

From: "Jason Lord" <jasonl@mendocinosolar.com>
To: "Juliana Cherry" <cherryj@mendocinocounty.org>
Date: 12/11/2020 4:26 PM
Subject: January MHRB docs for Ukiah Street
Attachments: Khan Cottage.jpg; KhanCottage overhead.jpg; spr-a-series-420-415-410-400-390-g-ac-datasheet-534092-revb.pdf; IMG_6332.JPG

Hi Julianna,

I have been speaking with the property owner to make sure the plan is good, and we are going ahead with a project for 14x 410W SunPower G Series AC solar modules on the back cottage house roof at 44960 Ukiah Street. I am no architect so elevations are a little foreign to me. I hope that the too scale sketchup jpeg will be enough for the review board. I also attached a photo of another SunPower job that we did recently for reference to the module. I attached a datasheet for the modules we are going to be using. The members of the board were asking about the size and specs of the solar panels being used so this datasheet will give them all of that information. let me know if you need me to add anything else so that we are prepared for next months meeting.

Hoping you are well,
Jason Lord

> Hi, Jason
> Thank you for your message. I tried to return the discussion back to this
> item, but you were no longer logged in to the zoom software. Let's talk
> more tomorrow? My direct line is 234-2888.
>
> -- J.
> Juliana Cherry Direct Line 707-234-2888
> Planning and Building Services - Fort Bragg Office
>
>
>
>>>> "Jason Lord" <jasonl@mendocinosolar.com> 12/7/2020 4:14 PM >>>>
> Hi Juliana,
>
> I did not realize that we needed to provide more information to the board
> members prior to the meeting. I have several pictures, to scale drawing
> and personal experience I could have used to give the board members a
> better sense of what the arrays would look like. Since the arrays are on
> the visible side of house, I understand that the installation of these
> modules could be highly visible and offensive to some people. I can
> attach photos here to be submitted for review. Those photos, plus the
> data sheet for the modules, and the permit should suffice right? I am
> under the assumption that the permit for 44960 Ukiah street will not be
> issued until the MHRB reviews the proposal again next month. The home
> owner was listening to the meeting so will know that we won't be moving
> forward with the project yet. The board really didn't give me a chance
> answer any of their follow up questions and concerns. Is there a set
> etiquette and protocol for making public comments during the meeting?
>
> Thanks,
> Jason Lord
>> Hi, Jason, Bruce, and Jim,
>>
>> Its about 1:30 on Monday and I am just sorting through emails from the
>> weekend. I believe that Bruce and Jason are added to the list for
>> today's
>> MHRB meeting at 2 PM.
>> If you have not received a zoom meeting invitation, please let Jim know.
>> Thank you.
>>
>> -- J.
>> Juliana Cherry Direct Line 707-234-2888
>> Planning and Building Services - Fort Bragg Office

