Historical Areas Board of Review(HABR)

Town of Orangetown Building Department
20 Greenbush Road, Orangeburg, New York 10962

PROPERTY ADDRESS: 7 Kopar Lane Section/Block/Lot: 78.13-1-3.13

1. Provide a narrative summary explaining the project and including any facts pertaining to this project which applicant feels would be of interest to the Board;
2. Architectural Plans;
3. It is preferable to the HABR if the Architect would appear at the meeting with the Applicant.
4. Please bring SAMPLES of building materials to the meeting.
5. Materials checklist: (please provide the brand name, type, style, model and color numbers):

	COLOR	MATERIAL	MANUFACTURER
Roof:			
Siding:			
Decorative Siding:			
Soffits & Fascia:			
Gutters & Leaders:			
Windows:			
Trim:			
Shutters:			
Front Door:			
Back Door:			
Garage Door(s):			
Other Door(s):			
Lighting:			
Lighting:			
Stone or Rock being used on Structure:			
Stone or Rock being used on walkway(s):			
Other:	Black solar Panels on back, right side and front of home	Glass	SunPower

Name of Municipality: TOWN OF ORANGETOWN **Date Submitted:**_____

2023 LAND USE BOARD APPLICATION

Please check all that apply:

___Commercial
___ **Planning Board**
___ **Zoning Board of Appeals**

___ Subdivision
___ Number of Lots
___ Site Plan
___ Conditional Use

___ Special Permit
___ Variance
___ Performance Standards Review
___ Use Variance
___ Other (*specify*): _____

___Residential
___ **Historical Board**
___ **Architectural Board**

___ Consultation
___ Pre-Preliminary/Sketch
___ Preliminary
___ Final
___ Interpretation

PERMIT#: SOLP 2376-22
ASSIGNED INSPECTOR: Dom

Referred from Planning Board: YES / NO
If yes provide date of Planning Board meeting: _____

Project Name: Ginger Zee - Solar Panels

Street Address: 7 Kopac Lane
Palisades, NY 10964

Tax Map Designation:
Section: 78.13 Block: 1 Lot(s): 3.13
Section: _____ Block: _____ Lot(s): _____

Directional Location:

On the _____ side of _____, approximately _____ feet _____ of the intersection of Route 9W, in the Town of Orangetown in the hamlet/village of _____.

Acreage of Parcel .97
School District Orangetown
Ambulance District Spark Hill Palisades
Water District Veolia
Zoning District _____
Postal District Spark Hill Palisades
Fire District Spark Hill Palisades
Sewer District Orangetown

Project Description: *(If additional space required, please attach a narrative summary.)*
Installation of a 13.70kW Grid Tied Roof Mounted Solar System. Installing a total of 33 solar panels (4 located in front of house, 6 on the right side and 23 behind the house)

The undersigned agrees to an extension of the statutory time limit for scheduling a public hearing.

Date: 11/30/22 Applicant's Signature: [signature]

APPLICATION REVIEW FORM

Applicant: Ginger Zee Phone # (312) 213-8966

Address: 7 Kopac Lane (Street Name & Number) Palisades (Post Office) NY (City) (State) 10964 (Zip Code)

Property Owner: Ginger Zee Phone # (312) 213-8966

Address: 7 Kopac Lane (Street Name & Number) Palisades (Post Office) NY (City) (State) 10964 (Zip Code)

Engineer/Architect/Surveyor: _____ Phone # _____

Address: _____ (Street Name & Number) (Post Office) (City) (State) (Zip Code)

Attorney: _____ Phone # _____

Address: _____ (Street Name & Number) (Post Office) (City) (State) (Zip Code)

Contact Person: Emily Quiroa Phone # (914) 438-0360

Address: 400 Executive Blvd STE 137 (Street Name & Number) Elmsford (Post Office) NY (City) (State) 10523 (Zip Code)

GENERAL MUNICIPAL LAW REVIEW:

This property is within 500 feet of:
(Check all that apply)

IF ANY ITEM IS CHECKED, A REVIEW MUST BE DONE BY THE ROCKLAND COUNTY COMMISSIONER OF PLANNING UNDER THE STATE GENERAL MUNICIPAL LAW, SECTIONS 239 L, M, N, AND NN.

_____ State or County Road
_____ Long Path
_____ Municipal Boundary
____ State or County Park
____ County Stream
____ County Facility

List name(s) of facility checked above:

_____

_____

Referral Agencies:

_____ RC Highway Department
_____ RC Drainage Agency
_____ NYS Dept. of Transportation
_____ NYS Thruway Authority
_____ Adjacent Municipality _____
_____ Other _____
_____ RC Division of Environmental Resources
_____ RC Dept. of Health
_____ NYS Dept. of Environmental Conservation
_____ Palisades Interstate Park Commission

APPLICATION REVIEW FORM

FILL IN WHERE APPLICABLE.

(IF THE FOLLOWING DOES NOT APPLY PLEASE MOVE ON TO THE NEXT PAGE)

If subdivision:

1) Is any variance from the subdivision regulations required?_____
2) Is any open space being offered? ____ If so, what amount? _____
3) Is this a standard or average density subdivision?_____

If site plan:

1) Existing square footage _____
2) Total square footage _____
3) Number of dwelling units _____

N/A

If special permit, list special permit use and what the property will be used for.

