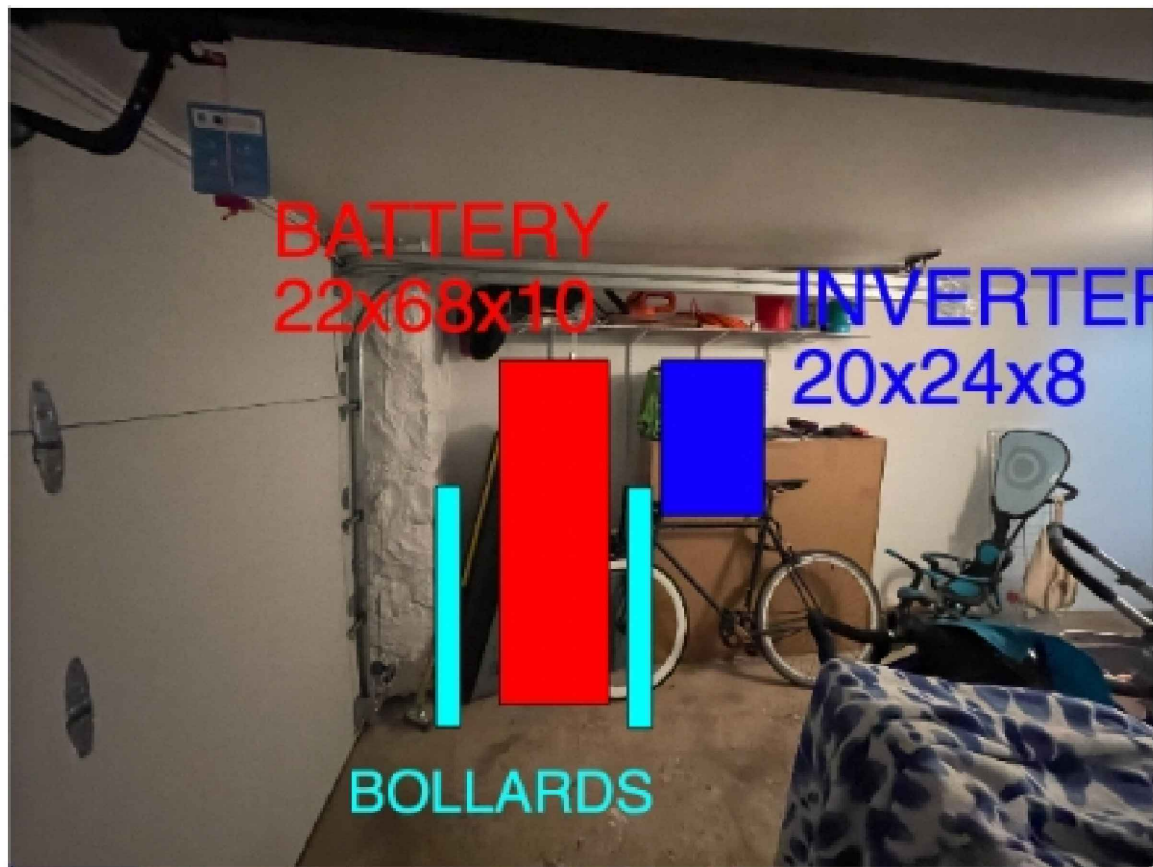
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MOUNTING PLAN

L-1



ADDITIONAL CONSTRUCTION ITEMS:

- (1) BOLLARDS TO PROTECT BATTERY
- (1) 10YR SEALED BATTERY SMOKE DETECTOR/ALARM WITH FUTURE INTERCONNECT CAPABILITIES (WIFI OK)
- TYPE X GWB ON WALLS AND CLG (XXSF GWB)

OTHER ELECTRICAL GENERAL NOTES

- 40A BACKFED BREAKER AT OPPOSITE END OF BUSBAR FROM MAIN BREAKER
- BACKFED AND MAIN DISCONNECT MUST BE LESS THAN 120% OF BUSBAR RATING
- SUM OF BREAKERS EXCLUDING MAIN BREAKER MUST NOT EXCEED 100% OF BUSBAR RATING

BATTERY CABINET GENERAL NOTES

- 30" CLEAR SPACE SIDE TO SIDE
- 36" FRONT CLEARANCE
- 6'-6" MAX MOUNTING HEIGHT
- 5/8" TYPE-X GWB ON MOUNTING WALL
BRICK, CONCRETE, CMU ALL OK
PLYWOOD IS A NO GO
- IF IN GARAGE, BOLLARDS REQUIRED
- MUST NOT BE IN A REGULARLY OCCUPIED AREA. INSTALL IN GARAGE, BASEMENT, OR UTILITY CLOSET
- 30A 600V DC DISCONNECT LOCKABLE OPEN TO BE INSTALLED BETWEEN BATTERY AND INVERTER IF GREATER THAN 5-FT APART
- INDIVIDUAL ESS UNITS MUST BE 3-FT APART