>>
>>
>>
>>>> Bruce Erickson <bruce@mendocinosolar.com> 12/6/2020 2:52 PM >>>
>> Hello Mr. Feehan,
>>
>> Too late I received a voicemail from Juliana Cherry about RSVPing for
>> the
>> above meeting. We have permit application BF_2020-0600 to deal with. I
>> realize it is technically too late, but we really need to be able to
>> participate in the Zoom meeting. If at all possible, please include
>> Jason
>> Lord as the representative for Mendocino Solar Service, the contractor
>> representing the owner Patricia Khan.
>>
>> His info: Jason Lord
>> Agenda item 11a and BF_2020-0600
>> jasonl@mendocinosolar.com <mailto:jasonl@mendocinosolar.com>
>> 707-734-0246
>>
>> I hope you can add us to the list at this late time, and I apologize for
>> the special request.
>>
>> Thank you,
>> Bruce Erickson
>>
>>
>>
>> Bruce Erickson
>> Mendocino Solar Service
>> 707-937-1701 admin line
>> 707-937-1741 Bruce direct
>> PO Box 1252
>> Mendocino, CA 95460
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>> "Serving the Solar System"
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>
> Jason Lord
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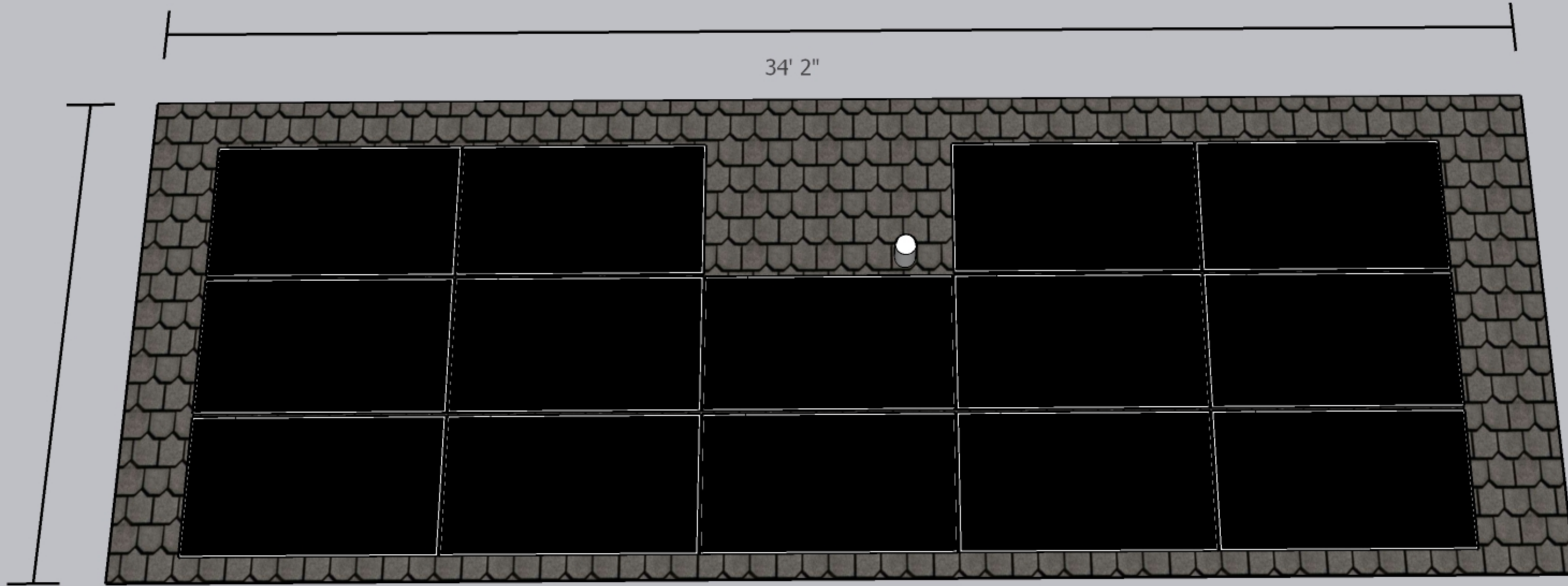




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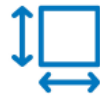
We are Proposing the installation of 14 SunPower 410W G series solar modules with integrated AC micro-inverters. Panels shall be affixed to rails, which anchor to the roof through lag mounted solar flashing attached to existing roof rafters. AC circuits then run through conduit to the buildings electrical panel to 2x 20A circuit breakers. Monitoring system shall be powered by a 15A circuit breaker and be connected to the home owners internet, where production data can be viewed from the SunPower connect platform.



420-390 W Residential AC Module

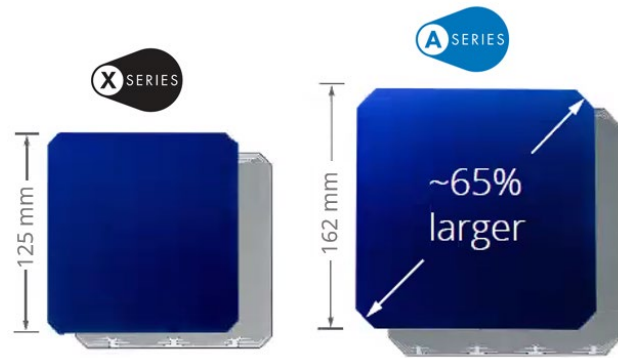
SunPower® Maxeon® Technology

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



Highest Power Density Available.

SunPower's new Maxeon® Gen 5 cell is 65% larger than prior generations, delivering the most powerful cell and highest-efficiency module in residential solar. The result is more power per square meter than any commercially available solar.



Fundamentally Different. And Better.



SunPower® Maxeon® Technology

- Most powerful cell in home solar ²
- Delivers unmatched reliability ³
- Patented solid metal foundation prevents breakage and corrosion



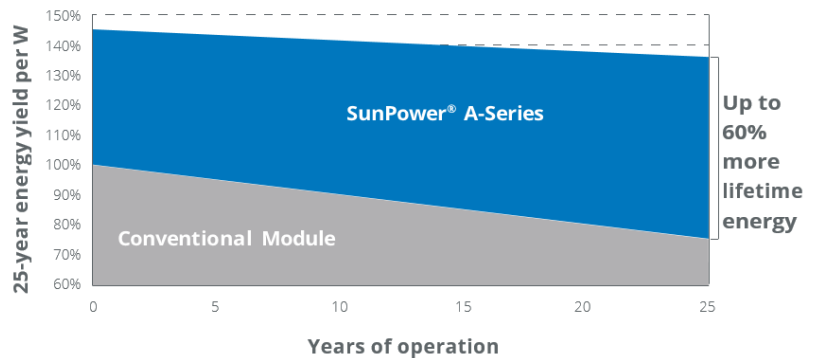
Factory-integrated Microinverter (MI)

- Highest-power integrated AC module in solar
- 60% lighter than prior SunPower MIs
- Engineered and calibrated by SunPower for SunPower AC modules



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



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.