_____

_____

Environmental Constraints:

Are there **slopes greater than 25%**? If yes, please indicate the amount and show the gross and net area_____

Are there **streams** on the site? If yes, please provide the names._____

Are there **wetlands** on the site? If yes, please provide the names and type:

_____

Project History:

Has this project ever been reviewed before? NO

If so, provide a narrative, including the list case number, name, date, and the board(s) you appeared before, and the status of any previous approvals.

_____

_____

List tax map section, block & lot numbers for all other abutting properties in the same ownership as this project.

_____

_____

OFFICE OF BUILDING, ZONING, PLANNING,
ADMINISTRATION AND ENFORCEMENT
TOWN OF ORANGETOWN
20 Greenbush Road
Orangeburg, N.Y. 10962

Jane Slavin, R.A.
Director

(845)359-8410

Fax: (845) 359-8526

HISTORICAL AREAS BOARD OF REVIEW REFERRAL LETTER

Date: November 18, 2022

Applicant: Zee

Address: 7 Kopac Ln, Palisades, NY, 10964

RE: Application Made at: same

Subject Referral for: Chapter 12 Section 12-4 Paragraph A requires HABR Approval

Section: 78.13 **Block:** 1 **Lot:** 3.13

Dear Zee:

Please be advised that the Building Permit Application, which you submitted on November 8, 2022, has been referred to appear before the H.A.B.R. I have enclosed a copy of your application, where you will find at the bottom the reason for denial.

The Clerk to the Historical Areas Board of Review, Debbie Arbolino, can assist you in the preparation necessary to appear before the board. Please contact her at 845-359-8410 ext. 4331 or darbolino@orangetown.com

Sincerely,

11/18/22

Richard Oliver
Deputy Building Inspector

11/18/22

Signature of Director — Date

NOTE: PLEASE KEEP FOR YOUR RECORDS
12-31-18-CCC

CC: Rosanna Sfraga
Liz Decort
Debbie Arbolino

PERMIT EXPIRES TWO (2) YEARS FROM DATE OF ISSUANCE.
TWO SIX (6) MONTH EXTENSIONS MAY BE GRANTED PRIOR TO EXPIRATION DATE.

APPLICATION FOR BUILDING / DEMOLITION PERMIT
TOWN OF ORANGETOWN

20 Greenbush Road, Orangeburg, NY 10962 Phone: (845) 359-8410 Fax: (845) 359-8526

FOR OFFICE USE ONLY — SECTION 78.13 BLOCK 1 LOT 3.13 NAME ZEE PERMIT# Solr. 2376-22

ZONE: R-40 **OFFICIAL USE ONLY** **ACREAGE:** _____

Inspector: Dom **Date App Received:** 11/8/22 **Received By:** MAIL

Permit No. Solr 2376-22 **Date Issued:** _____

CO No. _____ **Date Issued:** _____

Permit Fee: 474 **Ck#** 15152 **Paid By** SUNPOWER CORP. SYSTEMS

GIS Fee: 20 **Ck#** " " **Paid By** "

Stream Maintenance Fee **Ck #** _____ **Paid By** _____

Additional Fee: _____ **Ck#** _____ **Date Paid** _____ **Paid By** _____

1st 6 mo. Ext.: _____ **Ck #** _____ **Exp. Date:** _____ **Paid By** _____

2nd 6 mo. Ext.: _____ **Ck #** _____ **Exp. Date:** _____ **Paid By** _____

RECEIVED NOV – 8 2022 TOWN OF ORANGETOWN

SCANNED NOV – 9 2022 BY: SM

APPLICANT COMPLETES:

Note: See inside for instructions for completing this application,
PAGES 2, 3 and PAGE 4 must be reviewed and PAGES 3 & 4 must signed by the applicant.

Property Location: 7 Kopac Lane Palisades, NY 10964

Section: 78.13 **Block:** 1 **Lot:** 3.13

Property Owner: Ginger Zee

Mailing Address: 7 Kopac Lane Palisades, NY 10964

Email: ginger.zee@gmail.com Phone #: 312-213-8966

Lessee (Business Name): SunPower Corporation Systems

Mailing Address: 400 Executive BLVD, STE 137 Elmsford, NY 10523

Email: emily.quiroa@sunpowercorp.com Phone #: 914-438-0360

Type of Business /Use: Solar Construction Company

Contact Person: Emily Quiroa **Relation to Project:** Agent

Email: emily.quiroa@sunpowercorp.com Phone#: 312-213-8966

Architect/Engineer: Paymond Eskandanian **NYS Lic #** 95481

Address: 28202 Cabot Road, STE 300 Laguna Niguel, CA 92677 Phone#: 914-371-5238

Builder/General Contractor: SunPower Corporation Systems **RC Lic #** H-18297

Address: 400 Executive Blvd. Ste 137 Elmsford, NY 10523 Phone#: 914-438-0360

Plumber: _____ **RC Lic #** _____

Address: _____ Phone#: _____

Electrician: Red Star Electric - Steve Costanzo **RC Lic #:** E-516

Address: 2 Hedge Row Congers, NY 10920 Phone#: 914-438-0360

Heat/Cooling: _____ **RC Lic#:** _____

Address: _____ Phone#: _____

Existing use of structure or land: Single Family Residential property

Proposed Project Description: Installation of a 13.70kW Roof-Mounted, Grid-Tied Solar System at residential property. Installing a total of 33 solar panels.