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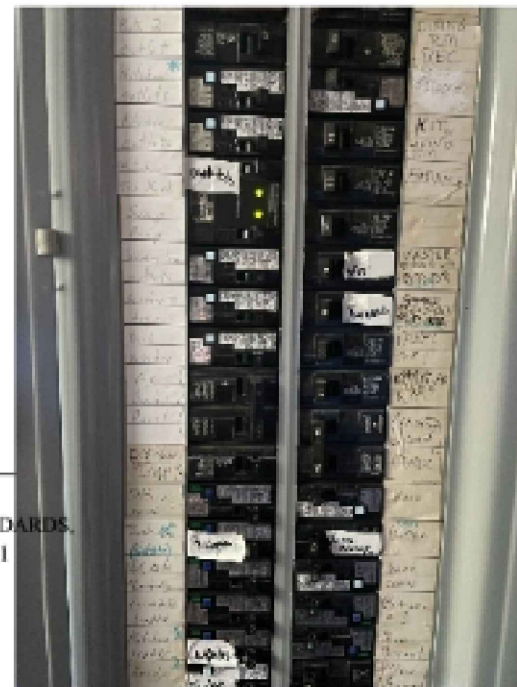


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- Protected Loads:**
- 15a wifi
 - 15a furnace
 - 15a gas stove
 - 15a fridge
 - 15a kitchen lights
 - 15a bedroom lights
 - 20a AFCI kitchen outlets



NOTE:
 ALL WIRING TO MEET THE 2017 NEC STANDARDS and NFPA 855 STANDARDS LISTED PER UL 1741 SA and 1973, ANSI 9540, IEC 62109, AND IEEE 1547.1

ALL WIRING TO MEET 2020 ENERGY CODE

2020 RESIDENTIAL CODE OF NYS (adopting 2018 IRC)

VILLAGE OF: Larchmont

CONDUIT LABEL
1 EVERY 10-FT

**WARNING: PHOTOVOLTAIC
POWER SOURCE**

AC COMBINER

**PHOTOVOLTAIC SYSTEM
COMBINER PANEL
DO NOT ADD LOADS**

UTILITY METER LABEL

WARNING
THREE POWER SOURCES
SOURCES: UTILITY GRID, BATTERY
AND PV SOLAR ELECTRIC SYSTEM



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RAPID SHUTDOWN

**RAPID SHUTDOWN
PV ARRAY**

AC COMBINER

WARNING
ELECTRIC SHOCK HAZARD
TERMINALS ON THE LINE AND
LOAD SIDES MAY BE ENERGIZED
IN THE OPEN POSITION

MSP LABEL

WARNING
ELECTRIC SHOCK HAZARD
TERMINALS ON THE LINE AND
LOAD SIDES MAY BE ENERGIZED
IN THE OPEN POSITION

DC DISCONNECT LABEL

**PHOTOVOLTAIC SYSTEM
DC DISCONNECT**
OPERATING VOLTAGE VDC
OPERATING CURRENT AMPS
MAX SYSTEM VOLTAGE VDC
SHORT CIRCUIT CURRENT AMPS
CHARGE CONTROLLER MAX AMPS

AC COMBINER

WARNING
INVERTER OUTPUT CONNECTION
DO NOT RELOCATE THIS
OVERCURRENT DEVICE

MSP LABEL

WARNING
THREE POWER SOURCES
SOURCES: UTILITY GRID, BATTERY
AND PV SOLAR ELECTRIC SYSTEM



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AC DISCONNECT

**PHOTOVOLTAIC SYSTEM
AC DISCONNECT**
RATED AC OUTPUT CURRENT A
NOMINAL OPERATING AC VOLTAGE V

CRITICAL LOAD PANEL

**BATTERY ESSENTIAL
LOADS PANEL**



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BATTERY CONDUIT LABEL
1 EVERY 10 FEET

CAUTION: BATTERY CIRCUIT

AC DISCONNECT

WARNING
ELECTRIC SHOCK HAZARD
TERMINALS ON THE LINE AND
LOAD SIDES MAY BE ENERGIZED
IN THE OPEN POSITION

INTERCONNECT LABEL

**SOLAR CONNECTION
LINE SIDE TAP**

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

STICKERS

E-4

Michael E. Miele, PE

Licensed Professional Engineer

Licensed In New York, New Jersey, Connecticut & California

New York License # 079676

New Jersey License # 44042

Connecticut License # 23158

California License # 31508

January 12, 2022

Village of Larchmont Building Department

The Office of the Building Inspector

120 Larchmont Ave # 1

Larchmont, NY 10538

Re: Rachel Thompson - 36 Kane Avenue, Larchmont, NY 10538
Single Family Residence, Solar Panel Loading Certification
Village of Larchmont, County of Westchester, State of New York

Dear Building Department

I am the engineer of record for the above referenced project. I have prepared the attached plans dated August 19, 2021 that consists of the installation of (9) LG370W solar panels at the above referenced location.

