James A. Koppenhaver, P.E. 304 Logan Avenue, Wyomissing, PA 19610 (484) 794-9949 koppenhaverpe@gmail.com

October 22, 2020

Location:	Scott Univer 88 Whippoorwill Rd E Armonk, NY 10504
Installer:	Mr. Anthony Sicari, New York State Solar Farm 871 State Route, #208, Gardiner, NY, 12525

Re: Structural Certification for Solar Energy System's Rooftop Appurtenances

To Whom It May Concern:

The purpose of this letter is to certify that the existing roof framing is adequate to support the additional loads from solar panels at the above location.

I have evaluated the structural wood framing of the existing roof with the additional loading to account for the proposed solar panel application. Deflection and stresses of the structural components remain within the allowable for the existing roof. Compliance Method is through an Engineered Design in accordance with the 2020 Residential Code of New York State and Risk Category II for Wind Pressures from 115 mph, 3-sec. gust, Exposure B, and a Ground Snow Load of 30 psf. Mounting locations and methods are as indicated in our plan submission.

The existing structure is certified to be structurally adequate to support the reactions of the solar panels in addition to the original design loading. The support of the solar modules is chassis with ballast blocks. The total dead load of the solar modules, chassis and ballast blocks is 5.27 psf. The existing roof membrane is fully adhered, over the original roof and structural design included ballast stones. The existing steel roof joists can support 20 psf live load or flat roof snow load, 7 psf roof membrane, insulation, and decking, 3psf MEP loads, and 6 psf for the solar panel system.

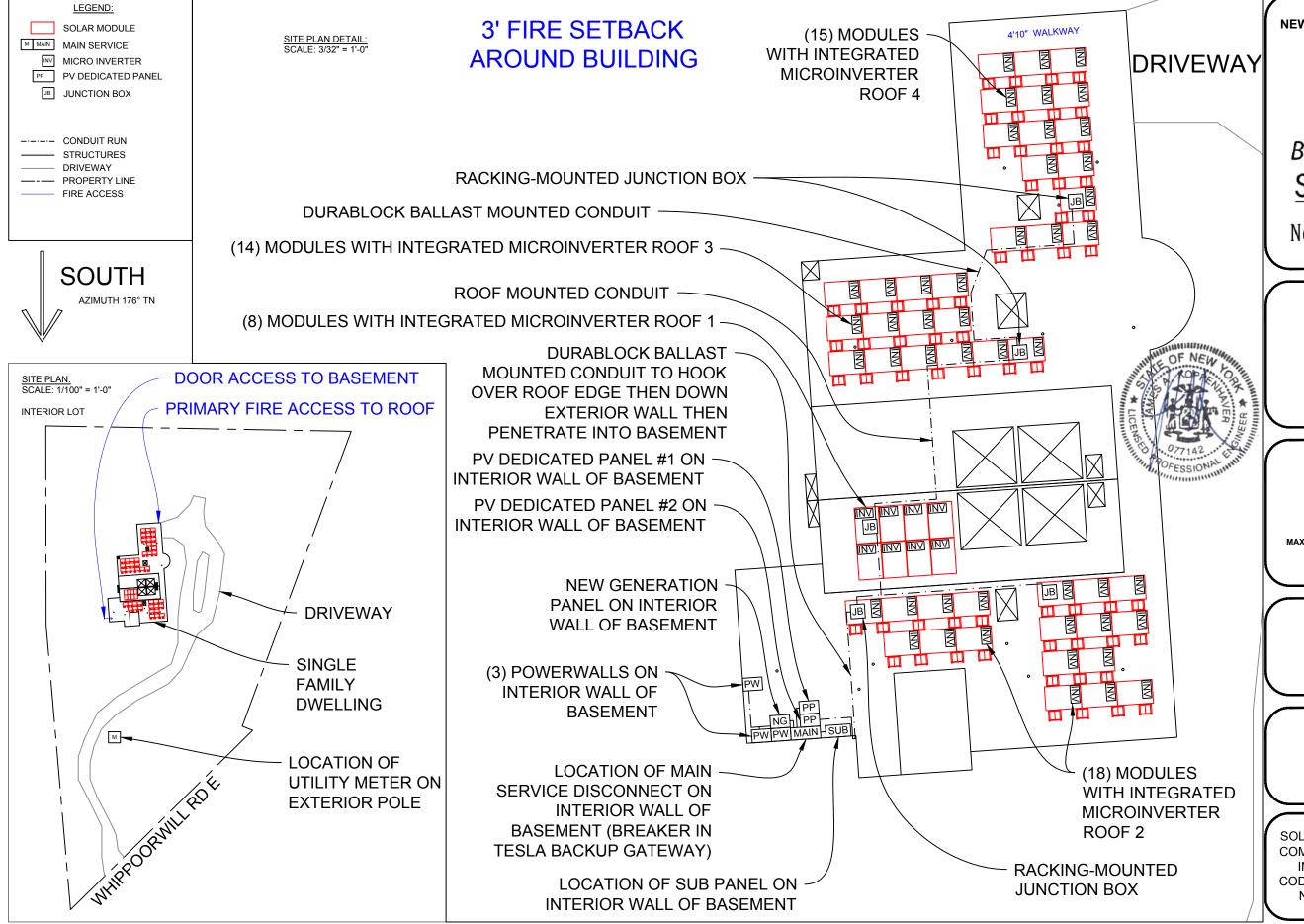
Taking into consideration the risk to building and land, it is my professional opinion, with a reasonable degree of engineering certainty and probability, that the structural integrity of the roof framing will remain sound with the solar panel installation. Should you have any questions with regard to the information contained in this letter, please do not hesitate to contact me.

Submitted,



PA35748E NY77142 CT29571 NJ32140 MD16053 OH78077 FL71888 VA402052001

CONFORMING TO 2020 RESIDENTIAL CODE OF NEW YORK STATE & 2017 NEC



NEW YORK STATE SOLAR FARM INC.

871 STATE ROUTE 208

GARDINER, NY 12525 USA

PHONE: 1.877.SOLAR.95

Buy**S**#larLocal.com

by New York State Solar Farm

> CUSTOMER: SCOTT UNIVER RESIDENCE 88 WHIPPOORWILL RD E ARMONK, NY 10504

PV SYSTEM CONFIGURATION: SYSTEM SIZE: 17.6 kW DC SYSTEM SIZE: 17.325 kW AC PV MODULES:(55) SUNPOWER E19-320-E-AC MICRO INVERTER: (5 BRANCHES)

BATTERY BACKUP: (3) TESLA POWERWALL 2 MAX CONTINUOUS POWER: 5kW PER POWERWALL

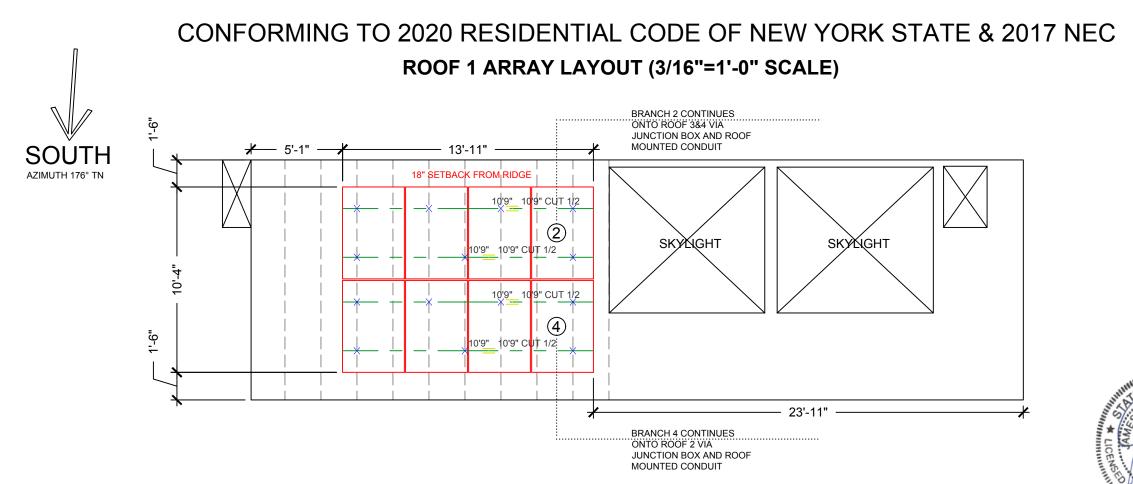
TOTAL PV + BATTERY: 32.325 kW AC

DRAWN BY: NYSOLAR-AS DATE: 10-14-2020 REV: 0 INSTALLER CODE: 0

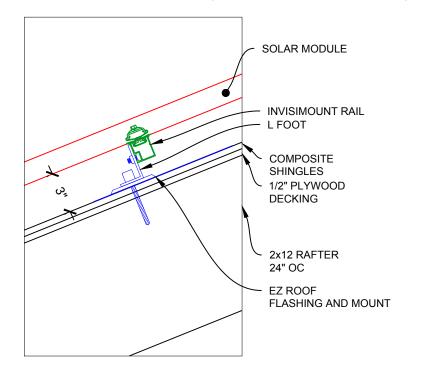
SHEET #: PV1 SHEET TITLE: SITE PLAN 1 OF 10 SHEETS

SCALE: LISTED

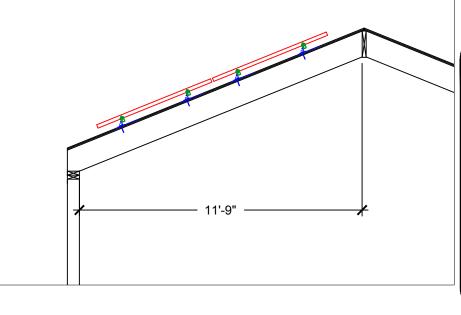
SOLAR ARRAYS AND THEIR SYSTEM COMPONENTS SHALL BE INSTALLED IN CONJUNCTION WITH LOCAL CODES, 2020 RESIDENTIAL CODE OF NEW YORK STATE & 2017 NEC



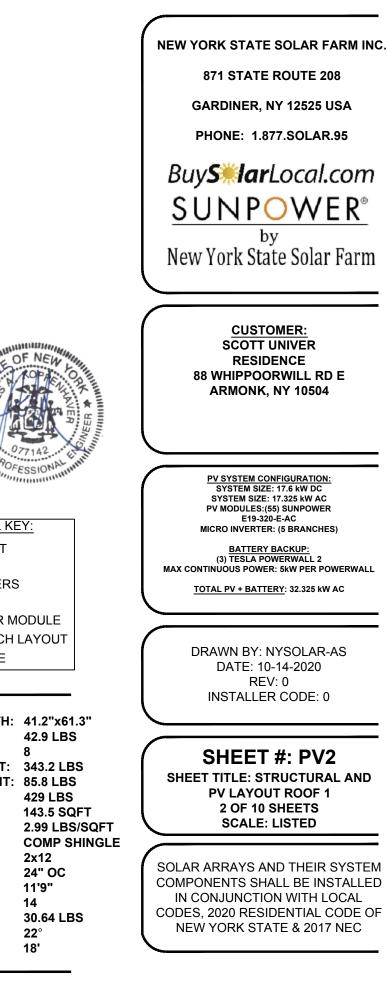
MOUNT DETAIL (1-1/2" = 1'-0"SCALE)

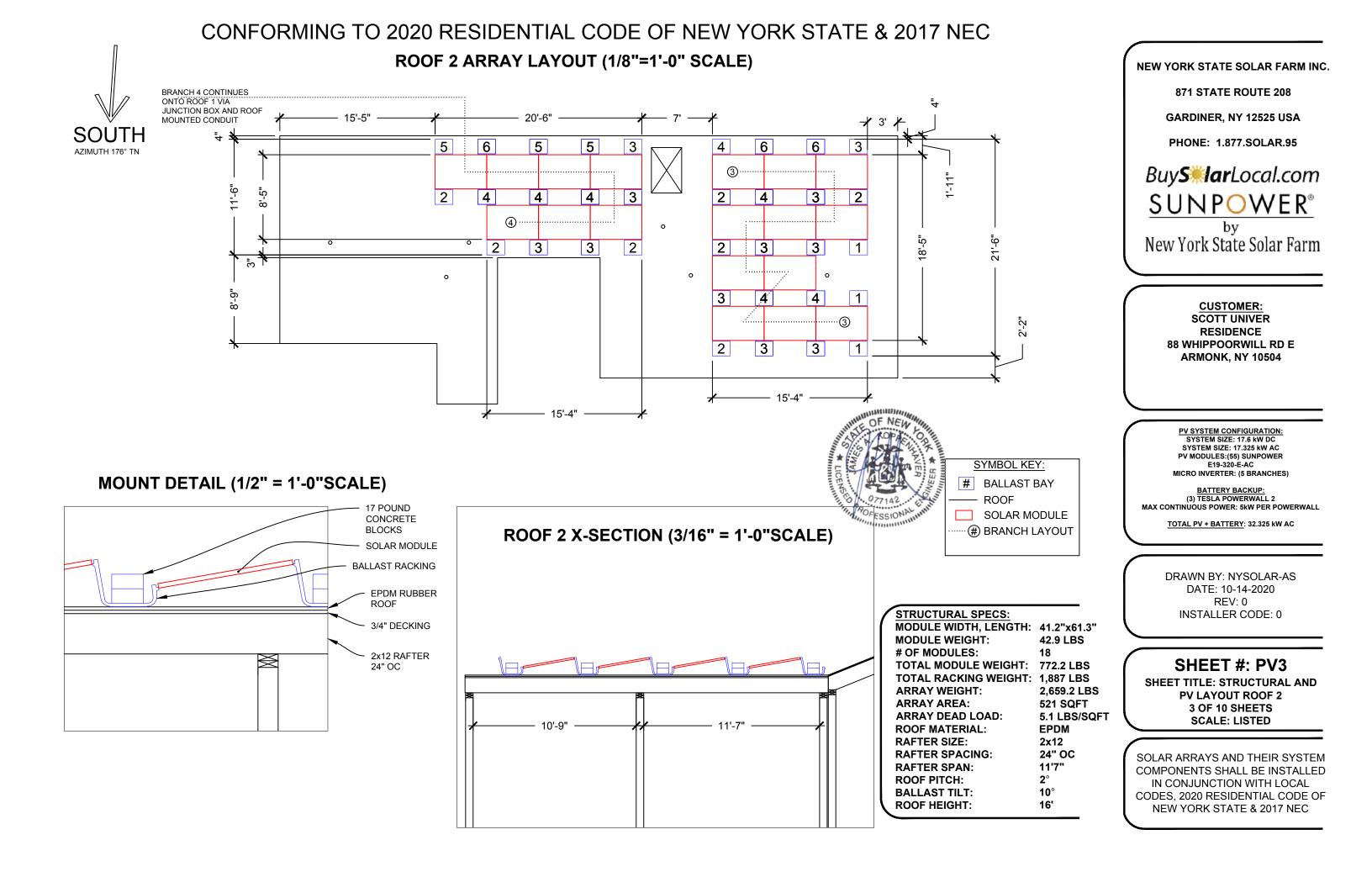


ROOF 1 ATTIC X SECTION (1/4" = 1'-0"SCALE)

