Contract #230421

OCALA ELECTRIC UTILITY
OCALA, FLORIDA

FIRST REVISED SHEET NO. 19.0
CANCELS ORIGINAL SHEET NO. 19.0

APPLICATION FOR INTERCONNECTION OF CUSTOMER-OWNED RENEWABLE GENERATION SYSTEMS

TIER 1 - Ten (10) kW or Less
TIER 2 - Greater than 10 kW and Less Than or Equal to 100 kW
TIER 3 - Greater than 100 kW and Less Than or Equal to Two (2) MW

Note: These customer-owned renewable generation system size limits may be subject to a cumulative enrollment limit on net-metering customers located in the area served by the City of Ocala Electric Utility. Please refer to the Ocala Electric Utility Net-Metering Rate Schedule.

Ocala Electric Utility customers who install customer-owned renewable generation systems (RGS) and desire to interconnect those facilities with the Ocala Electric Utility system are required to complete this application. When the completed application and fees are returned to Ocala Electric Utility, the process of completing the appropriate Tier 1, Tier 2 or Tier 3 Interconnection Agreement can begin. This application and copies of the Interconnection Agreements may be obtained at Ocala Electric Utility, located at 201 SE 3rd Street, Ocala, Florida 34471, or may be requested by email from OEU@ocalafl.org.

1. Customer Information

Name: Patric J. Zona

Mailing Address: 6575 S Magnolia Ave, Ocala, FL 34471, USA

City: Ocala State: FL Zip Code: 34471

Phone Number: 352-355-7681 Alternate Phone Number: _____

Email Address: niftyjewel@aol.com Fax Number: _____

Ocala Electric Utility Customer Account Number: 51928-234373

2. RGS Facility Information

Facility Location: South

Ocala Electric Utility Customer Account Number: _____

RGS Manufacturer: PEIMAR 51928-234373

Manufacturer's Address: _____

_____

Reference or Model Number: Peimar / SF390M (FB)

Serial Number: _____

(Continued on Sheet No.19.1)

Issued by: Michael Poucher, P.E.
Electric Utility Director

Effective: October 1, 2019

3. Facility Rating Information

Gross Power Rating: 9.282 ("Gross power rating" means the total manufacturer's AC nameplate generating capacity of an on-site customer-owned renewable generation system that will be interconnected to and operate in parallel with Ocala Electric Utility's distribution facilities. For inverter-based systems, the AC nameplate generating capacity shall be calculated by multiplying the total installed DC nameplate generating capacity by 0.85 in order to account for losses during the conversion from DC to AC.)

Fuel or Energy Source: _____

Anticipated In- Service Date: 03/24/2023

4. Application Fee

The application fee is based on the Gross Power Rating and must be submitted with this application. The non-refundable application fee is $375 for Tier 2 and $750 for Tier 3 installations. There is no application fee for Tier 1 installations.

5. Interconnection Study Fee

For Tier 3 installations, a deposit in the amount of the estimated costs of the study (to be determined at time of application) must be paid along with this application in addition to the application fee referenced in Article 4 above. This deposit will be applied toward the cost of an interconnection study. The customer will be responsible for the actual costs of the study. Should the actual cost of the study be less than the deposit, the difference will be refunded to the customer. Customer agrees to comply with all interconnection requirements identified in the interconnection study report.

6. Required Documentation

Prior to completion of the Interconnection Agreement, the following information must be provided to the Ocala Electric Utility by the customer.

A. Documentation demonstrating that the installation complies with (or most current version at time of inspection approval):

1. IEEE 1547 (2018) Standard for Interconnecting Distributed Resources with Electric Power Systems.
2. IEEE 1547.1 (2005) Standard Conformance Test Procedures for Equipment Interconnecting Distributed Resources with Electric Power Systems.
3. UL 1741 (2010) Inverters, Converters, Controllers and Interconnection System Equipment for Use with Distributed Energy Resources.