I can herby certify that the existing roof structure combined with the additional weight of the solar panels meets the requirements of The 2020 Residential Code of New York State, Publication Date, November 2019.

The design loads were as follows,

Roof Design Snow Load: 30psf

Wind Design Load: 120mph

Seismic Design Category: B

No additional structural members were required.

The roof is currently framed with 2x6 true dimensional wood framing @ 16" O.C. The roof structural members are in compliance with ASCE 7-16 for deflection and acceptable bending stress.

If you have any questions, please feel free to call me at any time. Thanks in advance.

Sincerely Yours,



Michael E. Miele, PE

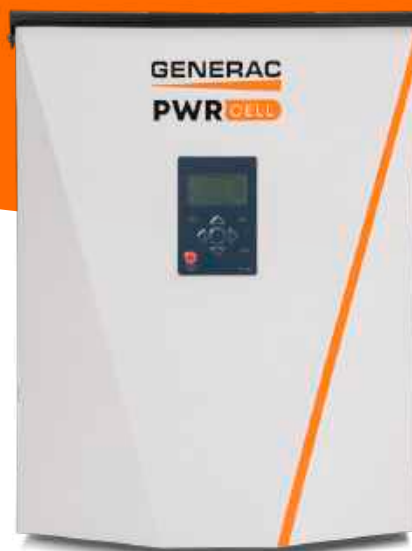


GENERAC®

PWRCELL

7.6kW 1Ø PWRcell Inverter with CTs
Model #: X7602 (Ordering SKU: APKE00014)

11.4 kW 3Ø PWRcell Inverter with CTs
Model #: X11402 (Ordering SKU: APKE00013)



Solar + storage is simple with the Generac PWRcell™ Inverter. This bi-directional, REbus™-powered inverter offers a simple, efficient design for integrating smart batteries with solar. Ideal for self-supply, backup power, zero-export and energy cost management, the PWRcell Inverter is the industry's most feature-rich line of inverters, available in single-phase and three-phase models.

FEATURES & BENEFITS

- Single inverter for grid-tied solar with smart battery integration
- Simplified system design: No autotransformer or battery inverter needed
- User-selectable modes for backup power, self-supply, time-of-use, zero-import and export limiting
- Free system monitoring included via PWRview™ Web Portal and Mobile App

AC OUTPUT/GRID-TIE	MODEL X7602	MODEL X11402
CONT. GRID-TIED AC POWER @ 50°C (122°F):	7600 W	11400 W
AC OUTPUT VOLTAGE:	120/240, 1Ø VAC	120/208, 3Ø VAC
AC FREQUENCY:	60 Hz	
MAXIMUM CONTINUOUS OUTPUT CURRENT:	32 A, RMS	
GROUND-FAULT ISOLATION DETECTION:	Included	
CHARGE BATTERY FROM AC:	Yes	
THD (CURRENT):	< 2%	
TYPICAL NIGHTTIME POWER CONSUMPTION:	< 7 W	

AC OUTPUT/ISLANDED	MODEL X7602	MODEL X11402
MAX. CONT. AC POWER W/ SINGLE 6 MODULE BATTERY CABINET ¹ :	9,000 W ²	
MAX. CONT. AC POWER WITH 2 BATTERY CABINETS (8 MODULES MINIMUM) ³ :	11,000 W ²	9,600-11,000 W ²
PEAK MOTOR STARTING CURRENT (2 SEC):	50 A, RMS	
AC BACKUP OUTPUT VOLTAGE:	120/240, 1Ø VAC	120/208, 1Ø VAC
AC FREQUENCY:	60 Hz	
THD (VOLTAGE):	< 2%	
ALLOWABLE SPLIT PHASE IMBALANCE:	Up to 30%	

DC INPUT	MODEL X7602	MODEL X11402
DC INPUT VOLTAGE RANGE:		360-420 VDC
NOMINAL DC BUS VOLTAGE:		380 VDC
DC DISTRIBUTION INPUT BREAKERS:		4 x 2P30 A
MAX INPUT CURRENT PER DC INPUT:		30 A
REVERSE-POLARITY PROTECTION:		Yes
TRANSFORMERLESS, UNGROUNDED:		Yes
TYPICAL NIGHTTIME POWER CONSUMPTION:		< 7 W
DC BUS EXPORT FUSES (+/-):		40 A
2-POLE DISCONNECTION:		Yes

EFFICIENCY	MODEL X7602	MODEL X11402
PEAK EFFICIENCY:	97.3%	97.7%
CEC WEIGHTED EFFICIENCY:	96.5%	97.5%

¹Peak Performance, values provided for 40°C (104°F)

²When islanded, continuous power output is restricted to 7.68kW unless backup power is routed through an external transfer switch.