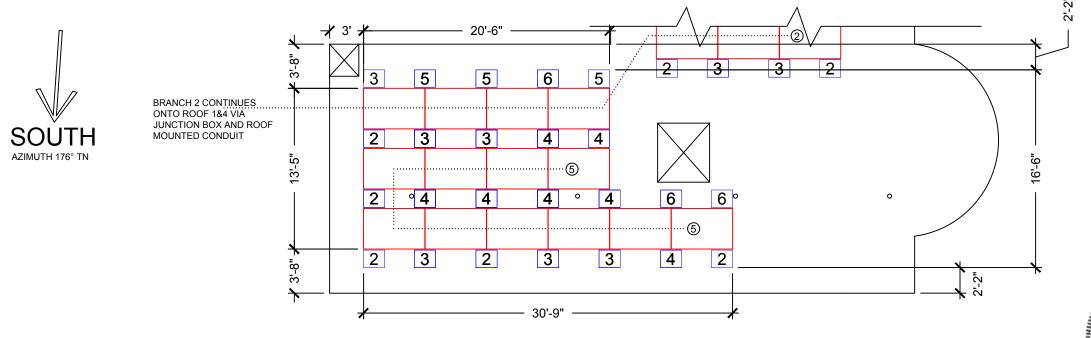


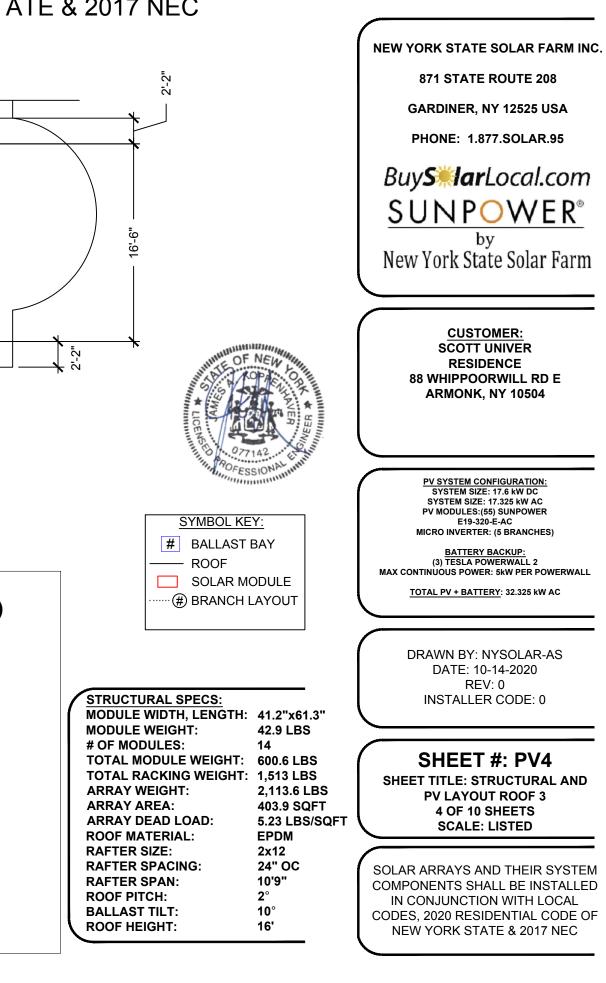
STRUCTURAL SPECS: MODULE WIDTH, LENGTH: 41.2"x61.3" **MODULE WEIGHT: # OF MODULES:** TOTAL MODULE WEIGHT: 343.2 LBS TOTAL RACKING WEIGHT: 85.8 LBS ARRAY WEIGHT: ARRAY AREA: ARRAY DEAD LOAD: **ROOF MATERIAL: RAFTER SIZE: RAFTER SPACING: RAFTER SPAN:** NUMBER OF MOUNTS: LOAD PER MOUNT: **ROOF PITCH: ROOF HEIGHT:**



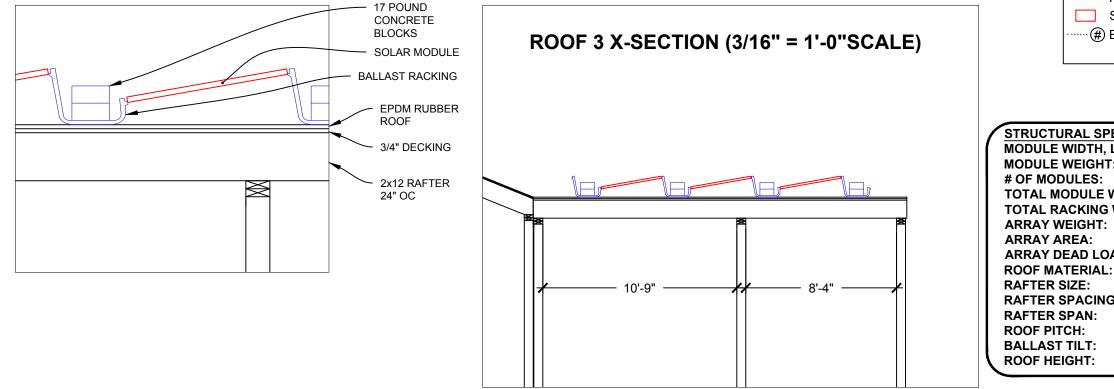


CONFORMING TO 2020 RESIDENTIAL CODE OF NEW YORK STATE & 2017 NEC ROOF 3 ARRAY LAYOUT (1/8"=1'-0" SCALE)

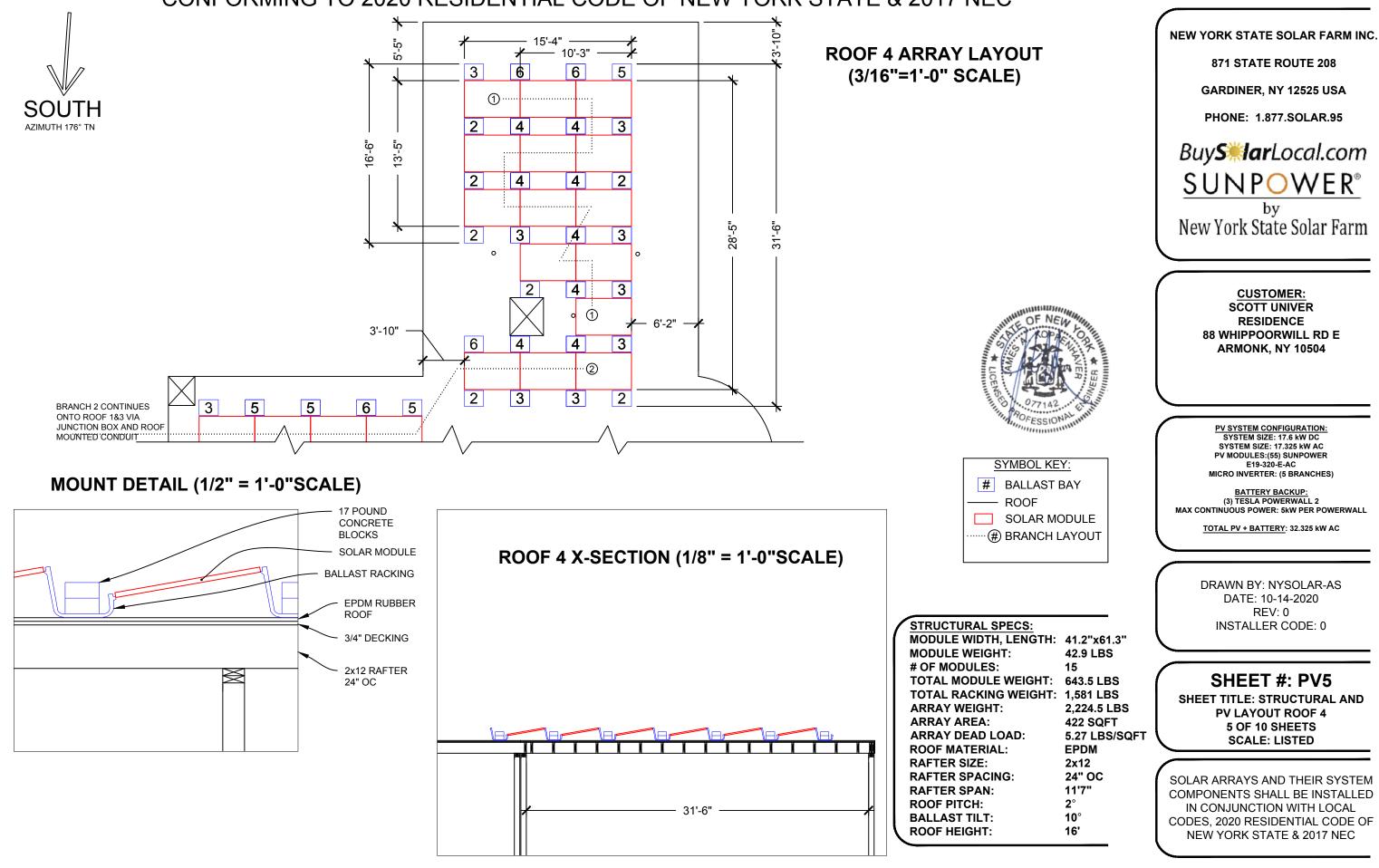




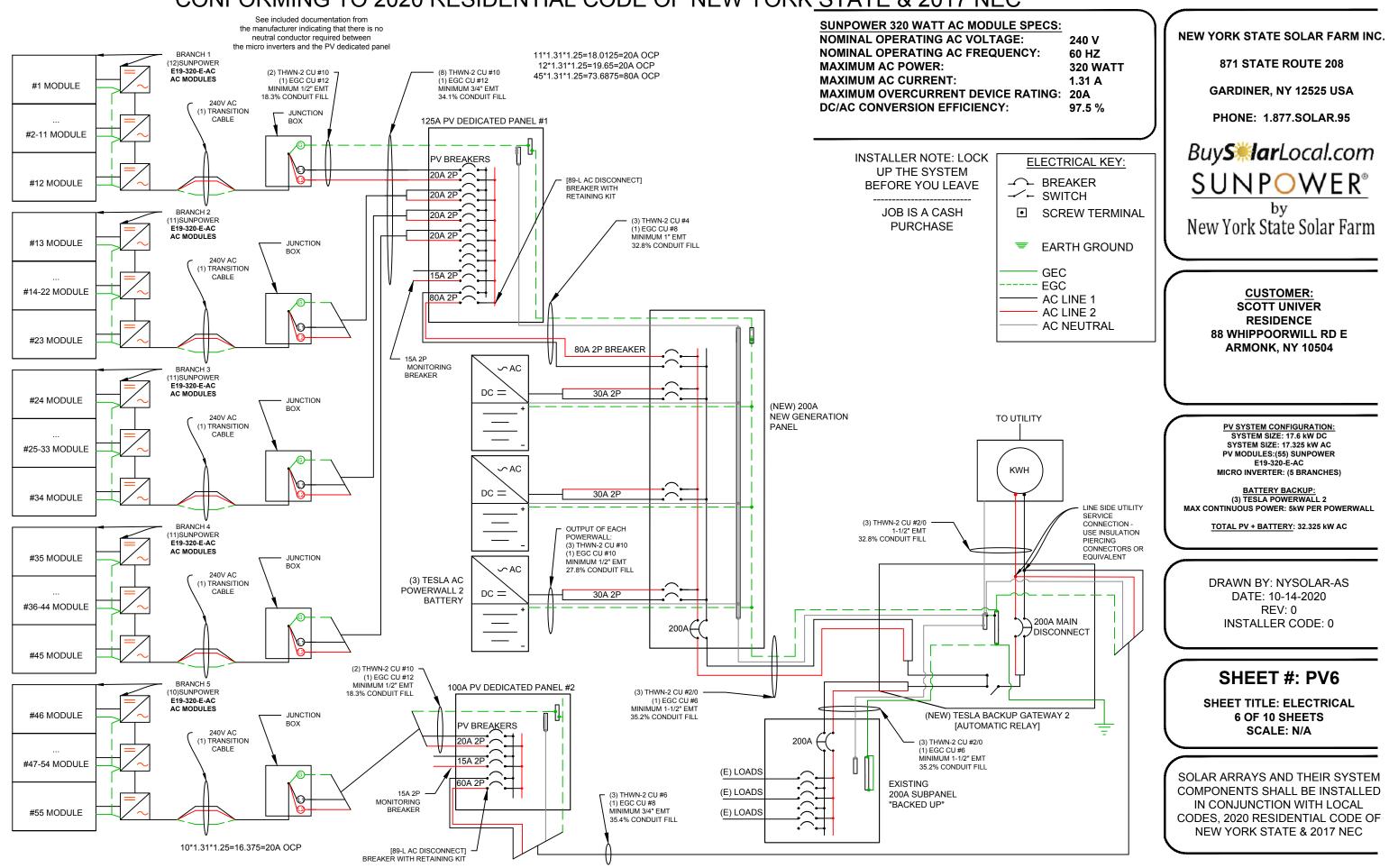
MOUNT DETAIL (1/2" = 1'-0"SCALE)



CONFORMING TO 2020 RESIDENTIAL CODE OF NEW YORK STATE & 2017 NEC



CONFORMING TO 2020 RESIDENTIAL CODE OF NEW YORK STATE & 2017 NEC



NEC 690.35(F) NEW YORK STATE SOLAR FARM INC. PLACE THIS LABEL AT EACH JUNCTION BOX, COMBINER BOX, INVERTER AND DEVICE WHERE ENERGIZED, **871 STATE ROUTE 208** UNGROUNDED CIRCUITS MAY BE EXPOSED DURING GARDINER, NY 12525 USA SERVICE. PHONE: 1.877.SOLAR.95 WARNING ELECTRIC SHOCK HAZARD Buy**Silar**Local.com THE DC CONDUCTORS OF THIS **SUNPOWER**[®] PHOTOVOLTAIC SYSTEM ARE UNGROUNDED AND MAY BE ENERGIZED by New York State Solar Farm **CUSTOMER:** SCOTT UNIVER RESIDENCE **88 WHIPPOORWILL RD E ARMONK, NY 10504 RAPID SHUTDOWN SWITCH** PV SYSTEM CONFIGURATION: SYSTEM SIZE: 17.6 kW DC FOR SOLAR PV SYSTEM SYSTEM SIZE: 17.325 kW AC PV MODULES:(55) SUNPOWER E19-320-E-AC MICRO INVERTER: (5 BRANCHES) **SOLAR PV SYSTEM EQUIPPED** BATTERY BACKUP: (3) TESLA POWERWALL 2 WITH RAPID SHUTDOWN MAX CONTINUOUS POWER: 5kW PER POWERWALL TOTAL PV + BATTERY: 32.325 kW AC TURN RAPID SHUTDOWN OLAR ELECTR SWITCH TO THE PV PANELS **"OFF" POSITION TO** DRAWN BY: NYSOLAR-AS SHUTDOWN PV SYSTEM DATE: 10-14-2020 AND REDUCE REV: 0 SHOCK HAZARD **INSTALLER CODE: 0 IN ARRAY** SHEET #: PV7 SHEET TITLE: LABELS **RAPID SHUTDOWN:** 7 OF 10 SHEETS SCALE: N/A PHOTOVOLTAIC SYSTEM SOLAR ARRAYS AND THEIR SYSTEM EQUIPPED WITH COMPONENTS SHALL BE INSTALLED **RAPID SHUTDOWN** IN CONJUNCTION WITH LOCAL CODES, 2020 RESIDENTIAL CODE OF NEW YORK STATE & 2017 NEC

NEC 690.31 (E) 3 & 4 PLACE ON ALL JUNCTION BOXES EXPOSED **RACEWAYS EVERY 10'**

PHOTOVOLTAIC **POWER SOURCE**

NEC 690.54 PLACE THIS LABEL AT "INTERACTIVE POINT OF INTERCONNECTION" (AT MAIN SERVICE PANEL AND SUBPANEL IF APPLICABLE)

INTERACTIVE PHOTOVOLTAIC POWER SOURCE RATED AC OUTPUT CURRENT (A): 72.05 A NOMINAL OPERATING AC VOLTAGE (V): 240 V

> NEC 690.52 PLACE THIS LABEL ON SERVICE DISTRIBUTION EQUIPMENT

SUNPOWER 320 WATT AC MODULE SPECS:

NOMINAL OPERATING AC VOLTAGE:	240 V
NOMINAL OPERATING AC FREQUENCY:	60 HZ
MAXIMUM AC POWER:	320 WATT
MAXIMUM AC CURRENT:	1.31 A
MAXIMUM OVERCURRENT DEVICE RATING:	20A
DC/AC CONVERSION EFFICIENCY:	97.5 %

NEC 705.12(D)(4) PLACE THIS LABEL ON ALL EQUIPMENT CONTAINING OVERCURRENT DEVICES IN CIRCUITS SUPPLYING POWER TO A BUSBAR OR CONDUCTORS SUPPLIED FROM MULTIPLE SOURCES.

> CAUTION **CONTAINS MULTIPLE POWER** SOURCES

NEC 690.5(c) PLACE THIS LABEL ON INVERTER(S) OR NEAR GROUND-FAULT INDICATOR (ON INVERTER(S) U.O.N.)