(Continued on Sheet No. 19.2)

B. Documentation that the customer-owned renewable generation has been inspected and approved by local code officials prior to its operation in parallel with the Ocala Electric Utility system to ensure compliance with applicable local codes. OEU will also require proof of commission testing by a qualified 3rd party testing company (not affiliated in any way with the manufacturer, vendor or installation contractor), for compliance with all required and applicable codes, standards, and interconnection study requirements, prior to setting of OEU metering equipment.

C. Proof of insurance in the amount of:
Tier 1 - $100,000.00
Tier 2 - $1,000,000.00
Tier 3 - $2,000,000.00

Customer

By: PATRIC J. ZONA Date: 03/24/2023
(Print Name)

Patric Zona
(Signature)

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Tier 1 – Standard Interconnection Agreement
Customer-Owned Renewable Generation System

This **Agreement** is made and entered into this 24 day of March, 2023, by and between Patric J. Zona, (hereinafter called "**Customer**"), located at 6575 S Magnolia Ave in Ocala, Florida, and the City of Ocala doing business as Ocala Electric Utility (hereinafter called OEU), a body politic. Customer and OEU shall collectively be called the "**Parties**". The physical location/premise where the interconnection is taking place: 6575 S Magnolia Ave, Ocala, FL 34471.

WITNESSETH

Whereas, a Tier 1 Renewable Generation System (RGS) is an electric generating system that uses one or more of the following fuels or energy sources: hydrogen, biomass, solar energy, geothermal energy, wind energy, ocean energy, waste heat, or hydroelectric power as defined in Section 377.803, Florida Statutes, rated at no more than ten (10) kilowatts (10 kW) alternating current (AC) power output and is primarily intended to offset part or all of the Customer's current electric requirements; and

Whereas, OEU operates an electric system serving the City of Ocala; and

Whereas, Customer has made a written Application to OEU, a copy being attached hereto, to interconnect its RGS with OEU' electrical supply grid at the location identified above; and

Whereas, the City of Ocala and the Florida Municipal Power Agency (hereinafter called "FMPA") have entered into the All-Requirements Power Supply Contract pursuant to which the City of Ocala has agreed to purchase and receive, and FMPA has agreed to sell and supply OEU with all energy and capacity necessary to operate the OEU electric system, which limits OEU' ability to directly purchase excess energy from customer-owned renewable generation; and

Whereas, in order to promote the development of small customer-owned renewable generation by permitting OEU to allow its customers to interconnect with OEU's electric system and to allow OEU customers to offset their electric consumption with customer-owned renewable generation, FMPA, in accordance with the terms and conditions of this agreement, has agreed to purchase excess customer-owned generation from OEU customers interconnected to OEU's electric system; and

Whereas, the OEU desires to provide interconnection of a RGS under conditions which will insure the safety of OEU customers and employees, reliability and integrity of its distribution system;

NOW, THEREFORE, for and in consideration of the mutual covenants and agreements herein set forth, the parties hereto covenant and agree as follows:

(Continued on Sheet No. 21.1)

1. The Customer shall be required to enter into a Tri-Party Net-Metering Purchase Power Agreement with FMPA and the City of Ocala Electric Utility (OEU).

2. "Gross power rating" (GPR) means the total manufacturer's AC nameplate generating capacity of an on-site customer-owned renewable generation system that will be interconnected to and operate in parallel with OEU's distribution facilities. For inverter-based systems, the GPR shall be calculated by multiplying the total installed DC nameplate generating capacity by 0.85 in order to account for losses during the conversion from DC to AC.

3. This agreement is strictly limited to cover a Tier 1 RGS as defined above. It is the Customer's responsibility to notify OEU of any change to the GPR of the RGS by submitting a new application for interconnection specifying the modifications at least 30 days prior to making the modifications. Increase in GPR above the ten kilowatt (10 kW) limit would necessitate entering into a new agreement at either Tier 2 or Tier 3 which may impose additional requirements on the Customer. In no case does the Tier 1, Tier 2 or Tier 3 agreement cover increases in GPR above two megawatts (2MW).