³In Island mode X11402 protected loads only supply 2 phases 120 VAC L-N, 208 L-L which results in lower power than in grid tied 3 phase mode. The low value of the range is for full L-L loading while high value of the range is full L-N loading

Specifications

FEATURES AND MODES

ISLANDING ⁴ :	Yes
GRID SELL:	Yes
SELF CONSUMPTION:	Yes
PRIORITIZED CHARGING FROM RENEWABLES:	Yes
GRID SUPPORT - ZERO EXPORT:	Yes
ESS PCS OPERATION MODES (IMPORT ONLY, EXPORT ONLY):	Yes

ADDITIONAL FEATURES

SUPPORTED COMMUNICATION INTERFACES:	REbus™, CANbus, Ethernet
SYSTEM MONITORING:	PWRview™ Web Portal and Mobile App
BACKUP LOADS DISCONNECT ⁴ :	Yes, 50 A Circuit Breaker
INVERTER BYPASS SWITCH:	Automatic
WARRANTY:	10 Years

STANDARDS COMPLIANCE

SAFETY:	UL 1741 SA, CSA 22.2, UL 1998
GRID CONNECTION STANDARDS:	IEEE 1547, Rule 21, Rule 14H, CSIP, UL 1741 PCS CRD (Import Only, Export Only)
EMISSIONS:	FCC Part 15 Class B

DIMENSIONS AND INSTALLATION SPECIFICATIONS

ENCLOSURE KNOCKOUTS - QTY, SIZE - IN (MM):	6 x Combo 3/4" x 1" (19 x 25.4) 7 x Combo 1/2" x 3/4" (12.7 x 19)
DIMENSIONS L x W x H - IN (MM):	24.5" x 19.25" x 8" (622.3 x 488.9 x 203.2)
WEIGHT - LB (KG):	62.7 (28.4)
COOLING:	Forced convection
AUDIBLE NOISE:	< 40 dBA
OPERATING TEMPERATURE - FAHRENHEIT (CELSIUS):	-4 to 122 °F (-20 to 50 °C) ⁵
ENCLOSURE TYPE:	Type 3R

INSTALLATION GUIDELINES

BATTERY TYPES SUPPORTED:	PWRcell™ Battery
MODULE STRING SIZE PER PV LINK OPTIMIZER:	Varies, refer to PV Link Installation Manual
MAXIMUM RECOMMENDED DC POWER FROM PV ⁶ :	10 kW (1Ø), 15 kW (3Ø)

⁴3Ø inverters offer islanding for 1Ø loads.

⁵Includes ambient temperature rising from inverter operation. Reduced power at extreme temperatures.

Specifications listed in this document are achieved with firmware version 13310 or greater. Confirm inverter has latest firmware to ensure full performance.

⁶Values provided for PV-only or small storage systems. Additional PV power is permissible if sufficient battery storage capacity is installed.

GENERAC[®]

PWRCELL

PWRcell Battery Cabinet (Ordering SKU: APKE00007)
2.85kWh PWRcell Battery Module
Model #: BJ-DCB05ZKAX (Ordering SKU: A0000391219)
PWRcell Battery Configuration Model #s:
PWRcell 9, PWRcell 12, PWRcell 15, PWRcell 17
PWRcell Spacer Kit (Ordering SKU: APKE00008)
PWRcell Upgrade Kit (Ordering SKU: APKE00009)

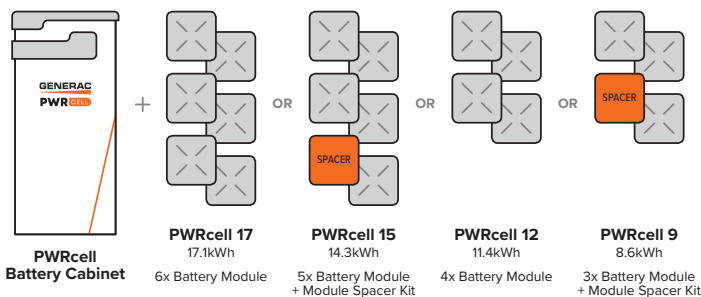
The PWRcell™ Battery Cabinet is a modular smart battery platform that allows for a range of configurations to suit any need, small or large. No other smart battery offers the power and flexibility of PWRcell. Whether for backup power or smart energy management, PWRcell has power and capacity options for every need, without sacrificing flexibility or function.



PWRcell BATTERY CABINET DESIGN

The PWRcell Battery Cabinet allows system owners the flexibility to scale from the economical 8.6kWh PWRcell 9 to the massive 17.1kWh PWRcell 17 by installing additional battery modules to the PWRcell Battery Cabinet. When needs change, an existing PWRcell Battery Cabinet can be upgraded with additional modules. Use the graphic below and the chart on the back of this sheet to understand what components you need for your chosen PWRcell configuration.