Proposed Square Footage: 699 **Estimated Construction Value ($):** 18,082.68

BUILDING DEPARTMENT COMPLETES BELOW

PLANS REVIEWED: _____

PERMIT REFERRED / DENIED FOR: Article IV, Section 12-4 Paragraph B requires HABR approval

11/18/22 11/18/22

IS	PRINT KEY	NAME	ADDRESS
489	78.13-1-4	Michael Yamin	P.O. Box 118,Palisades, NY 10964
489	78.14-1-1	State of NY Rockland County Treasurer	18 New Hempstead Rd,New City, NY 10956
489	78.14-1-3	Erica Y Chung	250 Rte 9W,Palisades, NY 10964
489	78.14-1-4	Young Ju Chung	250 Route 9W,Palisades, NY 10964
489	78.17-2-15.1	Janet Riccobono	P.O. Box 686,Palisades, NY 10964
489	78.17-2-15.2	Insil S Choi	23 Heyhoe Woods Rd,Palisades, NY 10964
489	78.17-2-15.3	Paul Elmowsky	100 River Rd,Nyack, NY 10960
489	78.17-2-16	Xiaoshi Xing	676 Oak Tree Rd,Palisades, NY 10964
489	78.17-2-17	So Orangetown School Dist	160 Van Wyck Rd,Blauvelt, NY 10913
489	78.17-2-18	Young Ju Chung	250 Route 9W,Palisades, NY 10964
489	78.17-2-19	Larry Bucciarelli	700 Oak Tree Rd,Palisades, NY 10964
489	78.18-1-1	Phillip A Bauman	P.O. Box 52,Palisades, NY 10964
489	78.18-1-2	9W Agora LLC	243 Rte 9W,Palisades, NY 10964
489	78.18-1-59	Palisades Cemetery Assoc Alice Gerard	P.O. Box 225,Palisades, NY 10964
489	78.18-1-60	William Ryan	228 Rte 9w,Palisades, NY 10964
489	78.18-1-62	Sylvia March	224 Route 9W,Palisades, NY 10964
489	78.18-1-63	William Ryan	P.O. Box 193,Palisades, NY 10964
489	78.13-1-2.1	Bret Anderson	286 Rte 9W,Palisades, NY 10964
489	78.13-1-2.2	Blythe Anderson-Chase	286 Rte 9W,Palisades, NY 10964
489	78.13-1-3.1	Emilio De Felice	2 Kopac Ln,Palisades, NY 10964
489	78.13-1-3.2	Boris A Mueller	4 Kopac Ln,Palisades, NY 10964
489	78.13-1-3.3	Jared Cohen	6 Kopac Ln,Palisades, NY 10964
489	78.13-1-3.4	Michael Shanahan	8 Kopac Ln,Palisades, NY 10964
489	78.13-1-3.5	Jeff Sicklick	10 Kopac Ln,Palisades, NY 10964
489	78.13-1-3.6	Jimmy S Zervoudis	12 Kopac Ln,Palisades, NY 10964
489	78.13-1-3.7	Harold J Hilderbrand	14 Kopac Ln,Palisades, NY 10964
489	78.13-1-3.8	Weihua W Liu	7 Hampton Rd,Monroe, NJ 08831
489	78.13-1-3.9	John Tramutola Jr	2000 Royal Ct,North Hills, NY 11040
489	78.13-1-3.10	Gurjeet Chadha	15 Kopac Ln,Palisades, NY 10964
489	78.13-1-3.11	Glen Eisenberg	11 Kopac Ln,Palisades, NY 10964
489	78.13-1-3.12	Keith Cozza	9 Kopac Ln,Palisades, NY 10964
489	78.13-1-3.13	Benjamin Colonomos	7 Kopac Ln,Palisades, NY 10964
489	78.13-1-3.14	Jeffrey S Brodsky	5 Kopac Ln,Palisades, NY 10964
489	78.13-1-3.15	Oleg Korenfeld	3 Kopac Ln,Palisades, NY 10964
489	78.13-1-3.16	Jason Beckerman	1 Kopac Ln,Palisades, NY 10964
489	78.13-1-3.17	Lennar New York LLC Town of Orangetown	2465 Kuser Rd Fl 3,Hamilton, NJ 08690
489	78.17-2-20.1	Dennis Tirch	694 Oak Tree Rd,Palisades, NY 10964
489	78.17-2-20.2	William Walther	P.O. Box 651,Palisades, NY 10964

HOMEOWNERS AUTHORIZATION FORM

I, Ginger (Zee) Zuidgeest
(Print Name)

am the owner of the property located at address:

7 Kopac Lane Palisades, NY 10964
(Print Address)

I hereby authorize Emily Quiroa, and their subcontracting company SunPower Corporation, to act as my Agent for the limited purpose of applying for and obtaining local building and other permits from the Authority Having Jurisdiction as required for the installation of a 13.70kW Grid Tied Roof Mounted Solar System. Installing a total of 33 solar panels on my property. I also hereby authorize Emily Quiroa with SunPower Corporation to attend the Historical Areas Board of Review on my behalf.