A-Series: A420 | A415 | A410 | A400 | A390 SunPower® Residential AC Module

AC Electrical Data	
Inverter Model: Type G / SPWR-A4 (IQ 7AS)	@240 VAC
Peak Output Power	366 VA
Max. Continuous Output Power	349 VA
Nom. (L-L) Voltage/Range ² (V)	240 / 211–264
Max. Continuous Output Current (A)	1.45
Max. Units per 20 A (L-L) Branch Circuit ³	11
CEC Weighted Efficiency	97.0%
Nom. Frequency	60 Hz
Extended Frequency Range	47–68 Hz
AC Short Circuit Fault Current Over 3 Cycles	5.8 A rms
Oversvoltage Class AC Port	III
AC Port Backfeed Current	18 mA
Power Factor Setting	1.0
Power Factor (adjustable)	0.7 lead. / 0.7 lag.

DC Power Data					
	A420-G-AC	A415-G-AC	A410-G-AC	A400-G-AC	A390-G-AC
Nom. Power ⁵ (Pnom) W	420	415	410	400	390
Power Tol.	+5/-0%				
Module Efficiency	22.5	22.3	22.0	21.5	20.9
Temp. Coef. (Power)	-0.29%/°C				
Shade Tol.	Integrated module-level max. power point tracking				

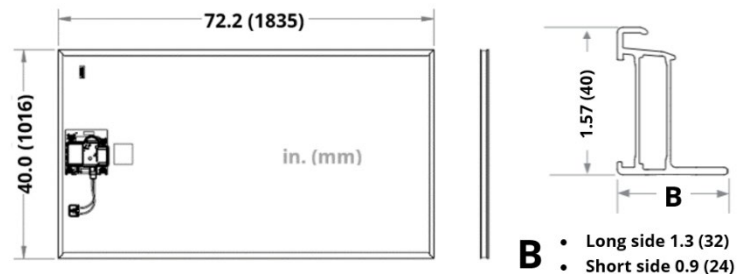
Tested Operating Conditions	
Operating Temp.	-40°F to +185°F (-40°C to +85°C)
Max. Ambient Temp.	122°F (50°C)
Max. Test Load ⁷	Wind: 125 psf, 6000 Pa, 611 kg/m ² back Snow: 187 psf, 9000 Pa, 917 kg/m ² front
Design Load	Wind: 75 psf, 3600 Pa, 367 kg/m ² back Snow: 125 psf, 6000 Pa, 611 kg/m ² front
Impact Resistance	1 inch (25 mm) diameter hail at 52 mph (23 m/s)

Mechanical Data	
Solar Cells	66 Monocrystalline Maxison Gen 5
Front Glass	High-transmission tempered glass with anti-reflective coating
Environmental Rating	Outdoor rated
Frame	Class 1 black anodized (highest AAMA rating)
Weight	46.5 lbs (21.1 kg)
Recommended Max. Module Spacing	1.3 in. (33 mm)

1 SunPower 415 W, 22.3% efficient, compared to a Conventional Panel on same-sized arrays (260 W, 16% 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).
 2 Based on search of datasheet values from websites of top 10 manufacturers per IHS, as of January 2019.
 3 #1 rank in "Fraunhofer PV Durability Initiative for Solar Modules: Part 3." PV Tech 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.
 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.
 7 Please read the safety and installation instructions for more information regarding load ratings and mounting configurations.

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.
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Warranties, Certifications, and Compliance	
Warranties	<ul style="list-style-type: none"> • 25-year limited power warranty • 25-year limited product warranty
Certifications and Compliance	<ul style="list-style-type: none"> • 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 <p>Enables installation in accordance with:</p> <ul style="list-style-type: none"> • 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) <p>When used with InvisiMount racking and InvisiMount accessories (UL 2703):</p> <ul style="list-style-type: none"> • Module grounding and bonding through InvisiMount • Class A fire rated <p>When used with AC module Q Cables and accessories (UL 6703 and UL 2238)⁶:</p> <ul style="list-style-type: none"> • Rated for load break disconnect
PID Test	Potential-induced degradation free



534092 RevB