4. The RGS GPR must not exceed 90 percent (90%) of the Customer's OEU calculated distribution service rating at the Customer's location (including shared electric facilities). If the GPR does exceed the 90 percent (90%) limit, the Customer shall be responsible to pay the cost of upgrades to the distribution facilities required to accommodate the GPR capacity and ensure the 90 percent (90%) threshold is not breached. OEU will not allow a RGS GPR greater than required to offset the customer's annual kWh energy consumption (based on customer's historical consumption data or by means of estimated usage of similar type of service as determined by OEU).

5. The Customer shall not be required to pay any special fees due solely to the installation of the RGS.

6. The Customer shall fully comply with OEU's Design Standards following NEC standards as those documents may be amended or revised by OUS from time to time.

7. The Customer certifies that its installation, its operation and its maintenance shall be in compliance with the following standards (or most current version at time of inspection approval):

a. IEEE-1547 (2018) Standard for Interconnecting Distributed Resources with Electric Power System;
b. IEEE-1547.1 (2005) Standard Conformance Test Procedures for Equipment Interconnection Distributed Resources with Electric Power Systems;
c. UL-1741 (2010) Inverters, Converters, Controllers and Interconnection System Equipment for Use with Distributed *Energy Resources.*
d. The National Electric Code, state and/or local building codes, mechanical codes and/or electrical codes;
e. The manufacturer's installation, operation and maintenance instructions.

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8. The Customer is not precluded from contracting for the lease, operation or maintenance of the RGS with a third party. Such lease may not provide terms or conditions that provide for any payments under the agreement to any way indicate or reflect the purchase of energy produced by the RGS. Customer shall not enter into any lease agreement that results in the retail purchase of electricity; or the retail sale of electricity from the customer-owned renewable generation. Notwithstanding this restriction, in the event that Customer is determined to have engaged in the retail purchase of electricity from a party other than OEU, then Customer shall be in breach of this Agreement and may be subject to the jurisdiction of the Florida Public Service Commission and to fines/penalties.

9. The Customer shall provide a copy of the manufacturer's installation, operation and maintenance instructions to OEU. If the RGS is leased to the Customer by a third party, or if the operation or maintenance of the RGS is to be performed by a third party, the lease and/or maintenance agreements and any pertinent documents related to these agreements shall be provided to OEU.

10. Prior to commencing parallel operation with OEU's electric system, Customer shall have the RGS inspected and approved by the appropriate code authorities having jurisdiction. Customer shall provide a copy of this inspection and approval to OEU.

11. The Customer agrees to permit OEU, if it should so choose, to inspect the RGS and its component equipment and the documents necessary to ensure compliance with this Agreement both before and after the RGS goes into service and to witness the initial testing of the RGS equipment and protective apparatus. OEU will provide Customer with as much notice as reasonably possible, either in writing, email, facsimile or by phone as to when OEU may conduct inspections and or document review. Upon reasonable notice, or at any time without notice in the event of an emergency or hazardous condition, Customer agrees to provide OEU access to the Customer's premises for any purpose in connection with the performance of the obligations required by this Agreement or, if necessary, to meet OEU's legal obligation to provide service to its customers. At least ten (10) business days prior to initially placing the customer-owned renewable generation system in service, Customer shall provide written notification to OEU advising of the date and time at which Customer intends to place the system in service, and OEU shall have the right to have personnel present on the in-service date in order to ensure compliance with the requirements of this Agreement.

(Continued on Sheet No. 21.3)

12. The Customer's RGS must have an appropriately sized grid-tie inverter system that includes applicable protective systems. Customer certifies that the RGS equipment includes an OEU interactive inverter or interconnection system equipment that ceases to interconnect with the OEU system upon a loss of OEU's electric power. The inverter shall be considered certified for interconnected operation if it has been submitted by a manufacturer to a nationally recognized testing laboratory (NRTL) to comply with UL 1741. The NRTL shall be approved by the Occupational Safety & Health Administration (OSHA).