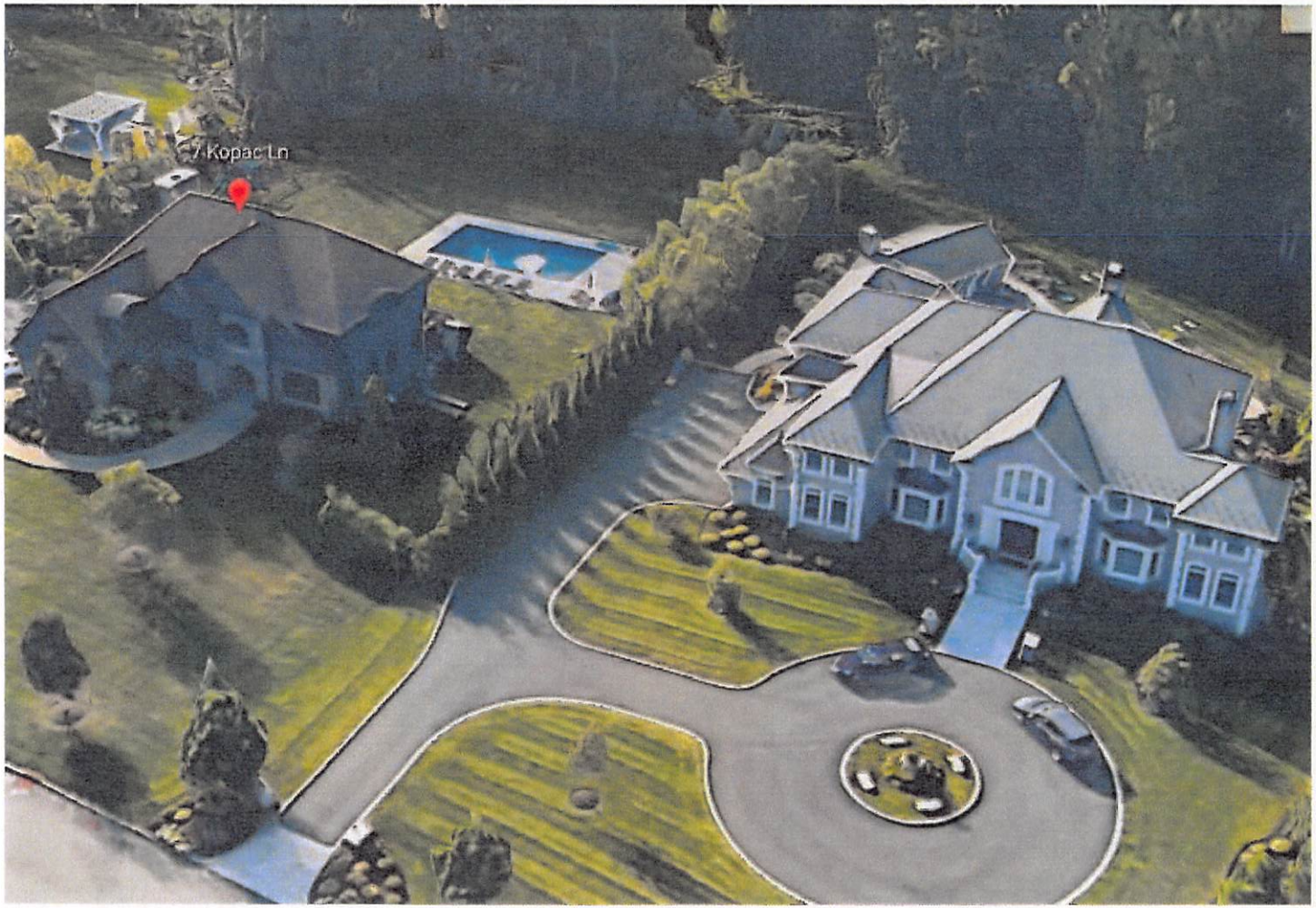
This authorization includes the transfer/re-administering, and/or cancellation of any existing permits on file for the purpose of updating/applying with an alternate subcontractor.

Customer Signature: X Ginger Zee

Print Name: Ginger Zee

Date: 12/1/22


7 Kopac Lane



Neighbor to the Right


7 Kopac Ln
Neighbor to the Left

Neighbor Across the Street

Aerial View

Render Photo

SOLAR INDIVIDUAL PERMIT PACKAGE

GINGER ZEE/BEN COLONOMOS

13.70 kW GRID TIED PHOTOVOLTAIC SYSTEM

3122138966
7 KOPAC LANE
PALISADES, NEW YORK 10964-1630

AHJ: ORANGETOWN TOWN
UTILITY: ORANGE & ROCKLAND UTILITIES, INC.