WARNING

ELECTRIC SHOCK HAZARD IF A GROUND FAULT IS INDICATED. NORMALLY GROUNDED CONDUCTORS MAY BE UNGROUNDED AND ENERGIZED

NEC 690.17 PLACE THIS LABEL ON **ALL** DISCONNECTING MEANS WHERE ENERGIZED IN AN OPEN POSITION

> WARNING **ELECTRIC SHOCK HAZARD** DO NOT TOUCH TERMINALS **TERMINALS ON BOTH THE** LINE AND LOAD SIDE MAY BE ENERGIZED IN THE **OPEN POSITION**

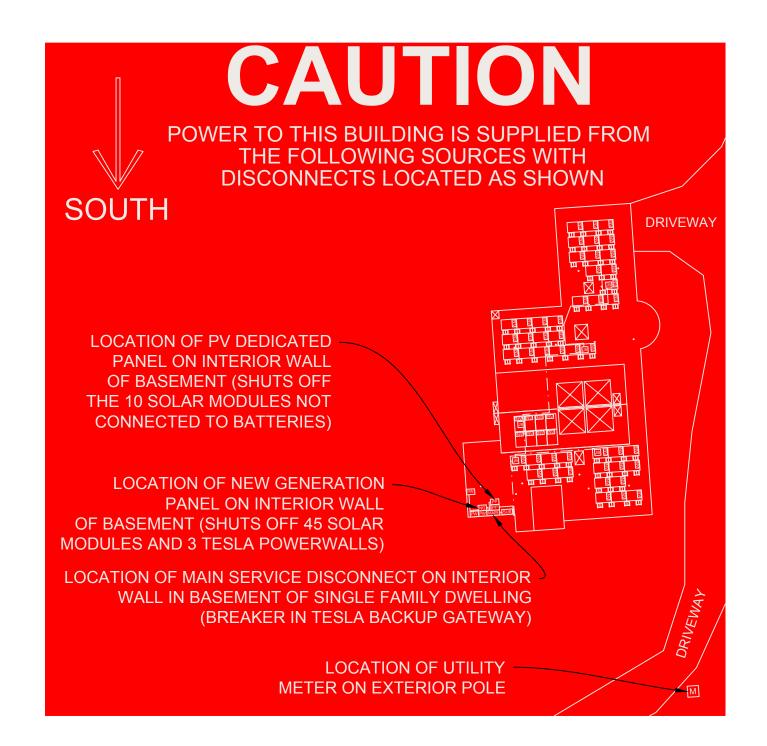
NEC 705.12(D)(7) PLACE THIS LABEL AT P.O.C. TO SERVICE DISTRIBUTION EQUIPMENT (I.E. MAIN PANEL (AND SUBPANEL IF APPLICABLE))

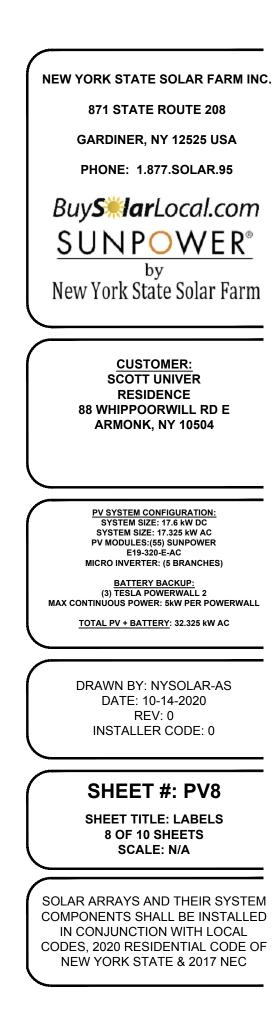
WARNING INVERTER OUTPUT CONNECTION DO NOT RELOCATE THIS **OVERCURRENT DEVICE**



NEC 690.14(D)(4) LINKS TO 705.10 DIRECTORY

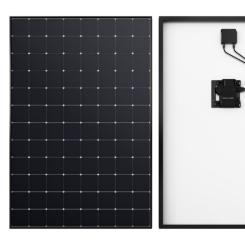
A permanent plaque or directory denoting all electric power sources on or in the premises must be installed at each service equipment location and all interconnected electric power production sources.





SUNPOWER[®]





SunPower[®] E-Series: E20-327 | E19-320

SunPower[®] Residential AC Module

Built specifically for use with the SunPower Equinox[™] system, the only fully integrated solution designed, engineered, and warranted by one manufacturer.



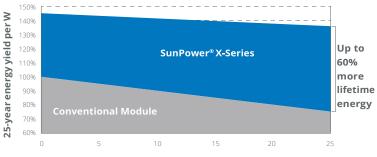
Maximum Power. Minimalist Design.

Industry-leading efficiency means more power and savings per available space. With fewer modules required and hidden microinverters, less is truly more.



Highest Lifetime Energy and Savings.

Designed to deliver 60% more energy over 25 years in real-world conditions like partial shade and high temperatures.¹

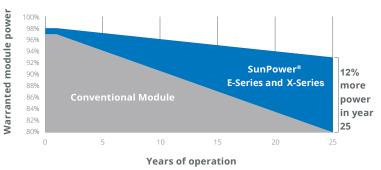


Years of operation

Best Reliability. Best Warranty.

With more than 25 million modules deployed around the world, SunPower technology is proven to last. That's why we stand behind our module and microinverter with the industry's best 25-year Combined Power and Product Warranty, including the highest Power Warranty in solar.





Fundamentally Different. And Better.



The SunPower[®] Maxeon[®] Solar Cell

- Enables highest-efficiency modules available. ²
- Unmatched reliability ³
- Patented solid metal foundation prevents breakage and corrosion



Factory-integrated Microinverter

- Simpler, faster installation
- Integrated wire management, rapid shutdown
- Engineered and calibrated by SunPower for SunPower modules



E-Series: E20-327 | E19-320 SunPower® Residential AC Module

	AC Electrical Data	
Inverter Model: Enphase IQ 7XS (IQ7XS-96-ACM-US)	@240 VAC	@208 VAC
Peak Output Power	320 VA	320 VA
Max. Continuous Output Power	315 VA	315 VA
Nom. (L–L) Voltage/Range ² (V)	240 / 211–264	208 / 183-229
Max. Continuous Output Current (A)	1.31	1.51
Max. Units per 20 A (LL) Branch Circuit ³	12 (single phase)	10 (two pole) wye
CEC Weighted Efficiency	97.5%	97.0%
Nom. Frequency	60	Hz
Extended Frequency Range	47-1	68 Hz
AC Short Circuit Fault Current Over 3 Cycles	5.8 /	A rms
Overvoltage Class AC Port		
AC Port Backfeed Current	18 r	mA
Power Factor Setting	1.()
Power Factor (adjustable)	0.7 lead	. / 0.7 lag.

No active phase balancing for three-phase installations

DC Power Data			
	SPR-E20-327-E-AC	SPR-E19-320-E-AC	
Nom. Power ⁵(Pnom)	327 W	320 W	
Power Tol.	+5/-0%	+5/-0%	
Module Efficiency	20.4%	19.9%	
Temp. Coef. (Power)	-0.35%/°C	-0.35%/°C	
Shade Tol.	 Three bypass diodes Integrated module-lepower point tracking 	evel maximum	
Tested Operating Conditions			
Τe	ested Operating Co	nditions	
Te Operating Temp.	ested Operating Con -40°F to +185°F (-40°		
	1 0		
Operating Temp.	-40°F to +185°F (-40' 122°F (50°C)	°C to +85°C) , 305 kg/m² front & back	
Operating Temp. Max. Ambient Temp.	-40°F to +185°F (-40° 122°F (50°C) Wind: 62 psf, 3000 Pa Snow: 125 psf, 6000 F	°C to +85°C) , 305 kg/m² front & back	
Operating Temp. Max. Ambient Temp. Max. Load	-40°F to +185°F (-40° 122°F (50°C) Wind: 62 psf, 3000 Pa Snow: 125 psf, 6000 F	°C to +85°C) , 305 kg/m² front & back ²a, 611 kg/m² front tter hail at 52 mph (23 m/s)	

Solar Cells	90 Monoci ystalline Maxeon Gen III
Front Glass	High-transmission tempered glass with anti-reflective coating
Environmental Rating	Outdoor rated
Frame	Class 1 black anodized (highest AAMA rating)
Weight	42.9 lbs (19.5 kg)
Recommended Max. Module Spacing	1.3 in. (33 mm)

1 SunPower 360 W compared to a conventional module on same-sized arrays (260 W, 16% efficient, approx. 1.6 m²), 4% more energy per watt (based on third-party module characterization and PVSim), 0.75%/yr slower degradation (Campeau, Z. et al. "SunPower Module Degradation Rate," SunPower white paper, 2013).

2 Based on search of datasheet values from websites of top 10 manufacturers per IHS, as of January 2017.

3 #1 rank in "Fraunhofer PV Durability Initiative for Solar Modules: Part 3." PVTech Power Magazine, 2015. Campeau, Z. et al. "SunPower Module Degradation Rate," SunPower white paper, 2013.

4 Factory set to 1547a-2014 default settings. CA Rule 21 default settings profile set during commissioning. See the Equinox Installation Guide #518101 for more information. 5 Standard Test Conditions (1000 W/m² irradiance, AM 1.5, 25°C). NREL calibration standard: SOMS current, LACCS FF and voltage. All DC voltage is fully contained within the

module. 6 This product is UL Listed as PVRSE and conforms with NEC 2014 and NEC 2017 690.12; and C22.1-2015 Rule 64-218 Rapid Shutdown of PV Systems, for AC and DC conductors; when installed according to manufacturer's instructions.

See www.sunpower.com/facts for more reference information.

For more details, see extended datasheet www.sunpower.com/datasheets Specifications included in this datasheet are subject to change without notice. ©2018 SunPower Corporation. All Rights Reserved. SUNPOWER, the SUNPOWER logo and MAXEON are registered trademarks of SunPower Corporation in the U.S. and other countries as well. 1-800-SUNPOWER.

	Warranties, Certifications, and Compliance	
Warranties	 25-year limited power warranty 25-year limited product warranty 	
Certifications and Compliance	 UL 1703 UL 1741 / IEEE-1547 UL 1741 AC Module (Type 2 fire rated) UL 62109-1 / IEC 62109-2 FCC Part 15 Class B ICES-0003 Class B CAN/CSA-C22.2 NO. 107.1-01 CA Rule 21 (UL 1741 SA)⁴ (includes Volt/Var and Reactive Power Priority) UL Listed PV Rapid Shutdown Equipment⁶ 	
	Enables installation in accordance with: • NEC 690.6 (AC module) • NEC 690.12 Rapid Shutdown (inside and outside the array) • NEC 690.15 AC Connectors, 690.33(A)–(E)(1)	
	When used with InvisiMount racking and InvisiMount accessories (UL 2703): • Module grounding and bonding through InvisiMount • Class A fire rated When used with AC module Q Cables and accessories (UL 6703 - UL 2238) ⁶ : • Rated for load break disconnect	
PID Test	Potential-induced degradation free	
	1558 mm (61.3 in.)	
3 mm 5.5 in.)	1046 mm (1.8 in.) (41.2 in.) (1.2 i	

POWERWALL

Backup Gateway 2

The Backup Gateway 2 for Tesla Powerwall provides energy management and monitoring for solar self-consumption, time-based control, and backup.

The Backup Gateway 2 controls connection to the grid, automatically detecting outages and providing a seamless transition to backup power. When equipped with a main circuit breaker, the Backup Gateway 2 can be installed at the service entrance. When the optional internal panelboard is installed, the Backup Gateway 2 can also function as a load center.

The Backup Gateway 2 communicates directly with Powerwall, allowing you to monitor energy use and manage backup energy reserves from any mobile device with the Tesla app.



PERFORMANCE SPECIFICATIONS

120/240V
Split Phase
60 Hz
200 A
10 kA1
100-200A; Service Entrance Rated ¹
Category IV
Revenue accurate (+/- 0.2 %)
Ethernet, Wi-Fi
Cellular (3G, LTE/4G) ²
Tesla App
Support for solar self-consumption, time-based control, backup, and off-grid
Automatic disconnect for seamless backup
Supports up to 10 AC-coupled Powerwalls
200A 6-space / 12 circuit Eaton BR Circuit Breakers
10 years

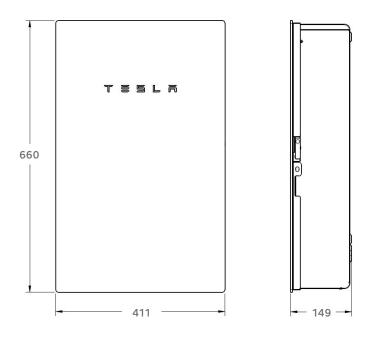
¹When protected by Class J fuses, Backup Gateway 2 is suitable for use in circuits capable of delivering not more than 22kA symmetrical amperes. ² The customer is expected to provide internet connectivity for Backup Gateway 2; cellular should not be used as the primary mode of connectivity. Cellular connectivity subject to network operator service coverage and signal strength.

COMPLIANCE INFORMATION

Certifications	UL 67, UL 869A, UL 916, UL 1741 PCS CSA 22.2 0.19, CSA 22.2 205
Emissions	FCC Part 15, ICES 003

MECHANICAL SPECIFICATIONS

Dimensions	660 mm x 411 mm x 149 mm (26 in x 16 in x 6 in)
Weight	20.4 kg (45 lb)
Mounting options	Wall mount, Semi-flush mount



ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-20°C to 50°C (-4°F to 122°F)
Operating Humidity (RH)	Up to 100%, condensing
Maximum Elevation	3000 m (9843 ft)
Environment	Indoor and outdoor rated
Enclosure Type	NEMA 3R

POWERWALL

Tesla Powerwall is a fully-integrated AC battery system for residential or light commercial use. Its rechargeable lithium-ion battery pack provides energy storage for solar self-consumption, time-based control, and backup.

Powerwall's electrical interface provides a simple connection to any home or building. Its revolutionary compact design achieves market-leading energy density and is easy to install, enabling owners to quickly realize the benefits of reliable, clean power.



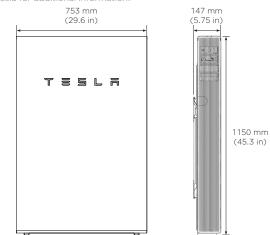
PERFORMANCE SPECIFICATIONS

AC Voltage (Nominal)	120/240 V
Feed-In Type	Split Phase
Grid Frequency	60 Hz
Total Energy ¹	14 kWh
Usable Energy ¹	13.5 kWh
Real Power, max continuous ²	5 kW (charge and discharge)
Real Power, peak (10s, off-grid/backup) ²	7 kW (charge and discharge)
Apparent Power, max continuous	5.8 kVA (charge and discharge)
Apparent Power, peak (10s, off-grid/backup)	7.2 kVA (charge and discharge)
Maximum Supply Fault Current	10 kA
Maximum Output Fault Current	32 A
Overcurrent Protection Device	30 A
Imbalance for Split-Phase Loads	100%
Power Factor Output Range	+/- 1.0 adjustable
Power Factor Range (full-rated power)	+/- 0.85
Internal Battery DC Voltage	50 V
Round Trip Efficiency ^{1,3}	90%
Warranty	10 years

MECHANICAL SPECIFICATIONS

Dimensions ¹	1150 mm x 753 mm x 147 mm (45.3 in x 29.6 in x 5.75 in)
Weight ¹	114 kg (251.3 lbs)
Mounting options	Floor or wall mount

¹Dimensions and weight differ slightly if manufactured before March 2019. Contact Tesla for additional information.



ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-20°C to 50°C (-4°F to 122°F)
Recommended Temperature	0°C to 30°C (32°F to 86°F)
Operating Humidity (RH)	Up to 100%, condensing
Storage Conditions	-20°C to 30°C (-4°F to 86°F) Up to 95% RH, non-condensing State of Energy (SoE): 25% initial
Maximum Elevation	3000 m (9843 ft)
Environment	Indoor and outdoor rated
Enclosure Type	NEMA 3R
Ingress Rating	IP67 (Battery & Power Electronics) IP56 (Wiring Compartment)
Wet Location Rating	Yes
Noise Level @ 1m	< 40 dBA at 30°C (86°F)

¹Values provided for 25°C (77°F), 3.3 kW charge/discharge power. ²In Backup mode, grid charge power is limited to 3.3 kW. ³AC to battery to AC, at beginning of life.

COMPLIANCE INFORMATION

Certifications	UL 1642, UL 1741, UL 1973, UL 9540, IEEE 1547, UN 38.3
Grid Connection	Worldwide Compatibility
Emissions	FCC Part 15 Class B, ICES 003
Environmental	RoHS Directive 2011/65/EU
Seismic	AC156, IEEE 693-2005 (high)

ROOFMOUNT | RM10

RM10 introduced the Power of Speed & Simplicity to the ballasted flat roof solar industry. The system consists of only two major components, minimizing installation time. Quickly design around roof obstacles and bond the system with just the turn of a wrench. Optional roof attachments, roof pads, and MLPE mount provide a complete solution UNIRAC's unmatched commercial project support makes construction easy, from permitting through installation, and **RM10** is supported by North America's largest distribution network. Plus, enjoy peace of mind with UNIRAC's industry-leading 25-year warranty.