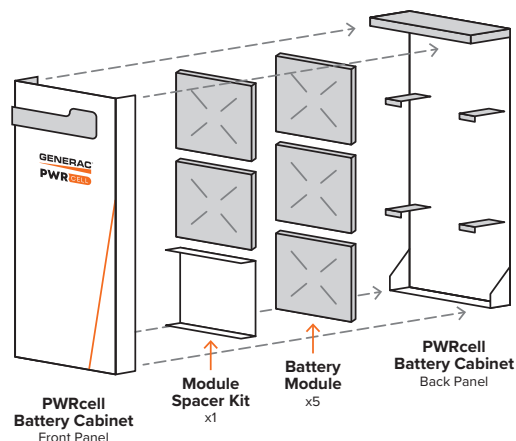
BATTERY CONFIGURATION GUIDE



FEATURES & BENEFITS

- Connect 2 PWRcell Battery Cabinets to a single PWRcell Inverter for 34.2kWh of storage
- Best-in-class battery backup power
- Plug-and-play with PWRcell Inverter and PV Link™
- Time-of-use (TOU) and zero-export ready
- Residential and commercial application ready

BATTERY CABINET ASSEMBLY



Specifications

PWRcell™ BATTERY CONFIGURATIONS	9	12	15	17
BATTERY MODULES:	3	4	5	6
USABLE ENERGY:	8.6kWh	11.4kWh	14.3kWh	17.1kWh
POWER - RATED CONTINUOUS:	3.4kW	4.5kW	5.6kW	6.7kW
POWER - 60 MINUTES:	4.2kW	5.6kW	7.0kW	8.4kW
POWER - 2 MINUTES:	5.0kW	6.7kW	8.4kW	10.0kW
REbus™ VOLTAGE - INPUT/OUTPUT:	360-420 VDC			
MODULE VOLTAGE:	46.8 VDC			
ROUND-TRIP EFFICIENCY:	96.50%			
OPERATING TEMPERATURE - FAHRENHEIT (CELSIUS):	41 to 113 °F (5 to 45 °C)			
RECOMMENDED AMBIENT TEMPERATURE - FAHRENHEIT (CELSIUS):	55 to 86 °F (13 to 30 °C)			
MAXIMUM INSTALLATION ALTITUDE - FT (M):	9834 (3000)			
DIMENSIONS, L x W x H - IN (MM):	22" x 10" x 68" (559 x 254 x 1727)			
WEIGHT, ENCLOSURE - LB (KG):	115 (52)			
WEIGHT, INSTALLED - LB (KG):	280 (127)	335 (152)	390 (178)	445 (202)
WARRANTY - LI-ION MODULES:	10 Years, (7.56MWh)			
WARRANTY - ELECTRONICS AND ENCLOSURE:	10 Years			
COMMUNICATION PROTOCOL:	REbus™ DC Nanogrid™			
COMPLIANCE:	UL 9540, UL 1973, UL 1642, CSA 22.2			

UPGRADING PWRcell

Inside of the PWRcell Battery Cabinet, battery modules are stacked two deep on three levels, allowing for up to six modules to be connected in series. You can upgrade an existing PWRcell Battery Cabinet by adding Battery Modules and a Module Spacer (APKE00008) if required. PWRcell 9 and PWRcell 15 require a module spacer.

Generac offers a convenient PWRcell Battery Upgrade Kit (APKE00009) to help replace lost or misplaced hardware. A PWRcell Battery Upgrade Kit may be purchased from your Generac distributor.

Refer to the table to the right for material requirements related to upgrading the PWRcell Battery Cabinet.

UPGRADE MATERIAL REQUIREMENTS

STARTING CONFIGURATION	ENDING CONFIGURATION		
	PWRcell 17	PWRcell 15	PWRcell 12
PWRcell 9	+ 3 x PWRCell Mod + 2 x APKE00009*	+ 2 x PWRCell Mod + 1 x APKE00009*	+ 1 x PWRCell Mod + 1 x APKE00009*
PWRcell 12	+ 2 x PWRCell Mod + 1 x APKE00009*	+ 1 x PWRCell Mod + 1 x APKE00008	
PWRcell 15	+ 1 x PWRCell Mod + 1 x APKE00009*		

*APKE00009 (Upgrade kit) only required if original hardware is unavailable

Generac Power Systems, Inc.
S45 W29290 Hwy. 59, Waukesha, WI 53189

www.Generac.com | 888-GENERAC (436-3722)

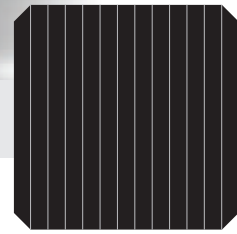
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Specifications are subject to change without notice.