JOB NOTES

SCOPE OF WORK

- (N) 13.695 kW PHOTOVOLTAIC SYSTEM
- (33) SunPower SPR-M-415-BLK-H-AC PV MODULES
- POINT OF INTERCONNECTION AT AUTOMATIC TRANSFER SWITCH WITH LINE SIDE TAP

CODE INFORMATION

APPLICABLE CODES, LAWS AND REGULATIONS

2020 RESIDENTIAL CODE OF NEW YORK STATE (RCNYS)
2020 BUILDING CODE OF NEW YORK STATE (BCNYS)
2020 PLUMBING CODE OF NEW YORK STATE (PCNYS)
2020 MECHANICAL CODE OF NEW YORK STATE (MCNYS)
2020 FUEL GAS CODE OF NEW YORK STATE (FGCNYS)
2020 FIRE CODE OF NEW YORK STATE (FCNYS)
2020 PROPERTY MAINTENANCE CODE OF NEW YORK STATE (PMCNYS)
2020 EXISTING BUILDING CODE OF NEW YORK STATE (EBCNYS)
2020 ENERGY CONSERVATION CODE OF NEW YORK STATE (ECCNYS)
2017 NATIONAL ELECTRIC CODE (NEC)

SATELLITE IMAGE

SHEET INDEX

SUNPOWER®
CORPORATION, SYSTEMS
1414 HARBOUR WAY SOUTH
RICHMOND, CA 94804
(510) 540-0550

SPRI - NEW YORK
777 WESTCHESTER AVE.
WHITE PLAINS, NY 10604

Paymon Eskandanian
Digitally signed by Paymon Eskandanian
Date: 2022.10.17 15:51:42-07'00'

(FOR STRUCTURAL)