FEWER PARTS · FASTER INSTALLATION

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

ROOFMOUNT | RM10 = UNIRAC BETTER SOLAR STARTS HERE

SIMPLE DESIGN TWO MAJOR COMPONENTS. ONE TOOL

RM10 supports most framed PV modules at 10 degree tilt. The component list consists of only two major components – a fully assembled ballast bay and a universal module clip. Our engineers specified a chemical locking hex bolt, providing a UL2703 certified grounding path from module to ballast bay, with just the turn of a wrench. RM is designed to conveniently work with off the shelf wire management products. A snap into place, membrane-friendly, rubber roof pad is also available as a low-cost option for roof protection.

AVAILABILITY NATIONWIDE NETWORK

UNIRAC maintains the largest network of stocking distributors for our racking solutions. Our partners have distinguished their level of customer support, availability, and overall value, thereby providing the highest level of service to users of UNIRAC products. Count on our partners for fast and accurate delivery to meet your project needs. Visit unirac.com for a list of distributors.

AUTOMATED DESIGN TOOL DESIGN PLATFORM AT YOUR SERVICE

Creating a bill of materials is just a few clicks away with **U-Builder**, a powerful online tool that streamlines the process of designing a code compliant solar mounting system. Save time by creating a user profile, and recall preferences and projects automatically when you log in. You will enjoy the ability to share projects with customers; there's no need to print results and send to a distributor, just click and share.

BUL2703 BONDING & GROUNDING MECHANICAL LOADING SYSTEM FIRE CLASSIFICATION

UNIRAC CUSTOMER SERVICE MEANS THE HIGHEST LEVEL OF PRODUCT SUPPORT





TECHNICAL SUPPORT

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



CERTIFIED QUALITY PROVIDER

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





OPTIONAL

ROOF PAD



INTEGRATED

BONDING

CLIP



BANKABLE WARRANTY

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

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

U-BUILDER PROJECT REPORT

VERSION: 3.0.9



project ti ROOFN	τle MOUNT RM10	PROJECT ID C3AEC1D8	CREATED Oct. 19, 2020, 4:23 p.m.
NAME ADDRESS	88 Whippoorwill Rd E,	Armonk, NY 10504, USA	Designed by bret@nyssf.com ROOFMOUNT RM10
CITY, STATE		Armonk, NY	Sunpower 47 - E19/320
MODULE		Sunpower E19/320	824.31 ft ²
			15.04 KW

ENGINEERING REPORT

Plan review

AVERAGE PSF	5.49 psf
TOTAL NUMBER OF MODULES	47
TOTAL KW	15.04 KW
TOTAL AREA	~1360 ft ²
TOTAL WEIGHT ON ROOF	7465 lbs
RACKING WEIGHT	298 lbs
MODULE WEIGHT	2016 lbs
BALLAST WEIGHT	4981 lbs
MAX BAY LOAD (DEAD)	148 lbs

Loads Used for Design

BUILDING CODE	ASCE 7-16
BASIC WIND SPEED	115.00 mph
GROUND SNOW LOAD	30.00 psf
SEISMIC (SS)	0.27
ELEVATION	634.00 ft
WIND EXPOSURE	В
MRI	50

Loads Determined by Zip	10504
CITY, STATE	Armonk, NY
BASIC WIND SPEED	106.00 mph
GROUND SNOW LOAD	30.00 psf

Inspection

PRODUCT	ROOFMOUNT RM10
MODULE MANUFACTURER	Sunpower
MODEL	E19/320
MODULE WATTS	320 watts
MODULE LENGTH	61.30"
MODULE WIDTH	41.20"
MODULE THICKNESS	1.80"
MODULE WEIGHT	42.90 lbs
BALLAST BLOCK (CMU) WEIGHT	17.0 lbs
MAX BLOCKS PER BAY	4
BUILDING HEIGHT	15.00 ft
ROOF TYPE	EPDM
PARAPET HEIGHT	<= 1/2 Array Height (<= 6 inches)

Roof Area 1 - Array 1

AVERAGE PSF	5.58 psf
TOTAL NUMBER OF MODULES:	15
TOTAL KW:	4.80 KW
TOTAL AREA:	425 ft ²
TOTAL WEIGHT ON ROOF:	2373 lbs
RACKING WEIGHT:	95 lbs
MODULE WEIGHT:	644 lbs
BALLAST WEIGHT:	1581 lbs

MINIMUM SEISMIC SEPARATION (UNATTACHED ARRAYS) *

ARRAY TO ARRAY:	12.0"
TO FIXED OBJECT ON ROOF:	24.0"
TO ROOF EDGE WITH QUALIFYING PARAPET:	24.0"
TO ROOF EDGE WITHOUT QUALIFYING PARAPET:	48.0"
MAX ARRAY (SEISMIC) (FOR UNATTACHED ARRAYS) *	
MAX NUMBER OF NORTH-SOUTH ROWS:	41
MAX NUMBER OF EAST-WEST COLUMNS:	181

*See ASCE 7-16 Section 13.6.12 for more details

Roof Area 1 - Array 2

AVERAGE PSF	5.51 psf
TOTAL NUMBER OF MODULES:	14
TOTAL KW:	4.48 KW
TOTAL AREA:	408 ft ²
TOTAL WEIGHT ON ROOF:	2246 lbs
RACKING WEIGHT:	84 lbs
MODULE WEIGHT:	601 lbs
BALLAST WEIGHT:	1513 lbs

12.0"
24.0"
24.0"
48.0"
41
181

Roof Area 2 - Array 1

AVERAGE PSF	5.09 psf
TOTAL NUMBER OF MODULES:	11
TOTAL KW:	3.52 KW
TOTAL AREA:	315 ft ²
TOTAL WEIGHT ON ROOF:	1602 lbs
RACKING WEIGHT:	70 lbs
MODULE WEIGHT:	472 lbs
BALLAST WEIGHT:	1020 lbs

ARRAY TO ARRAY:	12.0"
TO FIXED OBJECT ON ROOF:	24.0"
TO ROOF EDGE WITH QUALIFYING PARAPET:	24.0"
TO ROOF EDGE WITHOUT QUALIFYING PARAPET:	48.0"
MAX ARRAY (SEISMIC) (FOR UNATTACHED ARRAYS) *	
MAX NUMBER OF NORTH-SOUTH ROWS:	41
MAX NUMBER OF EAST-WEST COLUMNS:	181

Roof Area 2 - Array 2

AVERAGE PSF	5.86 psf
TOTAL NUMBER OF MODULES:	7
TOTAL KW:	2.24 KW
TOTAL AREA:	212 ft ²
TOTAL WEIGHT ON ROOF:	1244 lbs
RACKING WEIGHT:	49 lbs
MODULE WEIGHT:	300 lbs
BALLAST WEIGHT:	867 lbs

MINIMUM SEISMIC SEPARATION (UNATTACHED ARRAYS) *

ARRAY TO ARRAY:	12.0"
TO FIXED OBJECT ON ROOF:	24.0"
TO ROOF EDGE WITH QUALIFYING PARAPET:	24.0"
TO ROOF EDGE WITHOUT QUALIFYING PARAPET:	48.0"
MAX ARRAY (SEISMIC) (FOR UNATTACHED ARRAYS) *	
MAX NUMBER OF NORTH-SOUTH ROWS:	41
MAX NUMBER OF EAST-WEST COLUMNS:	181

*See ASCE 7-16 Section 13.6.12 for more details

RM10 U-BUILDER PRODUCT ASSUMPTIONS

RM10 – Ballasted Flat Roof Systems

Limitations of Responsibility: It is the user's responsibility to ensure that inputs are correct for your specific project. Unirac is not the solar, electrical, or building engineer of record and is not responsible for the solar, electrical, or building design for this project.

Building Assumptions

- 1. Risk Category II
- 2. Building Height \leq 50 ft
- 3. Building Height > 50 ft: only where (longest length of building x building height)^ $0.5 \le 100$ ft
- 4. Roof Slope $\geq 0^{\circ}$ (0:12) and $\leq 3^{\circ}$ (5/8:12) for Seismic Design Category C, D, E and F. For low seismic regions Seismic Design Category A and B (provided Array Importance factor = 1.0), Roof Slope $\geq 0^{\circ}$ (0:12) and $\leq 7^{\circ}$ (1 1/2:12).
- 5. Roofing Material Types: EDPM, PVC, TPO, or Mineral Cap
- 6. Surrounding Building Grade: Level

Ballast Blocks

The installer is responsible for procuring the ballast blocks (Concrete Masonry Units – CMU) and verifying the required minimum weight needed for this design. CMU should comply with ASM standard specification for concrete roof pavers designation (C1491 or C90 with an integral water repellant suitable for the climate it is placed. It is recommended that the blocks are inspected periodically for any signs of degradation. If degradation of the block is observed, the block should immediately be replaced.

The CMU ballast block should have nominal dimensions of 4"x8"x16". The actual block dimensions are 3/8" less than the nominal dimensions. Ballast blocks should have a weight as specified for the project in the "Inspection" section of this report.

Design Parameters

- 1. Risk Category II
- 2. Wind Design
 - a. Basic Wind Speed: 85-120 mph (ASCE 7-05)/110-150 mph (ASCE 7-10)/90-180 mph (ASCE 7-16)
 - b. Exposure: B, C or D (ASCE 7-05/ASCE 7-10)
 - c. 25 year Design Life/50 year Design Life for ASCE 7-16
 - d. Elevation: Insertion of the project at grade elevation can result in a reduction of wind pressure. If your project is in a special case study region or in an area where wind studies have been performed, please verify with your jurisdiction to ensure that elevation effects have not already been factored into the wind speed. If elevation effects have been included in your wind speed, please select 0 ft as the project site elevation.
 - e. Wind Tunnel Testing: Wind tunnel testing coefficients have been utilized for design of the system.
- 3. Snow Design
 - a. Ground Snow Load: 0-80 psf (ASCE 7-10/ASCE 7-16)
 - b. Exposure Factor: 0.9
 - c. Thermal Factor: 1.2
 - d. Roof Snow Load: Calculation per Section 7.3 (ASCE 7-05/ASCE 7-10/ASCE 7-16)
 - e. Unbalanced/Drifting/Sliding: Results are based on the uniform snow loading and do not consider unbalanced, drifting, and sliding conditions
- 4. Seismic Design
 - a. Report SEAOC PV1-2012/ASCE 7-16 SECTION 13.6.12 Structural Seismic Requirements and Commentary for Rooftop Solar Photovoltaic Arrays
 - b. Seismic Site Class: A, B, C, or D (ASCE 7-05/ASCE 7-10/ASCE 7-16)
 - c. Importance Factor Array (lp): 1.0
 - d. Importance Factor Building (le): 1.0
 - e. Site Class: D

Properties

- 1. Bay Weight: ~3.5 lbs
- 2. Module Gaps (E/W) = 0.25 in
- 3. Bays: North row bays overhang the module by ~19.5 inches.

Module Properties

- 1. Module return flange: Minimum of 0.9in (when using 1-3/4 in. clip bolts) is required.
- 2. Module return flange: Minimum of 0.65in (when using 2 in. clip bolts) is required.

Testing

- 1. Coefficient of Friction
- 2. Wind Tunnel
- 3. UL 2703
- 4. Component Testing (Bay and Clamp)

Setbacks

For the wind tunnel recommendations in U-Builder to apply, the following setbacks should be observed/followed for U-Builder wind design:

- 1. Modules should be placed a minimum of 3 feet from the edge of the building in any direction.
- If the array is located near an obstruction that is 3.5 feet wide and 3.5 feet high or larger, the nearest
 module of the array must be located a distance from the obstruction that is greater than or equal to the height of the obstruction.
 Exception: When using ASCE 7-16 Building Code and using the obstruction feature in the module editor to accurately model the size and
 location of obstruction.
- 3. Installations within the setbacks listed above require site specific engineering 2
- 4. The setbacks above are for wind. High seismic areas, fire access isles, mechanical equipment, etc., may require larger setbacks than listed above for wind.

Site Specific Engineering

Conditions listed below are beyond the current capabilities of U-Builder. Site specific engineering is required.

- 1. Wind designs for a project design life exceeding 25 years ^{1/ASCE 7-16}
- 2. Building assumptions and design parameters outside of U-Builder assumptions²
- 3. Attachments²
- 4. Risk Category III or IV projects (U-Builder can be adjusted for the correct wind, but not the seismic or snow design)²
- 5. Wind tunnel testing reduction factors are not permitted by the Authority Having Jurisdiction (AHJ)³
- 6. Seismic designs that fall outside SEAOC PV1-2012/ASCE 7-16 SECTION 13.6.12 recommendations (>3% roof slope, or AHJ's that require shake table testing or non-linear site-specific response history analysis)³
- 7. Signed and sealed site-specific calculations, layouts, and drawings³

Notes:

¹Please contact info@unirac.com.

² Please contact EngineeringServices@unirac.com for more information.

³Please contact Theresa Allen with PZSE Structural Engineers at theresa@pzse.com. These items

will require direct coordination with PZSE to complete the requested services.



SunPower[®] InvisiMount[™] | Residential Mounting System

Simple and Fast Installation

- Integrated module-to-rail grounding
- · Pre-assembled mid and end clamps
- · Levitating mid clamp for easy placement
- Mid clamp width facilitates consistent, even module spacing
- UL 2703 Listed integrated grounding

Flexible Design

- Addresses nearly all sloped residential roofs
- Design in landscape and portrait with up to 8' rail span
- · Pre-drilled rails and rail splice
- Rails enable easy obstacle management

Customer-Preferred Aesthetics

- #1 module and #1 mounting aesthetics
- Best-in-class system aesthetics
- Premium, low-profile design
- Black anodized components
- Hidden mid clamps and capped, flush end clamps

Part of Superior System

- Built for use with SunPower DC and AC modules
- Best-in-class system reliability and aesthetics
- Optional rooftop transition flashing, railmounted J-box, and wire management rail clips
- Combine with SunPower modules and SunPower EnergyLink[®] monitoring app





Elegant Simplicity

SunPower® InvisiMount™ is a SunPower-designed rail-based mounting system. The InvisiMount system addresses residential sloped roofs and combines faster installation time, design flexibility, and superior aesthetics. The InvisiMount product was specifically envisioned and engineered to pair with SunPower modules. The resulting system-level approach amplifies the aesthetic and installation benefits—for homeowners and for installers.

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SUNPOWER[®]



SunPower[®] InvisiMount[™] | Residential Mounting System



Module¹ / Mid Clamp and Rail



Row-to-Row Spacer

Module¹ / End Clamp and Rail





End Clamp





Row-to-Row Grounding Clip

	InvisiMount Component Details							
Mid clamp	Black oxide stainless steel 300 series	63 g (2.2 oz)						
End clamp	Black anodized aluminum 6000 series	110 g (3.88 oz)						
Rail	Black anodized aluminum 6000 series	830 g/m (9 oz/ft)						
Rail splice	Aluminum alloy 6000 series	830 g/m (9 oz/ft)						
Rail bolt	M10-1.5 × 25 mm; custom T-head SS304	18 g (0.63 oz)						
Rail nut	M10-1.5; DIN 6923 SS304	nominal						
Ground lug assembly	SS304; A2-70 bolt; tin-plated copper lug	106.5 g (3.75 oz)						
Row-to-row grounding clip	SS 301 with SS 304 M6 bolts	75 g (2.6 oz)						
Row-to-row spacer	Black POM-grade plastic	5 g (0.18 oz)						

InvisiMount Component LRFD Capacities ²								
Mid clamp	Uplift	664 lbf						
Mid clamp	Shear	540 lbf						
End clamp	Uplift	899 lbf						
End clamp	Shear	220 lbf						
5.1	Moment: upward	548 lbf-ft						
Rail	Moment: downward	580 lbf-ft						
Dail calica	Moment: upward	548 lbf-ft						
Rail splice	Moment: downward	580 lbf-ft						
L-foot	Uplift	1000 lbf						
L-1001	Shear	390 lbf						

1	
	Rail and Rail Splice

Inv	InvisiMount Operating Conditions							
Temperature	Temperature -40° C to 90° C (-40° F to 194° F)							
Max. Load (LRFD)	 3000 Pa uplift 6000 Pa downforce 							

Roof Attachment Hardware Supported by Design Tool							
Application	 Composition Shingle Rafter Attachment Composition Shingle Roof Decking Attachment Curved and Flat Tile Roof Attachment Universal interface for other roof attachments 						

InvisiM	InvisiMount Warranties And Certifications						
Warranties	• 25-year product warranty						
	• 5-year finish warranty						
Certifications	• UL 2703 Listed						
	Class A Fire Rated						

Refer to roof attachment hardware manufacturer's documentation.