13. If Customer adds another RGS that (i) utilizes the same OEU interactive inverter for both systems, or (ii) utilizes a separate OEU interactive inverter for each system, Customer shall provide OEU with sixty (60) days advance written notice of the addition.

14. The Customer shall not energize the OEU system when OEU's system is deenergized. The Customer shall cease to energize the OEU system during a faulted condition on the OEU system and/or upon any notice from OEU that the deenergizing of Customer's RGS equipment is necessary. The Customer shall cease to energize the OEU system prior to automatic or non-automatic reclosing of OEU's protective devices. There shall be no intentional islanding, as described in IEEE 1547, between the Customer's and OEU' systems.

15. The Customer is responsible for the protection of its generation equipment, inverters, protection devices, and other system components from damage from the normal and abnormal operations that occur on OEU system in delivering and restoring system power. Customer agrees that any damage to any of its property, including, without limitation, all components and related accessories of its RGS system, due to the normal or abnormal operation of OEU system, is at Customer's sole risk and expense. Customer is also responsible for ensuring that the customer-owned renewable generation equipment is inspected, maintained, and tested regularly in accordance with the manufacturer's instructions to ensure that it is operating correctly and safely.

16. The Customer must install, at their expense, a manual disconnect switch of the visible load break type to provide a separation point between the AC power output of the customer-owned renewable generation system and any Customer wiring connected to OEU's system, such that back feed from the customer-owned renewable generation system to OEU's system cannot occur when the switch is in the open position. The manual disconnect switch shall be mounted separate from the meter socket on an exterior surface adjacent to the meter. The switch shall be readily accessible to OEU and capable of being locked in the open position with an OEU padlock. When locked and tagged in the open position by OEU, this switch will be under the control of OEU.

(Continued on Sheet No. 21.4)

17. Subject to an approved inspection, including installation of acceptable disconnect switch, this Agreement shall be executed by OEU within thirty (30) calendar days of receipt of a completed application. Customer must execute this Agreement and return it to OEU at least thirty (30) calendar days prior to beginning parallel operations with OEU's electric system, subject to the requirements of Section 18, below, and within one (1) year after OEU executes this Agreement.

18. Once OEU has received Customer's written documentation that the requirements of this Agreement have been met, all agreements and documentation have been received and the correct operation of the manual switch has been demonstrated to an OEU representative, OEU will, within fifteen (15) business days, send written notice that parallel operation of the RGS may commence.

19. OEU requires the Customer to maintain general liability insurance for personal injury and property damage in the amount of not less than one hundred thousand dollars ($100,000.00).

20. OEU will furnish, install, own and maintain metering equipment capable of measuring the flow of kilowatt-hours (kWh) of energy. The Customer's service associated with the RGS will be metered to measure the energy delivered by OEU to Customer, and measure the energy delivered by Customer to OEU. Customer agrees to provide safe and reasonable access to the premises for installation, maintenance and reading of the metering and related equipment. The Customer shall not be responsible for the cost of the installation and maintenance of the metering equipment necessary to measure the energy delivered by the Customer to OEU.

21. The Customer shall be solely responsible for all legal and financial obligations arising from the design, construction, installation, operation, maintenance and ownership of the RGS.

22. The Customer must obtain all permits, inspections and approvals required by applicable jurisdictions with respect to the generating system and must use a licensed, bonded and insured contractor to design and install the generating system. The Customer agrees to provide OEU with a copy of the local building code official inspection and certification of installation. The certification shall reflect that the local code official has inspected and certified that the installation was permitted, has been approved, and has met all electrical and mechanical qualifications.