STATE OF NEW YORK
PAYMON ESKANDANIAN
EXCELSIOR
95481
LICENSED PROFESSIONAL ENGINEER

GINGER ZEE/BEN COLONOMOS
13.70 kW GRID-TIED PHOTOVOLTAIC SYSTEM

7 KOPAC LANE
PALISADES, NEW YORK 10964-1630

SOLAR INDIVIDUAL PERMIT PACKAGE
COVER SHEET

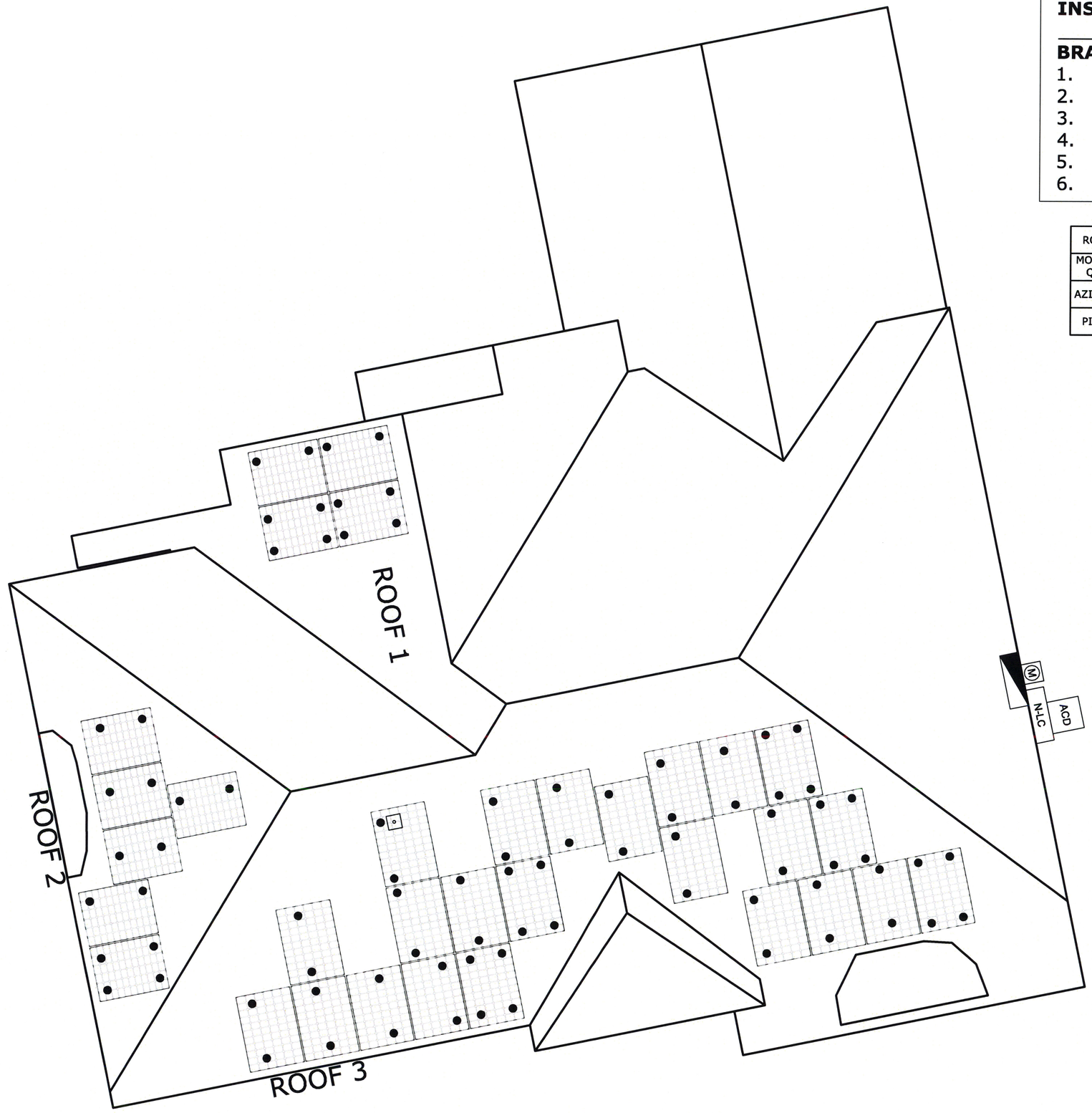
REVISIONS

REV	DESCRIPTION	DATE	DB

DRAWN BY: P. Poli
PI POLI

INSTALLER	SPRI - NEW YORK
PROJECT	RP-357019
DATE DRAWN	10-07-2022
SCALE	NTS

SHEET
PVA-0



INSTALLER NAME:

_____

BRANCH VOLTAGES:

1.
2.
3.
4.
5.
6.

ROOF	1	2	3			
MODULE QTY.	4	6	23			
AZIMUTH	258°	258°	168°			
PITCH	12:12	12:12	10:12			

SUNPOWER®
CORPORATION, SYSTEMS
1414 HARBOUR WAY SOUTH
RICHMOND, CA 94804
(510) 540-0550

SPRI - NEW YORK
777 WESTCHESTER AVE.
WHITE PLAINS, NY 10604

STATE OF NEW YORK
CHI FUNG LEUNG
104298
LICENSED PROFESSIONAL ENGINEER

GINGER ZEE/BEN COLONOMOS
13.70 kW GRID-TIED PHOTOVOLTAIC SYSTEM

7 KOPAC LANE
PALISADES, NEW YORK 10964-1630

SOLAR INDIVIDUAL PERMIT PACKAGE
BRANCH DIAGRAM

REVISIONS

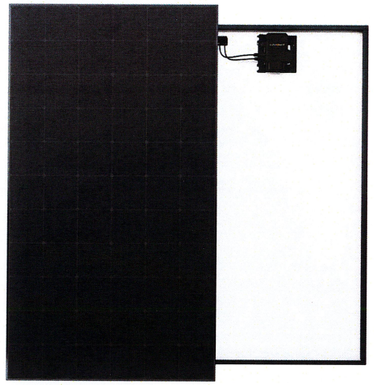
REV	DESCRIPTION	DATE	DB

DRAWN BY:
P. Poli
PI POLI

INSTALLER	SPRI - NEW YORK
PROJECT	RP-357019
DATE DRAWN	10-07-2022
SCALE	NTS

SHEET
PVE-5

SUNPOWER®



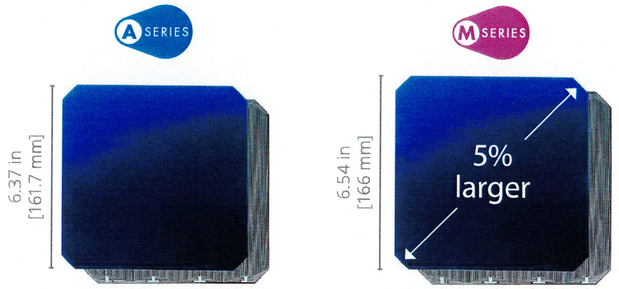
425-410 W Residential Black AC Module

SunPower® Maxeon® Technology

Built specifically for use with the SunPower Equinox® system, the only fully integrated solution designed, engineered, and warranted by one company.

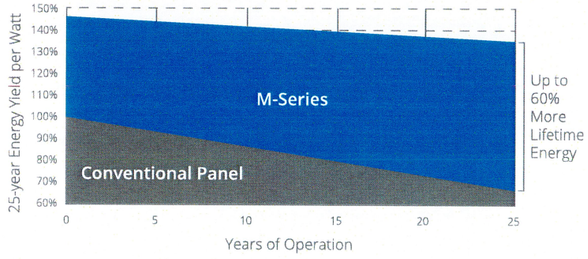
Highest Power Density Available

The patented, solid-copper foundation Maxeon Gen 6 cell is over 5% larger than prior generations, delivering the highest-efficiency all-black AC solar module available.[1]



Highest Lifetime Energy and Savings

Designed to deliver 60% more energy over 25 years in real-world conditions like partial shade and high temperatures.[2]



Best Reliability, Best Warranty

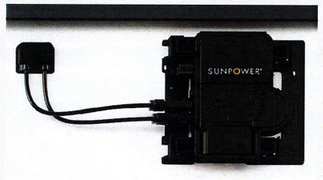
With more than 42.6 million and 15 GW of modules deployed around the world, SunPower technology is proven to last. That's why we stand behind our module and microinverter with the industry's best 25-year Combined Power and Product Warranty, including the highest Power Warranty in solar.