¹ Module frame that is compatible with the InvisiMount system required for hardware interoperability. ² SunPower recommends that all Equinox[™], InvisiMount[™], and AC module systems always be designed using the InvisiMount Span Tables #524734. If a designer decides to instead use the component capacities listed in this document to design a system, note that the capacities shown are Load and Resistance Factor Design (LRFD) design loads, and are NOT to be used for Allowable Stress Design (ASD) calculations; and that a licensed Professional Engineer (PE) must then stamp all calculations. If you have any questions please contact SunPower Technical Support at 1-855-977-7867. sunpower.com

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SUNPOWER[®]

509506 RevF

April 27, 2020



SunPower 77 Rio Robles San Jose, CA 95134 TEL: (408) 514-4063

Attn: Sunpower – Engineering Department

Re: Engineering Certification for the SunPower Corporation Invisimount Mounting System Span Tables and Design Methodology,Document #524734 Rev E.

PZSE, Inc.-Structural Engineers has reviewed the SunPower Invisimount Mounting System Span Tables published April 27, 2020 and their design methodology. This certification covers the module clamp, rail analysis, and attachment Tile hook/L bracket components. All information, data and analysis contained within are based on, and comply with, the following building codes and typical specifications:

Building Codes:

- 1. Minimum Design Loads for Buildings and other Structures, ASCE/SEI 7-10, ASCE/SEI 7-16.
- 2. 2015, 2018 Building Code, by International Code Council, Inc
- 3. 2017 NY State Uniform Code Supplement
- 4. 2020 NY State Building Code
- 5. 2015 Aluminum Design Manual, by The Aluminum Association
- 6. CPP Wind Tunnel report number 9790, dated 16 February 2017.
- 7. SEAOC PV-2, 2017
- 8. 2015 NDS, by the American Wood Council
- 9. UL 2703 Testing report for PV solar panels.
- 10. AC428, Acceptance Criteria for Modular Framing Systems Used to Support Photovoltaic (PV) Panels, November 1, 2012 by ICC-ES

Component and Cladding Roof Zones:

The Components and Cladding Roof Zones shall be determined based on ASCE 7 Chapter 30, and CPP Wind Tunnel test number 9790, dated 16 February 2017.

Notes:

1) Racking system and panels shall be installed per manufacturer's specifications.

2) Design assumptions are specified in the Inputs pages of attached span tables.

3) Attachment design is based on 5/16" Dia. Lag Screw with 2.5" Embedment into SPF#2 or equivalent per NDS. Designer shall be responsible for verifying project specific site conditions.

4) Wind speeds are LRFD values.

5) Attachment spacing(s) apply to seismic design category E or less.

1478 Stone Point Drive, Suite 190, Roseville, CA 95661 T 916.961.3960 F 916.961.3965 W www.pzse.com Experience | Integrity | Empowerment



Design Responsibility:

These tables are intended to be used under the responsible charge of a registered design professional where required by the authority having jurisdiction. In all cases, these tables should be used under the direction of a design professional with sufficient structural engineering knowledge and experience to be able to:

- Evaluate whether these tables are applicable to the project, and
- Understand and determine the appropriate values for all input parameters of these tables.

This letter certifies that the loading criteria and design basis SunPower Invisimount Mounting System Span Tables are in compliance with the Codes above.

This certification excludes the capacity check of the building structure to support the loads imposed on the building by the array, such as bending strength of roof rafters spanning between supports. This requires additional knowledge of the building and is outside the scope of the design tool and our review.

If you have any questions on the above, do not hesitate to call.

Prepared By: PZSE, Inc. - Structural Engineers Roseville, CA



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Exposure Ground Snow (psf) Roof Height (ft) В

30

20

	INVISIMOUNT ALLOWABLE SPANS - ZONE 1 (IN)												
Slope \rightarrow	9.46 °	14.04 °	18.43 °	22.62 °	26.57 °	30.26 °	33.69 °	36.87 °	39.81 °	42.51°	45 °		
Speed \downarrow	2:12	3:12	4:12	5:12	6:12	7:12	8:12	9:12	10:12	11:12	12:12		
90	72	72	72	80	80	80	96	96	96	96	96		
95	72	72	72	80	80	80	96	96	96	96	96		
100	72	72	72	80	80	80	96	96	96	96	96		
105	72	72	72	80	80	80	96	96	96	96	96		
110	72	72	72	80	80	80	96	96	96	96	96		
120	72	72	72	80	80	80	96	96	96	96	96		
130	72	72	72	80	96	80	80	96	96	96	96		

	INVISIMOUNT ALLOWABLE SPANS - ZONE 2 (IN)											
Slope \rightarrow	9.46 °	14.04 °	18.43 °	22.62 °	26.57 °	30.26 °	33.69 °	36.87 °	39.81 °	42.51°	45 °	
Speed \downarrow	2:12	3:12	4:12	5:12	6:12	7:12	8:12	9:12	10:12	11:12	12:12	
90	72	72	72	80	80	80	96	96	96	96	96	
95	72	72	72	80	80	80	96	96	96	96	96	
100	72	72	72	80	80	80	96	96	96	96	96	
105	72	72	72	80	80	80	96	96	96	96	96	
110	72	72	72	80	80	80	96	96	96	96	96	
120	72	72	72	80	80	80	96	96	96	80	80	
130	72	72	72	80	80	80	80	96	80	80	80	

	INVISIMOUNT ALLOWABLE SPANS - ZONE 3 (IN)												
Slope \rightarrow	9.46 °	14.04 °	18.43 °	22.62 °	26.57 °	30.26 °	33.69 °	36.87 °	39.81°	42.51°	45 °		
Speed↓	2:12	3:12	4:12	5:12	6:12	7:12	8:12	9:12	10:12	11:12	12:12		
90	72	72	72	80	80	80	96	96	96	96	96		
95	72	72	72	80	80	80	96	96	96	96	96		
100	72	72	72	80	80	80	96	96	96	96	80		
105	72	72	72	80	80	80	96	96	96	80	80		
110	72	72	72	80	80	80	96	96	80	80	80		
120	72	72	72	80	80	80	96	80	80	72	72		
130	72	72	72	80	80	80	80	80	72	72	64		

Notes:

- Tables are based on strength of the InvisiMount rail and approved roof attachment in the Engineering Summary Letter of this document, in conformance with IBC and referenced standards.
- The color of a given cell indicates the area on the module where clamps may be installed. Green cells allow clamps to be installed in Portrait or Landscape orientations; Orange allows clamps to be installed only in Portrait; Blue allows clamps to be installed only in Portrait within the given dimensions from the edge. Refer to the key at the beginning of this document for more details.
- Maximum allowable cantilever is equal to 1/3 of the allowable span.
- Wind speeds are ultimate values in mph, as defined in ASCE 7. Wind pressure coefficients are derived from ASCE 7 Chapter 30.
- User is responsible for verifying the strength of the roof.

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Exposure Ground Snow (psf) Roof Height (ft) В

30

30

	INVISIMOUNT ALLOWABLE SPANS - ZONE 1 (IN)										
Slope \rightarrow	9.46 °	14.04 °	18.43 °	22.62 °	26.57 °	30.26 °	33.69 °	36.87 °	39.81 °	42.51°	45 °
Speed \downarrow	2:12	3:12	4:12	5:12	6:12	7:12	8:12	9:12	10:12	11:12	12:12
90	72	72	72	80	80	80	96	96	96	96	96
95	72	72	72	80	80	80	96	96	96	96	96
100	72	72	72	80	80	80	96	96	96	96	96
105	72	72	72	80	80	80	96	96	96	96	96
110	72	72	72	80	80	80	96	96	96	96	96
120	72	72	72	80	96	80	96	96	96	96	96
130	72	72	72	80	80	80	80	96	96	96	96

	INVISIMOUNT ALLOWABLE SPANS - ZONE 2 (IN)										
Slope \rightarrow	9.46 °	14.04 °	18.43 °	22.62 °	26.57 °	30.26 °	33.69 °	36.87 °	39.81 °	42.51°	45 °
Speed \downarrow	2:12	3:12	4:12	5:12	6:12	7:12	8:12	9:12	10:12	11:12	12:12
90	72	72	72	80	80	80	96	96	96	96	96
95	72	72	72	80	80	80	96	96	96	96	96
100	72	72	72	80	80	80	96	96	96	96	96
105	72	72	72	80	80	80	96	96	96	96	96
110	72	72	72	80	80	80	96	96	96	96	80
120	72	72	72	80	80	80	96	96	80	80	80
130	72	72	72	80	80	80	80	80	80	80	72

	INVISIMOUNT ALLOWABLE SPANS - ZONE 3 (IN)										
Slope \rightarrow	9.46 °	14.04 °	18.43 °	22.62 °	26.57 °	30.26 °	33.69 °	36.87 °	39.81 °	42.51°	45 °
Speed↓	2:12	3:12	4:12	5:12	6:12	7:12	8:12	9:12	10:12	11:12	12:12
90	72	72	72	80	80	80	96	96	96	96	96
95	72	72	72	80	80	80	96	96	96	96	80
100	72	72	72	80	80	80	96	96	96	80	80
105	72	72	72	80	80	80	96	96	80	80	80
110	72	72	72	80	80	80	96	80	80	80	72
120	72	72	72	80	80	80	80	80	72	72	64
130	64	64	64	72	72	80	80	72	64	64	64

Notes:

- Tables are based on strength of the InvisiMount rail and approved roof attachment in the Engineering Summary Letter of this document, in conformance with IBC and referenced standards.
- The color of a given cell indicates the area on the module where clamps may be installed. Green cells allow clamps to be installed in Portrait or Landscape orientations; Orange allows clamps to be installed only in Portrait; Blue allows clamps to be installed only in Portrait within the given dimensions from the edge. Refer to the key at the beginning of this document for more details.
- Maximum allowable cantilever is equal to 1/3 of the allowable span.
- Wind speeds are ultimate values in mph, as defined in ASCE 7. Wind pressure coefficients are derived from ASCE 7 Chapter 30.
- User is responsible for verifying the strength of the roof.



Originally Issued: 09/26/2012

Revised: 09/25/2019

Valid Through: 09/30/2020

SUNMODO CORPORATION 14800 NE 65th Street Vancouver, WA 98682

SUNMODO EZ ROOF MOUNT L-FOOT KITS FOR SHINGLE ROOFS

CSI Section:

06 25 23 Wood, Plastic, and Composite Fastenings 07 71 00-Roof Specialties

1.0 RECOGNITION

SunModo EZ Roof Mount L-Foot Kits for Shingle Roofs recognized in this report has been evaluated for use as mounting assemblies to attach solar panels and other types of approved equipment on roofs with asphalt shingle roof coverings. The structural performance and weather protection properties of the SunModo EZ Roof Mount L-Foot Kits for Shingle Roofs have been evaluated and comply with the intent of the provisions of the following codes and regulations:

- 2015, 2012, 2009 and 2006 International Building Code[®] (IBC)
- 2015, 2012, 2009 and 2006 International Residential Code[®] (IRC)

2.0 LIMITATIONS

Use of the EZ Roof Mount Kits-K10068-XXX recognized in this report is subject to the following limitations:

2.1 EZ Roof Mount Kits - K10068- XXX shall be installed in accordance with this report, the manufacturer's published installation instructions and the codes listed in Section 1.0 of this report. Where conflicts occur, the more restrictive shall govern.

2.2 Calculations to verify the imposed loads on the EZ Roof Mount assemblies do not exceed the allowable loads contained in <u>Table 1</u> of this report and shall be submitted to the code official when requested. The calculations shall be prepared by a registered design professional when required by the statues of the jurisdiction in which the project is to be constructed.

2.3 Fasteners used in contact with fire-retardant-treated or preservative-treated lumber shall comply with 2015 IBC Section 2304.10.5 (2012, 2009 and 2006 IBC Section 2304.9.5 or the 2015, 2012 and 2009 IRC Section R317.3 (2006 IRC Section R319.3), as applicable. The report holder or lumber treater shall be contacted for recommendations on minimum corrosion resistance and

connection capacities of fasteners used with the specific proprietary preservative-treated or fire-retardant treated lumber

3.0 PRODUCT USE

3.1 General: EZ Roof Mount Kits – K10068-XXX are mounting assemblies used to attach solar panels and other types of approved equipment on roofs with asphalt shingle roof coverings.

EZ Roof Mounts are specifically designed to be used for installation of solar collectors for thermal energy or photovoltaic energy production in accordance with IBC Section 1511 and IRC Sections M2301 on roofs.

3.2 Design: Tabulated allowable loads shown in Table 1 of this report are based on allowable stress design (ASD) and include the load duration factor, C_D, corresponding with the applicable loads in accordance with the ANSI/AWC National Design Specification (NDS).

Where the roof mounts are exposed to sustained temperatures exceeding 100°F (37.8°C), uplift allowable loads shall be adjusted by the temperature factor, C_t , in accordance with Section 10.3.4 or the NDS temperature factor, C_t , which applies to the roof mount connected to supporting wood members where sustained temperatures up to 150°F (65.6°C). When products are attached to wood framing having a moisture content greater than 19 percent (16 percent for engineered wood products), or where wet service is expected, the allowable loads shall be adjusted by the wet service factor, C_M , specified in Section 10.3.3 of the NDS. Connected wood members shall be analyzed for load-carrying capacity at the connection in accordance with the NDS.

3.3 Installation: EZ Roof Mount Kit – K10068-001 shall be installed using the 5/16-inch (7.94 mm) diameter stainless steel lag screws at each bracket location as described in the manufacturer's published installation instructions. Lag screws shall penetrate into the roof rafter a minimum of 2½-inches (63.5 mm). Prior to installation, the roof rafter shall be bored with the required lead and clearance holes for the unthreaded and shank portions of the lag screw as set forth in Section 12.1.4 of the NDS-15 (Section 11.1.4 of the NDS-12 and -05). Threaded portion of the lag screw shall be inserted into its lead hole by turning with a wrench and not driving by a hammer.

Use of auxiliary holes in the Shoe other than the use of an extra fastener to stop the shoe from rotating during installation is outside the scope of this report.

Flashing shall be installed the full length under the shingle up to the raised portion of the flashing to prevent water



The product described in this Uniform Evaluation Service (UES) Report has been evaluated as an alternative material, design or method of construction in order to satisfy and comply with the intent of the provision of the code, as noted in this report, and for at least equivalence to that prescribed in the code in quality, strength, effectiveness, fire resistance, durability and safely, as applicable, in accordance with IBC Section 104.11. This document shall only be reproduced in its entirety.

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Originally Issued: 09/26/2012 Revised: 09/25/2019

Valid Through: 09/30/2020

ingress under the shingle. No portion of the flashing shall be bent upward; the flashing shall rest fully against the roof shingles.

EZ Roof Mount Kit - K10068- 020 shall be installed using four OMG Screws XHD002B complying with Section 4.2 of this report. The wood screws shall penetrate and extend beyond the wood sheathing by $\frac{1}{2}$ inch (12.7 mm) as described in the manufacturer's published installation instructions.

4.0 PRODUCT DESCRIPTION

4.1 Product Information

4.1.1 EZ Roof Mount Kit – **K10068-001:** consists of five basic components: (1) shoe assembly with captive waterproof washer, (2) lag bolt to fasten through the shingles to the wood roof rafter, (3) flashing that is placed under the row of shingles above the shoe and then over the shoe, (4) L-Foot that is placed over the protruding shoe threads and (5) hex cap that is secured on to the shoe. Figures 2 to <u>6</u> of this report illustrate the components.

4.1.2 EZ Roof Mount Kit – **K10068-020:** consists of five basic components: (1) shoe assembly with captive waterproof washer, (2) OMG Screws XHD002B (lag bolt not included), (3) flashing, (4) L-Foot, and (5) hex cap. Figures 2 through 7 of this report illustrate the components.

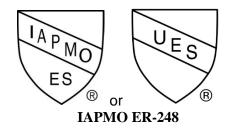
4.2 Material information: EZ Roof Mount is fabricated from aluminum. The Shoe assembly is fabricated using casting aluminum alloy with dimensions of 2.80 inches (71 mm) in diameter and 1.00 inches (25.4 mm) in height. The Shoe assembly is secured using one 5/16-inch (7.94 mm) diameter lag bolt that is 4 inches (102 mm) in length and made of stainless steel. Flashing is fabricated from sheet aluminum with dimensions of 10.0 inches (254 mm) in width, 12.5 inches (318 mm) in length and 0.04 inches (1.02 mm) in thickness.

The L-foot is a 2.00 inch (50.8 mm) long unequal leg angle made from 6005-T5 aluminum with dimensions of 3.00 inches (76.2 mm) in depth, 2.00 inches (50.8 mm) in width and 0.24 inches (6.10 mm) in thickness. The L-foot contains a 0.375-inch (9.53 mm) diameter round hole with a 0.83 inch (21.1 mm) wide and 0.99 inch (25.15 mm) (in base) that is located in the center of the base leg. One slot measuring 1.64 inches (41.7 mm) long by 0.40 inch (10.2 mm) wide occurs in the center and is located 0.30 inches (7.62 mm) from the top edge of the vertical leg, which has a scallop front and rear face. Table 2 of this report provides component material properties and figures.