LG NeON[®] 2 Black

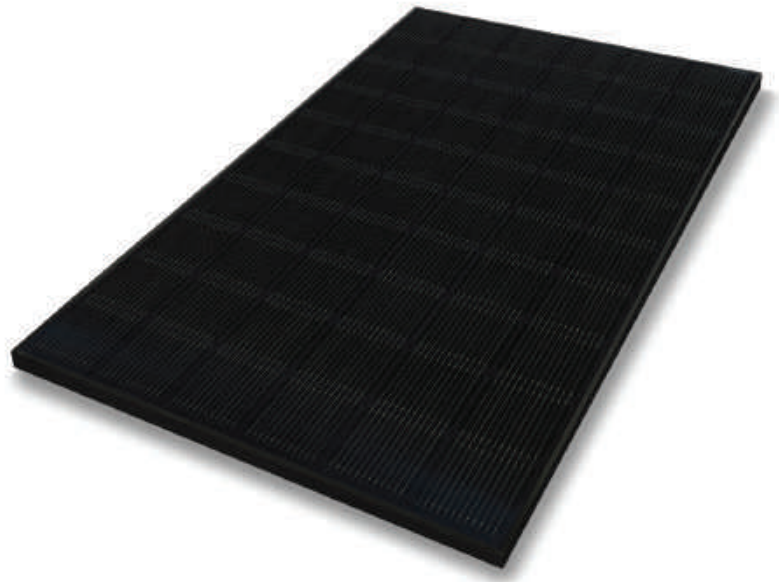
LG370N1K-A6



60

370W

The LG NeON[®] 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[®] 2 Black has an enhanced performance warranty. After 25 years, LG NeON[®] 2 Black is guaranteed at least 90.6% of initial performance.



25-Year Limited Product Warranty

The NeON[®] 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[®] 2 Black performs well on hot days due to its low temperature coefficient.



Roof Aesthetics

LG NeON[®] 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[®] series to the market, which is now available in 32 countries. The NeON[®] (previous MonoX[®] NeON), NeON[®]2, NeON[®]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: 1st year 98.5%, from 2-24th year: -0.33%/year down, 90.6% at year 25

Temperature Characteristics

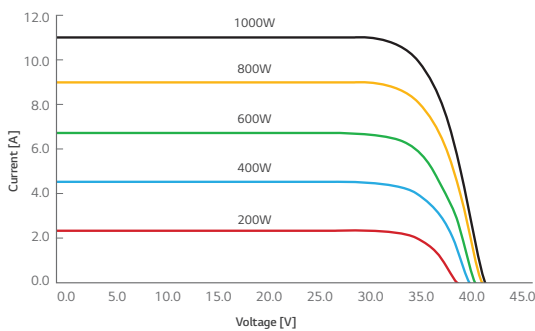
NMOT*	[°C]	42 ± 3
P _{max}	[%/°C]	-0.35
V _{oc}	[%/°C]	-0.26
I _{sc}	[%/°C]	0.03

*NMOT (Nominal Module Operating Temperature): Irradiance 800 W/m², Ambient temperature 20°C, Wind speed 1 m/s, Spectrum AM 1.5

Electrical Properties (NMOT)

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

I-V Curves



Electrical Properties (STC*)

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

*STC (Standard Test Condition): Irradiance 1000 W/m², cell temperature 25°C, AM 1.5
Measurement Tolerance of P_{max}: ± 3%

Operating Conditions

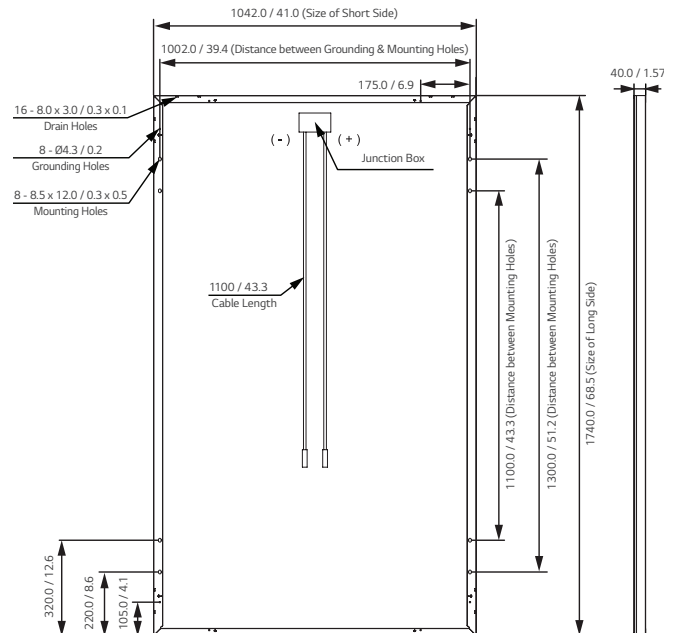
Operating Temperature	[°C]	-40 ~ +85
Maximum System Voltage	[V]	1,000 (UL/IEC)
Maximum Series Fuse Rating	[A]	20
Mechanical Test Load* (Front)	[Pa/psf]	5,400
Mechanical Test Load* (Rear)	[Pa/psf]	4,000

*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)





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.