Part of the SunPower Equinox® Solar System

- Seamless aesthetics
- Compatible with mySunPower monitoring

Factory-integrated Microinverter

- Highest-power integrated AC module in solar
- Engineered and calibrated by SunPower for SunPower AC modules



M-Series: M425-BLK | M415-BLK | M410-BLK SunPower® Residential Black AC Module

AC Electrical Data		
Inverter Model: Type H (Enphase IQ7HS)	@240 VAC	@208 VAC
Peak Output Power (VA)	384	369
Max. Continuous Output Power (VA)	384	369
Nom. (L–L) Voltage/Range[3] (V)	240 / 211–264	208 / 183–229
Max. Continuous Output Current (A)	1.60	1.77
Max. Units per 20 A (L–L) Branch Circuit[4]	10	9
CEC Weighted Efficiency	97.0%	96.5%
Nom. Frequency	60 Hz	60 Hz
Extended Frequency Range	47–68 Hz	47–68 Hz
AC Short Circuit Fault Current Over 3 Cycles	4.82 A	4.82 A
Overvoltage Class AC Port	III	III
AC Port Backfeed Current	18 mA	18 mA
Power Factor Setting	1.0	1.0
Power Factor (adjustable)	0.85 (inductive) / 0.85 (capacitive)	0.85 (inductive) / 0.85 (capacitive)

DC Power Data			
	SPR-M425-BLK-H-AC	SPR-M415-BLK-H-AC	SPR-M410-BLK-H-AC
Nom. Power[6] (Pnom) W	425	415	410
Power Tolerance	+5/–0%	+5/–0%	+5/–0%
Module Efficiency	22.0%	21.5%	21.2%
Temp. Coef. (Power)	–0.29% / °C	–0.29% / °C	–0.29% / °C
Shade Tolerance	Integrated module-level max. power point tracking		

Tested Operating Conditions	
Operating Temp.	–40°F to +185°F (–40°C to +85°C)
Max. Ambient Temp.	122°F (50°C)
Max. Test Load[8]	Wind: 125 psf, 6000 Pa, 611 kg/m² back Snow: 187 psf, 9000 Pa, 917 kg/m² front
Max. Design Load	Wind: 75 psf, 3600 Pa, 367 kg/m² back Snow: 125 psf, 5400 Pa, 550 kg/m² front
Impact Resistance	1 inch (25 mm) diameter hail at 52 mph (23 m/s)

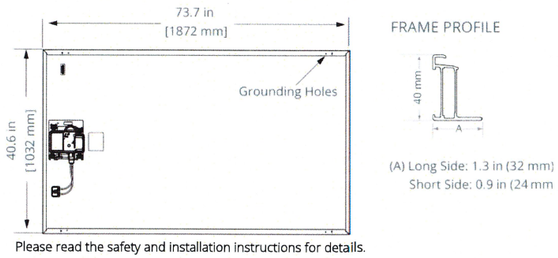
Mechanical Data	
Solar Cells	66 Maxeon Gen 6
Front Glass	High-transmission tempered glass with anti-reflective coating
Environmental Rating	Outdoor rated
Frame	Class 1 black anodized (highest AAMA rating)
Weight	48 lb (21.8 kg)
Recommended Max. Module Spacing	1.3 in. (33 mm)

Warranties, Certifications, and Compliance	
Warranties	• 25-year limited power warranty • 25-year limited product warranty
Certifications and Compliance	• UL 1741 / IEEE-1547 • UL 1741 AC Module • UL 61730 (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)[5] (includes Volt/Var and Reactive Power Priority) • UL Listed PV Rapid Shutdown Equipment[7] 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 AC module Q Cables and accessories (UL 6703 and UL 2238)[7] • Rated for load break disconnect When used with InvisiMount racking and InvisiMount accessories (UL 2703): • Module grounding and bonding through InvisiMount • Class A fire rated
PID Test	1000 V: IEC 62804

Packaging Configuration	
Modules per pallet	25
Packaging box dimensions	75.4 x 42.2 x 48.0 in. (1915 x 1072 x 1220 mm)
Pallet gross weight	1300 lb (590 kg)
Pallets per container	32
Net weight per container	18,880 kg

1 Based on datasheet review of websites of top 20 manufacturers per IHS, as of July 2021.
2 Maxeon 435 W, 22.5% efficient, compared to a Conventional Panel on same-sized arrays (300 W, 19% efficient, approx. 1.6 m²), 7.9% more energy per watt (based on PVSyst pan files for avg. US climate), 0.5%/yr slower degradation rate (Jordan, et. al. "Robust PV Degradation Methodology and Application."PVSC 2018).
3 Based on search of datasheet values from websites of top 10 manufacturers per IHS, as of June 2021.
4 Limits may vary. Refer to local requirements to define the number of microinverters per branch in your area.
5 Factory set to IEEE 1547a-2014 default settings. CA Rule 21 default settings profile set during commissioning.
6 Standard Test Conditions (1000 W/m² irradiance, AM 1.5, 25°C). All DC voltage is fully contained within the module.
7 UL Listed as PVRSE and conforms with NEC 2017 and NEC 2020 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.
8 Please read the safety and installation instructions for more information regarding load ratings and mounting configurations.

See www.sunpower.com/company for more reference information.
For more details, see extended datasheet: www.sunpower.com/solar-resources.
Specifications included in this datasheet are subject to change without notice.



Please read the safety and installation instructions for details.