Fasteners used to secure the EZ Roof Mount Kit – K10068-020 to minimum ¹/₂-inch (12.7 mm) thick plywood roof sheathing complying with DOC PS1 shall be OMG Screws XHD002B 0.202-inch (5.13 mm) diameter wood screws complying with ASTM D1761 and F1575. The wood screws shall be long enough to penetrate and extend beyond the wood sheathing by 0.5 inch (12.7 mm). Wood screws shall be corrosion-resistant. Table 1 of this report provides pull-out capacities and allowable lateral loads for typical roof sheathing.

5.0 IDENTIFICATION

SunModo's EZ Roof Mount Kits - K10068-XXX are identified with a label bearing the manufacturer's name and address, product designation, IAPMO Uniform ES Marks of Conformity, compliance code, the name of the inspection agency (when applicable) and this evaluation report number (ER-248).



6.0 SUBSTANTIATING DATA

Testing and analysis data submitted is in conformance with IAPMO UES Evaluation Criteria for Joist Hangers and Miscellaneous Connectors (EC 002-2017).

Rain test data and thickness of aluminum flashing submitted is in conformance with ICC-ES AC 286, Roof Flashing for Pipe Penetrations—Approved October 2012, editorially revised August 2013. Rain test conforms to Underwriters Laboratory Standard for Gas Vents, (UL 441-96 Section 25). Test results are from laboratories in compliance with ISO/IEC 17025.

Originally Issued: 09/26/2012 Revised: 09/25/2019

Valid Through: 09/30/2020

7.0 STATEMENT OF RECOGNITION

®

This evaluation report describes the results of research carried out by IAPMO Uniform Evaluation Service on SunModo EZ Roof Mount L-Foot Kits for Shingle Roofs to assess conformance to the codes shown in Section 1.0 of this report and serves as documentation of the product certification.

Brian Derben

Brian Gerber, P.E., S.E. Vice President, Technical Operations Uniform Evaluation Service

Kuchand Bean

Richard Beck, PE, CBO, MCP Vice President, Uniform Evaluation Service

GP Russ Chaney CEO, The IAPMO Group

For additional information about this evaluation report please visit www.uniform-es.org or email us at info@uniform-es.org



Originally Issued: 09/26/2012 Revised: 09/25/2019

Valid Through: 09/30/2020

Table 1: Allowable Loads (lbs) Particular						
EZ Roof Mount Kit – K10068-001						
Load Direction (Figure 1)	Test Load at 0.250- inch deflection	Test Load at 0.125 inch deflection	Allowable Design Load ^{1, 2}			
Uplift (Withdrawal) ³	1,800	695	715			
Lateral	240	130	260			
EZ Roof Mount Kit – K10068-020 ⁴						
Load Direction (Figure 1)	Test Load at 0.250- inch deflection	Test Load at 0.125-inch deflection	Allowable Design Load ^{1, 2}			
Uplift -2 in. screw	770	396	200			
Lateral -2 in. screw	232	114	85			
Uplift - 3 in. screw	777	390	177			
Lateral - 3 in. screw	264	157	102			

For SI: 1 inch =25.4 mmm

Footnotes

- ^{1.} Allowable load values are based on the least value from ultimate load tests divided by the safety factor, calculated fastener capacity (withdrawal or lateral) for wood, or allowable stress of the connector load (specified in Section 5.4 of EC002-2016), whichever is the lowest.
- ^{2.} Allowable load values are based on lumber with a specific gravity of 0.55 (Southern Pine or equal).
- Allowable load values for withdrawal are based on a minimum fastener penetration of 2½ inches into the roof rafter.
- ^{4.} Allowable load values are based on 4 fasteners penetrating through minimum ¹/₂-inch thick wood sheathing.



Figure 1, Loading Directions

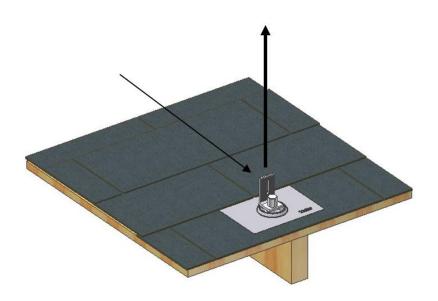


TABLE 2: MATERIAL PROPERITES						
Component	Material					
EZ Roof Mount Kit –K10068-XXX						
Shoe	Aluminum alloy ANSI/AA A380.0					
Waterproof Washer	EPDM with durometer rating of 60					
Lag Bolt	304 stainless steel ASTM A 240					
OMG Screw XHD002B (#15x2 or	Corrosion resistant wood screws					
#15x3)						
L-foot	Aluminum alloy 6005-T5 ASTM B221					
Hex Cap	Aluminum alloy ANSI/AA A380.0					
Flashing	Aluminum alloy 1060 ASTM B209					



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EZ ROOF MOUNT COMPONENTS



Figure 2: Shoe Assembly



Figure 3: Lag Bolt



Figure 4: L-foot



Figure 5: Hex Cap



Figure 6: Flashing



Figure 7: OMG Screws



Town of North Castle Department of Building & Engineering 15 Bedford Road Armonk, NY 10504

Dear Sir or Madam:

Enclosed please find application documents for the following Solar PV Roof-Mounted System Installation for **SBL**: **107.02-2-38**, **Univer**, **88** Whippoorwill Rd. E, Armonk, NY 10504 (*in order of documents submitted*):

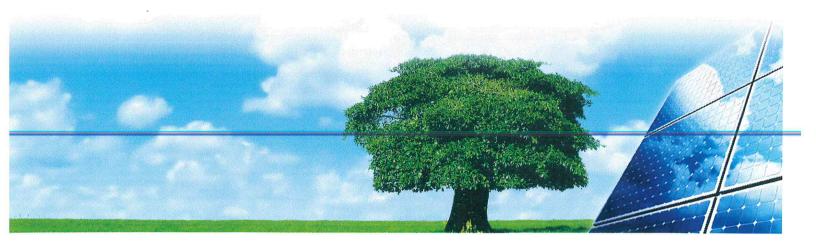
- Application for Building Permit w/ \$222.00 Check for BP App Fees
- RPRC Completeness Review
- Gross Land Coverage Calculations Worksheet Marked as Not Applicable to Project
- Floor Area Calculations Worksheet Marked as Not Applicable to Project
- Tree Removal Permit Application Marked as Not Applicable to Project
- Administrative Wetland Permit Application Not applicable to Project
- Property Homeowner Consent Form signed
- SWIS Electrical Job Application w/ Check for \$50.00
- Westchester County Home Improvement License # WC-25236-H12
- Westchester County Master Electrician License # 800
- Insurance Certificates
- Three (3) Aerial Photos of residence
- Tax Parcel addresses of residence/adjacent properties
- Three (3) Plan Sets with Specifications
- UPS Pre-paid Self-addressed Return envelope

If there is any additional documentation needed, please do not hesitate to email or call our office at 845.256.6051 and we will gladly forward it.

Thanking you in advance for all your help!

Sincerely,

Anthony S. Sicari, Jr. NYS Solar Farm, Inc. 1935 Route 44/55 Modena, NY 12548 kathy@nyssf.com 845.256.6051





Town of North Castle Building Department

17 Bedford Road Armonk, New York 10504-1898 Telephone: (914) 273-3000 ext. 44 Fax: (914) 273-3554 www.northcastleny.com

Residential Building Permit Application

NOTE: TWO (2) SETS OF ALL REQUIRED DOCUMENTS MUST BE SUBMITTED WITH THIS APPLICATION

Section I- PROJECT ADDRESS: 88 Whippoorwill Rd. E, Armonk, NY 10504 DATE: 11/05/20

Section II- CONTACT INFORMATION: (Please print clearly. All information must be current.)

APPLICANT: NYS Solar Farm, Inc.

ADDRESS: 1548 Rte 44-55, Modena, NY 12548

PHONE: 845-256-6051 _____845-706-8168 _____kathy@nyssf.com

PROPERTY OWNER: Scott Univer

ADDRESS: 88 Whippoorwill Road East, Armonk, NY 10504

PHONE: 914-417-7828 _____914-417-7828 _____suniver6@gmail.com

Section III- DESCRIPTION OF WORK: (Any work conducted outside of the house requires approval from the RPRC unless the proposed action is minor in nature and complies with 355-26 C (3) of the Town of North Castle code.)

PV Solar Install - Roof Mount

Section IV- USE AND OCCUPANCY:

EXISTING/ CURRENT USE: Single Family Residence

PROPOSED RESIDENTIAL:			
One Family Dwelling	Two Family Dwelling	Townhouse	Detached Accessory Structure
Section V- PERMIT F	EES: (\$100 app fee plus \$14 p	er \$1000, cost of const	ruction and a \$75 CO fee.)
ESTIMATED COST OF	CONSTRUCTION (Based of	n fair market value lat	oor & material) \$_43,300
			the Design Professional if the estimated cost

Town of North Castle Building Department

Section V- (Continued)

James A. Koppenhaver, PE	and certify as follows: (i) I am the architect engineer
(circle one) licensed by the State of New York; (ii) I have revie cation and am fully familiar with the proposed construction; (construction including all labor, all materials, all professional \$43,313, and (iv) pursuant to Penal Law 210.4	ewed the plans, drawings and specifications for this appli- iii) based on my experience, I estimate the total cost of
a Class A misdemeanor.	
Signature:I	Date: 11/05/20
	Sign and Afrix Seal Prove
Section VI- CONTACT INFORMATION: (Please print cle	arly. All information must be current) 5
ARCHITECT/ ENG: J. Koppenhaver, PE	
ADDRESS: 304 Logan Avenue, Wyomissing, PA	19610 Portocol 19610
PHONE: 484-794-9949 MOBILE:	Contraction of the second seco
_{EMAIL:} koppenhaverpe@gmail.com	
CONTRACTOR: NYS Solar Farm, Inc.	
ADDRESS: 1948 Route 44-55, Modena, NY 1254	8
рноле: 845-256-6051 845-706-8168	EMAIL: kathy@nyssf.com
PLUMBER: n/a	
ADDRESS:	
PHONE:MOBILE:	EMAIL:
ELECTRICIAN: Vincent Ricotta, NYSSF, Inc.	
ADDRESS: 1948 Route 44-55, Modena, NY 1254	8
	EMAIL: Vincent@nyssf.com

Section VII- APPLICANT CERTIFICATION

I hereby certify that I have read the instructions & examined this application and know the same to be true & correct. All provisions of laws & ordinances covering this type of work will be complied with whether specified herein or not. The granting of a permit does not presume to give authority to violate or cancel the provisions of any other state or local law regulating construction or land use or the performance of construction.

Signature: Mut y been	_{Date:} 11/06/20

Town of North Castle Building Department

Section VIII- AFFIDAVIT OF OWNER AUTHORIZATION IF AP	PPLICABLE: (To be notarized)
STATE OF NEW YORK }	
COUNTY OF WESTCHESTER } SS:	
The applicant Anthony S. Sicari, Jr. / NYSSF, Inc. has proper consent	from said owner to make this application as
submitted and said owner agrees to all terms and conditions placed upon Owner's Name (PRINT) Scott Univer Owner's Sig	gnature Auto U. Chins
Sworn to before me this day of, 20_76_	
Sworn to before me this 6 th day of <u>NOU</u> , 20 <u>36</u> Notary Signature Fine and Careh	BIANCA V. CAUCHI Notary Public, State of New York No. 01CA6233239 Qualified in Ulator County Term, Expires December 27, Notary Stamp Here
OFFICE USE ONLY – DO NOT WRITE B	BELOW THIS LINE
Zone: Section: Block:	Lot:
Building Department Checklist:	
Does this permit require RPRC approval?	
GC License Work. Comp. Liability. Ins. D	Disability Two sets of documents
Permit Fee Payment: Check #:	Cash Credit Card
Name on check:	
Received By: Applicat	tion No.:
BUILDING INSPECTOR APP	ROVAL
Has all the conditions of the RPRC been met? Yes NA	
Is a Flood Development permit required? Yes No	
Reviewed By: Date:	
Building Inspector Approval:	Date:
Conditions:	

NEW YORK STATE SOLAR FARM INC	TOMPKINS Mahopac Bank	2891
ACCOUNT D 871 ROUTE 208 GARDINER, NY 12525	50-1139/219	11/3/2020
AY TO THE TOWN OF NORTHCASTLE		\$ **7 5 .00
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ACCOUNT D 871 ROUTE 208 GARDINER, NY 12525 AY TO THE TOWN OF NORTHCASTLE RDER OF Seven Hundred Two and 00/100*********************************	50-1139/219	<u>((</u> <u>11/3/2020</u> \$ **702.00

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Town of North Castle Residential Project Review Committee 17 Bedford Road Armonk, New York 10504 (914) 273-3542 (914) 273-3554 (fax)

RPRC COMPLETENESS REVIEW FORM

This form represents the standard requirements for a completeness review for all Residential Project Review Committee submissions. Failure to provide all of the information requested will result in a determination that the application is incomplete.

Proje	ct Name on Plan: Scott Univer
	ial Submittal Revised Preliminary
Stree	t Location: 88 Whippoorwill Rd. E, Armonk, NY 10504
Zonin	g District: Property Acreage: 2.201 Tax Map Parcel ID: 107.02-2-38 11/05/20
DEPA	ARTMENTAL USE ONLY
Date	Filed: Staff Name:
Items	ninary Plan Completeness Review Checklist marked with a are complete, items left blank ⁽ are incomplete and must be leted, "NA" means not applicable.
1 .	Plan prepared by a registered architect or professional engineer
2.	Aerial photo (Google Earth) showing the applicant's entire property and adjacent properties and streets
β.	Map showing the applicant's entire property and adjacent properties and streets
1 .	A locator map at a convenient scale
 5.	The proposed location, use and design of all buildings and structures
β .	Existing topography and proposed grade elevations
7.	Location of drives
 ₿.	Location of all existing and proposed site improvements, including drains, culverts, retaining walls and fences

RPRC COMPLETENESS REVIEW FORM Page $2 \end{tabular}$

þ .	Description of method of water supply and sewage disposal and location of such facilities
<u>1</u> 10.	The name and address of the applicant, property owner(s) if other than the applicant and of the planner, engineer, architect, surveyor and/or other professionals engaged to work
1 .	Submission of a Zoning Conformance Table depicting the plan's compliance with the minimum requirements of the Zoning District
[]2.	If a tree removal permit is being sought, submission of a plan depicting the location and graphical removal status of all Town-regulated trees within the proposed area of disturbance. In addition, the tree plan shall be accompanied by a tree inventory includes a unique ID number, the species, size, health condition and removal status of each tree.
3.	If a wetlands permit is being sought, identification of the wetland and the 100-foot wetland buffer.

More information about the items required herein can be obtained from the North Castle Planning Department. A copy of the Town Code can be obtained from Town Clerk or on the North Castle homepage: <u>http://www.northcastleny.com/townhall.html</u>

On this date, all items necessary for a technical review of the proposed site plan have been submitted and constitute a COMPLETE APPLICATION.



TOWN OF NORTH CASTLE

WESTCHESTER COUNTY 17 Bedford Road Armonk, New York 10504-1898

PLANNING DEPARTMENT Adam R. Kaufman, AICP Director of Planning

Telephone: (914) 273-3542 Fax: (914) 273-3554 www.northcastleny.com

GROSS LAND COVERAGE CALCULATIONS WORKSHEET

Applica	tion Name or Identifying Title:	Scott Univer	Date: 11/05/20	
Tax Maj	p Designation or Proposed Lot No.: $_1$	07.02-2-38	anna ann an Anna an A	
Gross L	ot Coverage - PV Solar Panel Ins	tallation - Roof Mounted System		
1.	Total lot Area (Net Lot Area for Lots C	Created After 12/13/06):	a - 100 Antonio di Antonio di A	
2.	Maximum permitted gross land covera	age (per Section 213-22.2C):	จะและเข้าเป็นเป็นการแรกเลือกเป็นเกิดเป็นเกิดเป็นเป็นเป็นเป็น เป็นและเข้าเป็นเป็นเป็นเป็นเป็นเป็นเป็นเป็นเป็นเป็น	
3.	BONUS maximum gross land cover (p	er Section 213-22.2C):		
	Distance principal home is beyond mir x 10 =	imum front yard setback	\bigcirc	
4.	TOTAL Maximum Permitted gross	and coverage = Sum of lines 2 and 3	(MAR	
5.	Amount of lot area covered by princip	al building: oposed =	(b)	
6.	Amount of lot area covered by accesso existing +pr			
7.	Amount of lot area covered by decks: existing +pr	oposed =		
8.	Amount of lot area covered by porches			
9.	Amount of lot area covered by drivewa existing + pr	ay, parking areas and walkways: oposed =		
10.	Amount of lot area covered by terrace existing +pr			
11.	Amount of lot area covered by tennis of existing + pr	ourt, pool and mechanical equip: oposed ==	Anno antidesi persinya atalah 10 vici tenangan	
12.	Amount of lot area covered by all othe existing +pr	r structures: oposed =	and Additional and Additional Additional Additional Additional Additional Additional Additional Additional Addi	
13.	Proposed gross land coverage: Total	of Lines 5 – 12 =	Na ya kata da Mandala kata kata da Mandala kata kata ya ma	

If Line 13 is less than or equal to Line 4, your proposal **complies** with the Town's maximum gross land coverage regulations and the project may proceed to the Residential Project Review Committee for review. If Line 13 is greater than Line 4 your proposal does not comply with the Town's regulations.