(Continued on Sheet No. 21.5)

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23. In no event shall any statement, representation, or lack thereof, either express or implied, by OEU, relieve the Customer of exclusive responsibility for the Customer's system. Specifically, any OEU inspection of the RGS shall not be construed as confirming or endorsing the system design or its operating or maintenance procedures or as a warranty or guarantee as to the safety, reliability, or durability of the RGS. OEU's inspection, acceptance, or its failure to inspect shall not be deemed an endorsement of any RGS equipment or procedure. Further, as set forth in Sections 15 and 26 of this Agreement, Customer shall remain solely responsible for any and all losses, claims, damages and/or expenses related in any way to the operation or misoperation of its RGS equipment.

24. Notwithstanding any other provision of this Interconnection Agreement, OEU, at its sole and absolute discretion, may isolate the Customer's system from the distribution grid by whatever means necessary, without prior notice to the Customer. To the extent practical, however, prior notice shall be given. The system will be reconnected as soon as practical once the conditions causing the disconnection cease to exist. OEU shall have no obligation to compensate the Customer for any loss of energy during any and all periods when Customer's RGS is operating at reduced capacity or is disconnected from OEU' electrical distribution system pursuant to this Interconnection Agreement. Typical conditions which may require the disconnection of the Customer's system include, but are not limited to, the following:

a. OEU system emergencies, forced outages, uncontrollable forces or compliance with prudent electric OEU practice.
b. When necessary to investigate, inspect, construct, install, maintain, repair, replace or remove any OEU equipment, any part of OEU's electrical distribution system or Customer's generating system.
c. Hazardous conditions existing on OEU's system due to the operation of the Customer's generation or protective equipment as determined by OEU.
d. Adverse electrical affects (such as power quality problems) on the electrical equipment of OEU's other electric consumers caused by the Customer's generation as determined by OEU.
e. When Customer is in breach of any of its obligations under this Interconnection Agreement or any other applicable policies and procedures of OEU.
f. When the Customer fails to make any payments due to OEU by the due date thereof.

25. Upon termination of services pursuant to this Agreement, OEU shall open and padlock the manual disconnect switch and remove any additional metering equipment related to this Agreement. At the Customer's expense, within thirty (30) working days following the termination, the Customer shall permanently isolate the RGS and any associated equipment from OEU's electric supply system, notify OEU that the isolation is complete, and coordinate with OEU for return of OEU's lock.

(Continued to Sheet No. 21.6)

26. To the fullest extent permitted by law, and in return for adequate, separate consideration, Customer shall indemnify, defend and hold harmless OEU, any and all of their members of its governing bodies, and its officers, agents, and employees for, from and against any and all claims, demands, suits, costs of defense, attorneys fees, witness fees of any type, losses, damages, expenses, and liabilities, whether direct, indirect or consequential, related to, arising from, or in any way connected with:

a. Customer's design, construction, installation, inspection, maintenance, testing or operation of Customer's generating system or equipment used in connection with this Interconnection Agreement, irrespective of any fault on the part of OEU.
b. The interconnection of Customer's generating system with, and delivery of energy from the generating system to, OEU's electrical distribution system, irrespective of any fault on the part of OEU.
c. The performance or nonperformance of Customer's obligations under this Interconnection Agreement or the obligations of any and all of the members of Customer's governing bodies and its officers, agents, contractors (and any subcontractor or material supplier thereof) and employees.

Customer's obligations under this Section shall survive the termination of this Interconnection Agreement.

27. Customer shall not have the right to assign its benefits or obligations under this Agreement without OEU's prior written consent and such consent shall not be unreasonably withheld. If there is a change in ownership of the RGS, Customer shall provide written notice to OEU at least thirty (30) days prior to the change in ownership. The new owner will be required to assume, in writing, the Customer's rights and duties under this Agreement, or execute a new Standard Interconnection Agreement. The new owner shall not be permitted to net meter or begin parallel operations until the new owner assumes this Agreement or executes a new Agreement.