AC MODULE GRID SUPPORT UTILITY INTERACTIVE PV RAPID SHUTDOWN EQUIPMENT E478330
LISTED
Module Fire Performance: Type 2

544400 RevB
March 2022

SunPower® Monitoring | Residential SunPower PV Supervisor

Improve Support, Reduce Costs

An intuitive monitoring website enables you to:

- See a visual map of customer sites
- Remotely manage hundreds of sites
- Remotely diagnose and troubleshoot system issues
- Drill down for the status of individual devices

Add Value for Customers

With mySunPower™ monitoring customers can:

- Track their energy production by day, month, year and in different weather conditions
- See their energy use and estimated bill savings
- Maximize their savings with automatic system alerts and tips
- Customize storage settings and easily monitor and track available battery power
- Receive elective system reports

SunPower® Monitoring—Plug-and-Play Installation

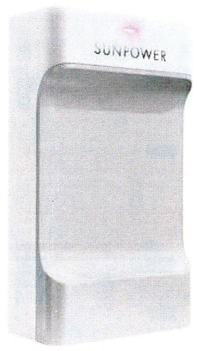
This complete solution for residential monitoring and control includes the SunPower® PV Supervisor (PVS) which improves the installation process, overall system reliability, and customer experience:

- Compact footprint for improved aesthetics
- Robust cloud connectivity and comprehensive local connectivity
- Flexible configuration of devices during installation
- Consumption metering
- Revenue-quality production metering
- Web-based commissioning
- Remote diagnostics of PVS and inverters
- Durable UL Type 3R enclosure helps reduce maintenance costs
- Easy integration with SunPower eBOS

Robust Cloud Connectivity

Multiple options to maintain optimal connectivity:

- Hardwired Ethernet
- WiFi
- Cellular backup



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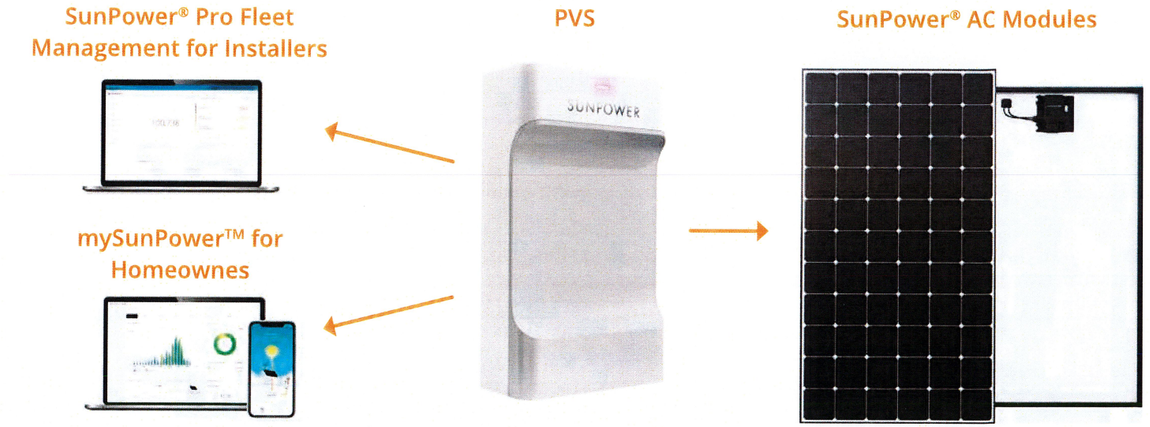

Site Requirements	
Number of modules supported per PVS	• 85 (SunPower AC modules)
Internet access	• High-speed internet access via accessible router or switch
Power	• 100–240 VAC (L–N), 50 or 60 Hz • 208 VAC (L–L in phase 3), 60 Hz

Mechanical	
Weight	• 5.5 lb (2.5 kg)
Dimensions	• 11.8 × 8.0 × 4.2 in. (30.5 × 20.5 × 10.8 cm)
Enclosure rating	• UL 50E Type 3R

Operating Conditions	
Temperature	• –22°F to +140°F (–30°C to +60°C)
Humidity (max.)	• 95%, non-condensing

Warranty and Certifications	
Warranty	• 10-year Limited Warranty
Certifications	• UL, cUL, CE, UL 61010-1 and -2, FCC Part 15 (Class B)

Communication	
RS-485	• Supports string inverters, external meters, and other auxiliary devices
Integrated metering	• One channel of revenue-quality production metering • Two channels of consumption metering
Ethernet	• 1 LAN (or optional WAN) port
PLC	• Supports SunPower AC modules
WiFi	• 802.11b/g/n 2.4 GHz and 5 GHz
Cellular	• LTE Cat-M1/3G UMTS
ZigBee	• IEEE 802.15.4 MAC, 2.4 GHz ISM band
Data storage	• 60 days
Upgrades	• Automatic firmware upgrades

Web and Mobile Device Support	
Customer site	• mysunpower.com
Partner site	• monitor.sunpower.com
Browsers	• Firefox, Safari, and Chrome
Mobile devices	• iPhone®, iPad®, and Android™
Customer app	1 Create account online at mysunpower.com 2 On a mobile device, download the SunPower Monitoring app from Apple App Store or Google Play™ Store 3 Sign in using account email and password

CLASSIFIED UL

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530536 Rev D