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

NEW YORK
General Application Requirements (GAR)

1) Property Owner:

Name: Rachel Thompson
Address: 36 Kane Ave Larchmont, NY 10538
Phone: (929) 442-3323
Email: rachelthompson036@gmail.com

2) Cost of Construction:

Solar Panels L/M \$10,073.25
Electrical L/M \$8,241.75
Total L/M \$18,315.00

Grant Breakdown

NYSERDA: \$666.00
Federal: \$9,069.06
State: \$5,000.00

3) System Size 3330 KW Panel Qty: 9
Panel Type: lg Panel Size: 370

Generator: No Battery : YES
Type: _____ Type: Generac PWRCell 12kWh
Notes: _____ Notes: Cost \$ 17,232

Other:

4) Solar Panel Installed on Roof or Grade _____

if on grade, where would they be located:

Front : Rear : Side :

UTILITY Acc't #: 52-2414-0227-0002-7
 Meter #: 9510242

- 5) Email PDF Plans & Engineer Letter
- 6) Email Manufacturer Specs
- 7) Email Color Photos
- 8) Email Insurance Certificates (COI, Work Comp, Disability)
- 9) Bill To: NYPS



CERTIFICATE OF NYS WORKERS' COMPENSATION INSURANCE COVERAGE

Form with fields for: 1a. Legal Name & Address of Insured, 1b. Business Telephone Number of Insured, 1c. NYS Unemployment Insurance Employer Registration Number of Insured, 1d. Federal Employer Identification Number of Insured or Social Security Number, 2. Name and Address of Entity Requesting Proof of Coverage, 3a. Name of Insurance Carrier, 3b. Policy Number of Entity Listed in Box "1a", 3c. Policy effective period, 3d. The Proprietor, Partners or Executive Officers are

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 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.

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: Leonard Scioscia (Print name of authorized representative or licensed agent of insurance carrier)

Approved by: [Signature] 6/9/21 (Signature) (Date) Title: Authorized Representative

Telephone Number of authorized representative or licensed agent of insurance carrier: 631-390-9700

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.



CERTIFICATE OF INSURANCE COVERAGE DISABILITY AND PAID FAMILY LEAVE BENEFITS LAW

PART 1. To be completed by Disability and Paid Family Leave Benefits Carrier or Licensed Insurance Agent of that Carrier

1a. Legal Name & Address of Insured (use street address only) CATIZONE ELECTRICAL INC 575 LEXINGTON AVENUE, 4TH FLOOR NEW YORK, NY 10022 Work Location of Insured (Only required if coverage is specifically limited to certain locations in New York State, i.e., Wrap-Up Policy)	1b. Business Telephone Number of Insured 646-383-3599 1c. Federal Employer Identification Number of Insured or Social Security Number 45-5213112
2. Name and Address of Entity Requesting Proof of Coverage (Entity Being Listed as the Certificate Holder) Village of Larchmont 120 Larchmont Avenue Larchmont, NY 10538	3a. Name of Insurance Carrier Standard Security Life Insurance Company of New York 3b. Policy Number of Entity Listed in Box "1a" R97483-002 3c. Policy effective period <u>1/1/2020</u> to <u>8/10/2022</u>


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 licensed agent of the insurance carrier referenced above and that the named insured has NYS Disability and/or Paid Family Leave Benefits insurance coverage as described above.

Date Signed 8/11/2021 By 
(Signature of insurance carrier's authorized representative or NYS Licensed Insurance Agent of that insurance carrier)

Telephone Number (212) 355-4141 Name and Title SUPERVISOR-DBL/POLICY SERVICES

IMPORTANT: If Boxes 4A and 5A are checked, and this form is signed by the insurance carrier's authorized representative or NYS Licensed Insurance Agent of that carrier, this certificate is COMPLETE. Mail it directly to the certificate holder.

If Box 4B, 4C or 5B is checked, this certificate is NOT COMPLETE for purposes of Section 220, Subd. 8 of the NYS Disability and Paid Family Leave Benefits Law. It must be mailed for completion to the Workers' Compensation Board, Plans Acceptance Unit, PO Box 5200, Binghamton, NY 13902-5200.

PART 2. To be completed by the NYS Workers' Compensation Board (Only if Box 4C or 5B of Part 1 has been checked)

**State of New York
Workers' Compensation Board**

According to information maintained by the NYS Workers' Compensation Board, the above-named employer has complied with the NYS Disability and Paid Family Leave Benefits Law with respect to all of his/her employees.