Signature and Seal of Professional Preparing Worksheet

Date



TOWN OF NORTH CASTLE

WESTCHESTER COUNTY 17 Bedford Road Armonk, New York 10504-1898

PLANNING DEPARTMENT Adam R. Kaufman, AICP Director of Planning

Telephone: (914) 273-3542 Fax: (914) 273-3554 www.northcastleny.com

FLOOR AREA CALCULATIONS WORKSHEET

Applica	ntion Name or Identifying Title:	Scott Univer	Date: 11/05/20	
Tax Ma	p Designation or Proposed Lot No.:	107.02-2-38		
Floor A				
1.	Total Lot Area (Net Lot Area for Lo	ots Created After 12/13/06):		
2.	Maximum permitted floor area (per	r Section 213-22.2B):	Manada an	
3.	Amount of floor area contained with existing +			
4.	Amount of floor area contained with existing +		() IN	
5.	Amount of floor area contained with existing +		CPI	
6.	Amount of floor area contained with existing +	nin porches capable of being enclosed: proposed =		
7.	Amount of floor area contained with existing +	nin basement (if applicable – see definition): proposed =		
8,	Amount of floor area contained with existing +	nin attic (if applicable – see definition): proposed =		
9.	Amount of floor area contained with existing +			
10.	Proposed floor area: Total of Lines	3-9=	Mantana para ang Manganana ang Manganana ang P	

If Line 10 is less than or equal to Line 2, your proposal **complies** with the Town's maximum floor area regulations and the project may proceed to the Residential Project Review Committee for review. If Line 10 is greater than Line 2 your proposal does not comply with the Town's regulations.

Signature and Seal of Professional Preparing Worksheet

Date



PLANNING BOARD BUILDING DEPARTMENT

TOWN OF NORTH CASTLE

WESTCHESTER COUNTY 17 Bedford Road Armonk, New York 10504-1898

Tree Removal Permit Application

Telephone: (914) 273-3542 — Planning (914) 273-8625 — Building Fax: (914) 273-3554 www.northcastleny.com

Tracking# Date://	For Office Use Only	Permit # Fee: \$ Date Issued:/	
l. <u>IDENTIFICATION OF APPLICANT</u> Owner: Scott Univer	I	Date .11/05/20	N O-
Phone: 914-417-7828	Email:	Suniver6@gmail.com	
Address: 88 Whippoorwill Rd. E		nya maadamaa ya ka	
Armonk, NY 10504		nan an	
	e Com Inc		
Applicant (if other than owner): <u>NYS Sola</u> Phone: 845-256-6051		Cathy@nyssf.com	
Address: 1938 Route 44-55	Email: N	aury@rryssi.com	
Modena, NY 12548		en andersekannan an an dersekan van dersekannen fandersekan dersekan dersekan en andersekan var andersekan en a	
Company Removing Trees. No Trees being	removed -	PV Solar Panel Install - Roof Mo	punted System
Company Removing Trees. No Trees being			punted System
Phone:	Email:		punted System
Phone:Address:	Email:		punted System
Phone:Address:	Email:		punted System
Phone:Address:	Email:		ounted System
Phone:Address:	Email:		ounted System
Phone:Address:Address:	Email:		ounted System
Phone:Address:	Email:		ounted System

2. <u>IDENTIFICATION OF SUBJECT PROPERTY</u>

Address: 88 Whippoorwill Rd. E, Armonk, NY 10504

Abutting Street(s): Whippoorwill Road

Tax Map Designation - Section/Block/Lot: 107.02-2-38

- 3. TYPE OF PROPOSED ACTIVITY No Tree Removal PV Solar Panel Install Roof Mounted System
- Removal of a tree within a property's regulated setback zone or landscape buffer zone Removal of a Significant Tree
- Removal of any tree in wetlands, within clearing lines, or Conservation Easements Clearing/Thinning
- Removal of a Significant Tree Removal of any street tree within the Right of Way
- Removal in any calendar year of more than ten (10) trees on any lot
- Removal of a dangerous/hazardous tree

4. <u>SITE PLAN OR MAP SKETCH</u>

Please provide a copy of a site plan, if available, or a detailed map sketch with subject tree(s) to be removed clearly identified. Existing trees within the area of disturbance should be graphically depicted as being removed or remaining. Trees to be preserved should be graphically depicted as receiving tree protection measures. Each tree within the area of disturbance should be identified with a unique ID number on the site plan. In addition to the graphical depiction of each tree, a Tree Inventory should be submitted. The Tree Inventory should include the Unique ID Number, Species, Size (DBH), Health Condition, and removal status of all trees within the disturbance area.

Note: Copies of tax maps of the property are available in the Assessor's Office.

5. <u>TREE REMOVAL DESCRIPTION</u> (INCLUDE HOW MANY TREES WILL BE REMOVED)

No trees being removed. This is a PV Solar Panel Install - Roof Mounted System

6. INSURANCE & HOME IMPROVEMENT LICENSE

Worker's Comp_01/01/21(Exp. Date)	Liability 11/05/21(Exp. Date)	Waiver (Exp.
Date)	12 1 1 10 11 1	

(Please have the Town of North Castle listed as the certificate holder)

/ A Westchester	County Home Improvement License must be submitted with
this application	for it to be deemed complete.

7. <u>FUTURE PLANS</u>

V

Do you have any intention of doing any site work other than tree removal?

Yes ON PV Solar Panel Install - Roof Mounted System

Application No: ______ Fee: _____ Date: _____

ADMINISTRATIVE WETLAND PERMIT APPLICATION

TOWN OF NORTH CASTLE

17 Bedford Road Armonk, New York 10504

Duringt Information
Project Information
Project Address:88 Whippoorwill Rd. E, Armonk, NY 10504
Sheet: Block: Lot(s): Zoning District: Lot Area:
Project Description (identify the improvements proposed within the wetland/wetland buffer): PV Solar Panel Installation - Roof Mounted System
Owner Agent Information
Owner/Agent Name: NYS Solar Farm, Inc. Phone: 845-256-6051
Ówner/Agent Address 1938 Route 44-55 Modena, NY 12548 Email: kathy@nyssf.com
To Be Completed By Owner/Applicant
1. Date of RPRC Review: to be determined by Town
2. Is the project located within the NYCDEP Watershed?
3. Total area of proposed disturbance: $\Box < 5,000 \text{ s.f.} = 5,000 \text{ s.f.} - < 1 \text{ acre} \Box \ge 1 \text{ acre} - \text{Roof Mounted}$
4. Total area of wetland: and/or wetland buffer disturbance: PV Solar Panel Install
5. Total area of mitigation:
□ Plantings □ Invasive species removal/monitoring □ No-mow zone
□ Prohibition of pesticides/herbicides □ Other
6. Does the proposed action require any other permits/approvals from other agencies/Departments? (no)
Department Planning Board Down Board Down Board of Appeals Building Department
🗆 Town Highway 🗆 Tree Removal 🗆 Sediment & Erosion Control 🗆 Floodplain Activity
□ NYSDEC SWPPP/NOI, □ NYSDEC Wetland □ NYCDEP □ WCDOH □ NYSDOT
7. Requested waivers:

Note: Initially, all applications shall be submitted with three sets of plans that illustrate the existing conditions (2' contours, well, SSDS, structures, etc.) and proposed improvements. Said plan must include a line which encircles the total area of proposed land disturbance and the approximate area of disturbance must be calculated (square feet). Mitigation for proposed impacts within the regulated area must be provided. The Town Wetland Consultant may require additional materials, information, reports and plans, as determined necessary, to review and evaluate the proposed action. Application materials outlined under §209-6 of the Town Code must be submitted, unless waived. Pursuant to §209-6D, the applicant shall be responsible for the reimbursement of consultant services related to the

TOWN OF NORTH CASTLE ENVIRONMENTAL QUESTIONNAIRE

The purpose of this Questionnaire is to determine whether a Town Wetland Permit/Coverage under the NYSDEC SPDES General Permit for Stormwater Discharges is required. This form does not provide authorization to commence work.

Project Information

Project Address:	88 Whippoorwill Rd. E, Armonk, NY 10504
Sheet: 107.02	Block: 2 Lot(s): 38
Project Description	n: PV Solar Panel Install - Roof Mounted System

Note: This questionnaire must be accompanied with a Plot Plan that clearly illustrates the location and dimensions of the proposed activity. Said Plot Plan must include a line which encircles the total area of proposed land disturbance and the approximate area of disturbance must be calculated (square feet). Failure to submit these items will delay review.

Owner's Information

Owner's Name: Scott Univer	Phone: 914-417-7828
Owner's Address:88 Whippoorwill Rd. E, Armonk, NY 10504	
Authorized Agent's Information (if applicable)	
Agent's Name: A. Sicari, Jr. NYS Solar Farm, Inc.	Phone: 845-256-6051
Agent's Adress: 1938 Route 44-55 Modena, NY 12548	
As the owner/agent/(circle one), I hereby state that to the best of my know	ledge, the information provided
herein is accurate. In addition, I hereby grant permission to the Town's p.	rofessional consultants to enter
onto my property to conduct a site inspection.	
Owner/Agent Name (print): Anthony S. Sicari, Jr. NYS Solar F	arm, Inc.
Owner/Agent Name (signature):	Date: 11/C/20
FOR TOWN USE - PLEASE DO NOT WRITE BELOW	
FOR TOWN USE - PLEASE DO NOT WRITE BELOW T 1. The existing/proposed use is: ☐ Residential ☐ Nonresidential	
1	
1. The existing/proposed use is: \square Residential \square Nonresidential	
 The existing/proposed use is:	THIS LINE
 The existing/proposed use is: Residential □ Nonresidential Is a Town Wetland Permit required? □ Yes □ No Date of RPRC Review:	THIS LINE

7. Area of proposed disturbance: $\Box < 5,000 \text{ s.f.} \Box 5,000 \text{ s.f.} < 1 \text{ acre} \Box \ge 1 \text{ acre}$

SUNPOWER[®] by New York State Solar Farm

NEW YORK STATE SOLAR FARM 1938 STATE ROUTE 44/55, MODENA, NY 12548

UNIVERSAL NEW YORK PROPERTY OWNER'S ENDORSEMENT (Person applying for building permit is not the property owner)

State of New York county of ______ Westchester _____l hereby certify that

Scott Univer ١.

> 88 Whippoorwill Rd. E, Armonk, NY 10504 (address) in the Town of

North Castle

_____. I also hereby authorize Anthony S. Sicari, Jr. of SunPower by

_am the owner in fee of

New York State Solar Farm, Inc. to apply for, file, and receive permit(s) to perform the installation of a

photovoltaic system on my residence.

Aut My Ulim _____Date_///7/20___ Owner Signature

SunPower® by New York State Solar Farm SunPower® Master Dealer Solar System Design and Installation

1938 Rt. 44/55, Modena, NY 12548 Tel: 845-255-0610 Email: info@nyssf.com

STATE WIDE INSPECTION SERVICES, INC. Service With Integrity

A SWIS JOB APPLICATION

tel 845.202.7224 fax 914.219.1062 SWISNY.com

Office Use				Elect. Permit #						Date 11/05/20				
				Bldg Permit #										
					Ternp #						Sg Ft 1490.4 Total Roof Array Area			
						······			-			Utility ID #		
City / Village	A					al Certificate #				- 1 -		Con-Ed		
	Armonk	*****			Zip 10504 Township North Castle			- North Constant	County Westchester					
	Vhippoorw				Cross Street Whippoorwill Section			Section	107.02	Blo	Block 2 Lot 38			
Owner Name /	Address (If different	t than abo	ve) Sco	ott Unive	er					Contact	Number		845-256-6051	
Basement	1st Fl.	2nd	Fl.	3rd Fl.	JM	ore Than 3 Fl.	Garage	• [Att	ttic 🔽 Outside		\checkmark	Residential	Commercial
Receptacles	Special Recept Amt Amps	GFCI		AFCI		Switches	Dimmers		Smoke Alarms		Carbon Monox		Hood	Trash Compact
Range (s)	Cooktop (s)	Oven (s)	Dishwasher	S	Refrigerator	Disposal		Micro	wave Warm Draw		v	Fotures Incandescent	Fluorescent
					alest.	SER	VICE						L	
Amperage	Voltage	1P	3P	# Meters	# Disconnect Underground Overhead			New 🔲 Reconnect Change						
Visual Re-Ir	spection			Safety	Re	Re-Inspection Re-Inspection								
Additional Information PV Solar Install - Roof Mount System Size: 17.6 kW (32.325 kW w/ PV Modules: (55) Sunpower E19-320 Micro Inverter (55) Branches = 5 E19-320-E-AC 200 Amp Main Service Panel 125A PV Dedicated Panel 1: (1) 15 amp 2 pole breaker (4) 20 amp 2 pole breaker (1) 80 amp 2 pole breaker 100A PV Dedicated Panel 2: (1) 15 amp 2 pole breaker (1) 20 amp 2 pole breaker (1) 20 amp 2 pole breaker (1) 60 amp 2 pole breaker This application is valid for one (1) year from the date received by SWIS. This apple				I-E	-AC	Inv Lo Co Mo Jun Di AC Fu Ur Pro DC	verte ad C ombi- onito nctio scon C Dis sed I ofuse oduc C Dis	r - 5 ente ner F or- n Bo nect- coni Disco d Di tion	5 Micr r- Box - x- 5 R nect- onnect- sconne Meter- nect	ect-	ers	ed	en installed, you are	
Inspector	agrees to all the above				1.000		Finalized		******	Inspecto	or#			
Contractor NYS Solar Farm Inc					Date 11/05/2						2			

	nisheers.		all the second second	Date finalized	A CONTRACT OF	inspector #	0	and the second	
Contractor NYS Solar Farm, Inc.			Date 11/05/2	20	Signature	K	ALL MADE AND ADDRESS OF ADDRESS OF ADDRESS ADDRESS ADDRESS ADDRESS ADDRESS ADDRESS ADDRESS ADDRESS ADDRESS ADDR		
	Address	1938 Route	44-55	City / State	Mode	ina, NY	Zip Code	12548	
	License #	H/I wc-25236-H12 Elec	800 ID)#		Phone #	845-256-6051		

Westchester County Executive George Latimer

Vestchester

Director, Consumer Protection James Maisano

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Department of Consumer Protection Home Improvement License

NEW YORK STATE SOLAR FARM INC.

871 STATE ROUTE 208 GARDINER, NY-12525

This license is issued in accordance with Article XVI of the Westchester County Consumer Protection Code and is valid only upon presence of the official department seal. Proof of citizenship or immigration status is not required for issuance of this license. NOT FOR FEDERAL PURPOSES

WC-25236-H12

License Number



Date of Expiration 07/26/2022 THO IN U.S.

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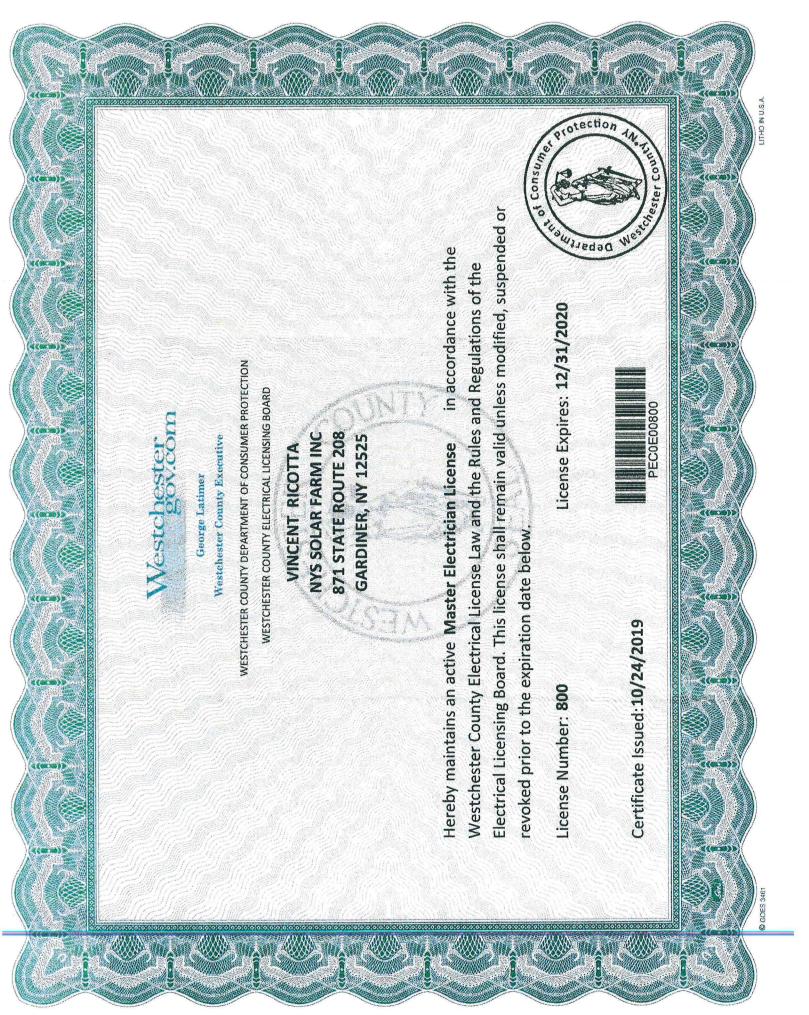
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Westchester County Electrical Licensing Board Westchester County Consumer Protection Master Electrician License 2020



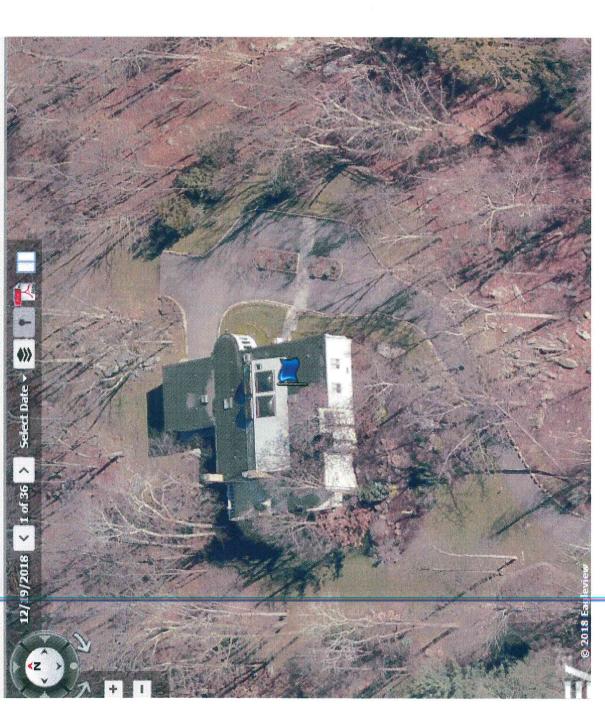
Vincent Ricotta D.O.B: 8/18/1940 Company: NYS Solar Farm Inc 871 State Route 208 Gardiner, NY 12525

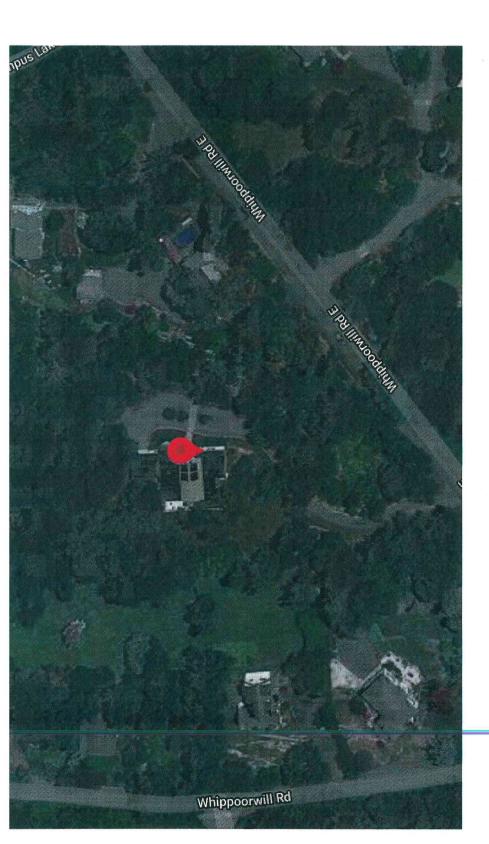
License No. 800 Expires on:12/31/2020 Peter Borducci











ACORD	

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 11/03/2020

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS									
CERTIFICATE DOES NOT AFFIRMATIVE BELOW. THIS CERTIFICATE OF INSUR									
REPRESENTATIVE OR PRODUCER, AN				UNTRA	ACT BETWEE	IN THE 15501	NG INSURER(S), AUTHO	RIZED	
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	o the	terms	s and conditions of the po	olicy, ce	rtain policies				
this certificate does not confer rights to	o the	certifi	icate holder in lieu of sucl						
PRODUCER				CONTA NAME:	CT Richard F		FAX		
Integrated Brokerage Services, Inc.				PHONE (A/C, N E-MAIL		97-2900	FAX (A/C, No):	(516) 9	97-2910
303 Sunnyside Blvd				ADDRE	ss: richardf@)ibsinsurance.c	com		
Suite 25			NN/ 11000		14/				NAIC #
Plainview			NY 11803	INSURE		ester Surplus L	ance Company		10172
INSURED New York State Solar Farm, Inc				INSURE		Fire Insurance	1 2		29157
871 State Route 208				INSURE		Fire insurance	0		19682
87 T State Route 200				INSURE					
Gardiner			NY 12525	INSURE					
	TICIC	ATE		INSURE	RF:				
COVERAGES CER THIS IS TO CERTIFY THAT THE POLICIES OF		_	TTOMPETT				REVISION NUMBER:		
INDICATED. NOTWITHSTANDING ANY REQU									
CERTIFICATE MAY BE ISSUED OR MAY PERT EXCLUSIONS AND CONDITIONS OF SUCH PC							UBJECT TO ALL THE TERMS	,	
INSP	ADDL	SUBR		REDUC	POLICY EFF				
TYPE OF INSURANCE COMMERCIAL GENERAL LIABILITY	INSD	WVD	POLICY NUMBER		(MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)		s \$ 1,000	000
							EACH OCCURRENCE DAMAGE TO RENTED	\$ 50,00	
CLAIMS-MADE CLAIMS-MADE							PREMISES (Ea occurrence)	\$ 5,000	
A			G71201600003		11/05/2020	11/05/2021	MED EXP (Any one person)		
					THOULDED	11/00/2021	PERSONAL & ADV INJURY	\$ 1,000,000 \$ 2,000,000	
GEN'L AGGREGATE LIMIT APPLIES PER:							GENERAL AGGREGATE	\$ 2,000	
OTHER:							PRODUCTS - COMP/OP AGG	\$ _,	.,
							COMBINED SINGLE LIMIT	\$	
ANY AUTO							(Ea accident) BODILY INJURY (Per person)	\$	
OWNED SCHEDULED							BODILY INJURY (Per accident)	\$	
HIRED NON-OWNED AUTOS ONLY							PROPERTY DAMAGE (Per accident)	\$	
								\$	
UMBRELLA LIAB OCCUR							EACH OCCURRENCE	\$	
EXCESS LIAB CLAIMS-MADE							AGGREGATE	\$	
DED RETENTION \$								\$	
WORKERS COMPENSATION AND EMPLOYERS' LIABILITY							X PER OTH- STATUTE ER		
ANY PROPRIETOR/PARTNER/EXECUTIVE	N/A		WC50600166019SZ		09/14/2020	08/14/2021	E.L. EACH ACCIDENT	\$ 1,000	0,000
(Mandatory in NH)	NA		WC5000010001952		08/14/2020	08/14/2021	E.L. DISEASE - EA EMPLOYEE	\$ 1,000	
If yes, describe under DESCRIPTION OF OPERATIONS below							E.L. DISEASE - POLICY LIMIT	\$ 1,000	0,000
Contractor's Equipment - Installation									
C Floater			12MSBI5789K1		11/05/2020	11/05/2021	Any one premises:	\$150	,000
DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICL	ES (AC	CORD 1	01, Additional Remarks Schedule,	may be a	ttached if more s	pace is required)			
CERTIFICATE HOLDER	CERTIFICATE HOLDER CANCELLATION								
							SCRIBED POLICIES BE CAN , NOTICE WILL BE DELIVER		BEFORE
Town of North Castle							PROVISIONS.		
17 Bedford Road									
				AUTHORIZED REPRESENTATIVE					
Armonk			NY 10504				Richard Finisk		
				1			act and Jamest		

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CERTIFICATE OF Compensation NYS WORKERS' COMPENSATION INSURANCE COVERAGE

1a. Legal Name & Address of Insured (use street address only)	1b. Business Telephone Number of Insured
New York State Solar Farm Inc 871 State Route 208 Gardiner, NY 12525	845-255-0610 1c. NYS Unemployment Insurance Employer Registration Number of Insured
Work Location of Insured (Only required if coverage is specifically limited to certain locations in New York State, i.e., a Wrap-Up Policy)	1d. Federal Employer Identification Number of Insured or Social Security Number 320239169
2. Name and Address of Entity Requesting Proof of Coverage (Entity Being Listed as the Certificate Holder) Town of North Castle 17 Bedford Road Armonk, NY 10504	 3a. Name of Insurance Carrier United Wisconsin Insurance Company 3b. Policy Number of Entity Listed in Box "1a" WC506-00166-020-SZ 3c. Policy effective period <u>1/1/2020</u> to <u>1/1/2021</u> 3d. The Proprietor, Partners or Executive Officers are included. (Only check box if all partners/officers included) included or certain partners/officers excluded.

Workers'

Board

This certifies that the insurance carrier indicated above in box "3" insures the business referenced above in box "1a" for workers' compensation under the New York State Workers' Compensation Law. (To use this form, New York (NY) must be listed under Item 3A on the INFORMATION PAGE of the workers' compensation insurance policy). The Insurance Carrier or its licensed agent will send this Certificate of Insurance to the entity listed above as the certificate holder in box "2".

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

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

This certificate may be used as evidence of a Workers' Compensation contract of insurance only while the underlying policy is in effect.

Please Note: Upon cancellation of the workers' compensation policy indicated on this form, if the business continues to be named on a permit, license or contract issued by a certificate holder, the business must provide that certificate holder with a new Certificate of Workers' Compensation Coverage or other authorized proof that the business is complying with the mandatory coverage requirements of the New York State Workers' Compensation Law.

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

Approved by:	/: Alicia Christiansen					
Approved by:	(Print name of authorized representative or licensed age Microe Hortstond					

Title: Assistant Director of Sales Operations

Telephone Number of authorized representative or licensed agent of insurance carrier: 941-306-3077

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

C-105.2 (9-17)

www.wcb.ny.gov

NEW	Workers'
YORK	Compensation
STATE	Board
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CERTIFICATE OF INSURANCE COVERAGE DISABILITY AND PAID FAMILY LEAVE BENEFITS LAW

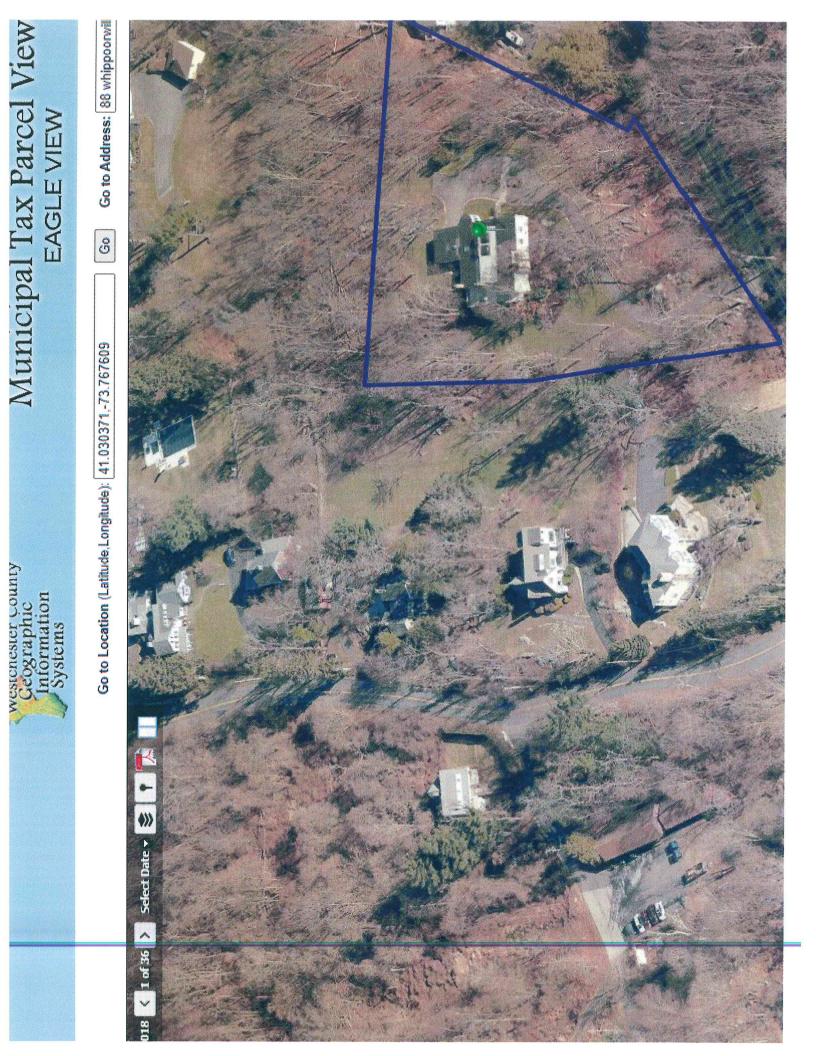
PART 1. To be o	completed by Disability and	Paid Family Leave	Benefits Carrier or Licensed Insurance Agent of that Carrier				
	Address of Insured (use street ad TE SOLAR FARM, INC.	ldress only)	1b. Business Telephone Number of Insured 518-610-8164				
1938 ROUTE 4 MODENA, NY 12							
	nsured (Only required if coverage is s lew York State, i.e., Wrap-Up Policy)	specifically limited to	1c. Federal Employer Identification Number of Insured or Social Security Number 320239169				
	ress of Entity Requesting Proof of sted as the Certificate Holder)	Coverage	3a. Name of Insurance Carrier ShelterPoint Life Insurance Company				
Town of North	n Castle		3b. Policy Number of Entity Listed in Box "1a"				
17 Bedford Roa	ad		DBL362330				
Armonk, NY 10	0504		3c. Policy effective period 07/15/2019 to 07/14/2021				
A. Both dia B. Disabili C. Paid fai 5. Policy covers: X A. All of th	 B. Disability benefits only. C. Paid family leave benefits only. 5. Policy covers: 						
	erjury, I certify that I am an autho Disability and/or Paid Family Leav		icensed agent of the insurance carrier referenced above and that the named verage as described above.				
Date Signed	7/8/2020 B	y	Auled O. Wate				
			carrier's authorized representative or NYS Licensed Insurance Agent of that insurance carrier)				
Telephone Numbe	r <u>516-829-8100</u>	Name and Title R	ichard White, Chief Executive Officer				
IMPORTANT:			signed by the insurance carrier's authorized representative or NYS ficate 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	В	y	Signature of Authorized NYS Workers' Compensation Board Employee)				
Tolophone Number							
			aid family leave benefits insurance policies and NYS licensed insurance				

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.





Mapping Westchester County



M GIS GEOGRAPHIC SHORMATION VITENS

Current Occupant 100 WHIPPOORWILL RD E ARMONK, NY 10504

Current Occupant 3 LEDGEWOOD PL ARMONK, NY 10504 Current Occupant 54 WHIPPOORWILL RD ARMONK, NY 10504

Current Occupant 52 WHIPPOORWILL RD ARMONK, NY 10504 Current Occupant 88 WHIPPOORWILL RD E ARMONK, NY 10504

Current Occupant 82 WHIPPOORWILL RD E ARMONK, NY 10504