Date Signed _____ By _____
(Signature of Authorized NYS Workers' Compensation Board Employee)

Telephone Number _____ Name and Title _____

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



CERTIFICATE OF WORKERS' COMPENSATION INSURANCE

^ ^ ^ ^ ^ ^ 271175107

LOVELL SAFETY MGMT CO., LLC
110 WILLIAM STREET 12TH FLR
NEW YORK NY 10038



SCAN TO VALIDATE
AND SUBSCRIBE

POLICYHOLDER LONG ISLAND POWER SOLUTIONS INC 2060 OCEAN AVENUE RONKONKOMA NY 11779		CERTIFICATE HOLDER VILLAGE OF LARCHMONT 120 LARCHMONT AVENUE LARCHMONT NY 10538	
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POLICY NUMBER Z 2467 078-8	CERTIFICATE NUMBER 146866	POLICY PERIOD 04/01/2021 TO 04/01/2022	DATE 03/09/2021
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THIS IS TO CERTIFY THAT THE POLICYHOLDER NAMED ABOVE IS INSURED WITH THE NEW YORK STATE INSURANCE FUND UNDER POLICY NO. 2467 078-8, COVERING THE ENTIRE OBLIGATION OF THIS POLICYHOLDER FOR WORKERS' COMPENSATION UNDER THE NEW YORK WORKERS' COMPENSATION LAW WITH RESPECT TO ALL OPERATIONS IN THE STATE OF NEW YORK, EXCEPT AS INDICATED BELOW.

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

THIS POLICY DOES NOT COVER CLAIMS OR SUITS THAT ARISE FROM BODILY INJURY SUFFERED BY THE OFFICERS OF THE INSURED CORPORATION.

PRESIDENT
MICHAEL CATIZONE
VICE PRESIDENT
JOSEPH MILILLO
TWO OF TWO OFFICERS
LONG ISLAND POWER SOLUTIONS INC

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

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

NEW YORK STATE INSURANCE FUND

DIRECTOR, INSURANCE FUND UNDERWRITING

VALIDATION NUMBER: 664150432





CERTIFICATE OF INSURANCE COVERAGE DISABILITY AND PAID FAMILY LEAVE BENEFITS LAW

PART 1. To be completed by Disability and Paid Family Leave Benefits Carrier or Licensed Insurance Agent of that Carrier

<p>1a. Legal Name & Address of Insured (use street address only) LONG ISLAND POWER SOLUTIONS INC DBA NEW YORK POWER SOLUTIONS 2060 OCEAN AVE RONKONKOMA, NY 11779</p> <p>Work Location of Insured (Only required if coverage is specifically limited to certain locations in New York State, i.e., Wrap-Up Policy)</p>	<p>1b. Business Telephone Number of Insured 6313480001</p> <p>1c. Federal Employer Identification Number of Insured or Social Security Number 27-1175107</p>
<p>2. Name and Address of Entity Requesting Proof of Coverage (Entity Being Listed as the Certificate Holder) Village of Larchmont 120 Larchmont Avenue Larchmont, NY 10538</p>	<p>3a. Name of Insurance Carrier Standard Security Life Insurance Company of New York</p> <p>3b. Policy Number of Entity Listed in Box "1a" R97411-000</p> <p>3c. Policy effective period <u>1/1/2015</u> to <u>8/11/2022</u></p>

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 licensed agent of the insurance carrier referenced above and that the named insured has NYS Disability and/or Paid Family Leave Benefits insurance coverage as described above.

Date Signed 8/12/2021 By 
(Signature of insurance carrier's authorized representative or NYS Licensed Insurance Agent of that insurance carrier)

Telephone Number (212) 355-4141 Name and Title SUPERVISOR-DBL/POLICY SERVICES

IMPORTANT: If Boxes 4A and 5A are checked, and this form is signed by the insurance carrier's authorized representative or NYS Licensed Insurance Agent of that carrier, this certificate is COMPLETE. Mail it directly to the certificate holder.

If Box 4B, 4C or 5B is checked, this certificate is NOT COMPLETE for purposes of Section 220, Subd. 8 of the NYS Disability and Paid Family Leave Benefits Law. It must be mailed for completion to the Workers' Compensation Board, Plans Acceptance Unit, PO Box 5200, Binghamton, NY 13902-5200.

PART 2. To be completed by the NYS Workers' Compensation Board (Only if Box 4C or 5B of Part 1 has been checked)

**State of New York
Workers' Compensation Board**

According to information maintained by the NYS Workers' Compensation Board, the above-named employer has complied with the NYS Disability and Paid Family Leave Benefits Law with respect to all of his/her employees.

Date Signed _____ By _____
(Signature of Authorized NYS Workers' Compensation Board Employee)

Telephone Number _____ Name and Title _____

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




State of New York
County of Westchester

OWNER AUTHORIZATION AFFIDAVIT

Premise: 36 Kane Ave, Larchmont NY 10538

Section: _____ Block: _____ Lot: _____

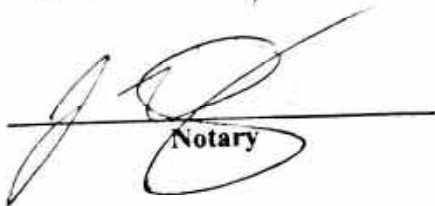
I, Rachel Thompson, am the owner of the above stated premise and hereby authorize Michael Miele of **Michael E. Miele, PE (Owner.)**, with its office at 705 Orrs Mills Road, New Windsor, NY 12553, to act as our authorized agent for the purpose of accessing town records, submitting permit applications, 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 3

Day of January 2022



Notary