28. This Agreement supersedes all previous agreements and representations either written or verbal heretofore made between OEU and Customer with respect to matters herein contained. This Agreement, when duly executed, constitutes the only Agreement between parties hereto relative to the matters herein described. This Agreement shall continue in effect from year to year until either party gives sixty (60) days' notice of its intent to terminate this Agreement.

(Continued on Sheet No. 21.7)

29. This Agreement shall be governed by and construed and enforced in accordance with the laws, rules and regulations of the State of Florida and OEU's tariff as it may be modified, changed, or amended from time to time, including any amendments modification or changes to OEU's Net-Metering Service Rate Schedule, the schedule applicable to this Agreement. The Customer and OEU agree that any action, suit, or proceeding arising out of or relating to this Interconnection Agreement shall be initiated and prosecuted in the state court of competent jurisdiction located in Marion County, Florida, and OEU and the Customer irrevocably submit to the jurisdiction and venue of such court. To the fullest extent permitted by law, each Party hereby irrevocably waives any and all rights to a trial by jury and covenants and agrees that it will not request a trial by jury with respect to any legal proceeding arising out of or relating to this Interconnection Agreement.

None of the provisions of this Interconnection Agreement shall be considered waived by either Party except when such waiver is given in writing. No waiver by either Party of any one or more defaults in the performance of the provisions of this Interconnection Agreement shall operate or be construed as a waiver of any other existing or future default or defaults. If any one or more of the provisions of this Interconnection Agreement or the applicability of any provision to a specific situation is held invalid or unenforceable, the provision shall be modified to the minimum extent necessary to make it or its application valid and enforceable, and the validity and enforceability of all other provisions of this Interconnection Agreement and all other applications of such provisions shall not be affected by any such invalidity or unenforceability. This Interconnection Agreement does not govern the terms and conditions for the delivery of power and energy to non-generating retail customers of OEU's electrical distribution system.

30. This Agreement incorporates by reference the terms of the tariff filed with the Florida Public Service Commission by OEU, including OEU's Net-Metering Service Rate Schedule, and associated technical terms and abbreviations, general rules and regulations and standard electric service requirements (as may be applicable) are incorporated by reference, as amended from time to time. To the extent of any conflict between this Agreement and such tariff, the tariff shall control.

31. OEU and Customer recognize that the Florida Statutes and/or the Florida Public Service Commission Rules, including those directly addressing the subject of this Agreement, may be amended from time to time. In the event that such statutes and/or rules are amended that affect the terms and conditions of this Agreement, OEU and Customer agree to supersede and replace this Agreement with a new Interconnection Agreement, which complies with the amended statutes/rules.

(Continued on Sheet No. 21.8)

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32. Customer acknowledges that its provision of electricity to OEU hereunder is on a first-offered, first-accepted basis and subject to diminution and/or rejection in the event the total amount of electricity delivered to OEU pursuant to the OEU's Net-Metering Service Rate Schedule, (as filed with the Florida Public Service Commission), from all participating OEU customers, exceeds two and one-half percent (2.5%) of the aggregate customer peak demand on the OEU system.

33. This Agreement is solely for the benefit of OEU and Customer and no right nor any cause of action shall accrue upon or by reason, to or for the benefit of any third party not a formal party to this Agreement. Nothing in this Agreement, expressed or implied, is intended or shall be construed to confer upon any person or corporation other than OEU or Customer, any right, remedy, or claim under or by reason of this Agreement or any of the provisions or conditions of this Agreement; and, all provisions, representations, covenants, and conditions contained in this Agreement shall inure to the sole benefit of and be binding upon OEU and Customer and their respective representatives, successors, and assigns. Further, no term or condition contained in this Agreement shall be construed in any way as a waiver by OEU of the sovereign immunity applicable to OEU as established by Florida Statutes, 768.28.

(Continued on Sheet No. 21.9)

IN WITNESS WHEREOF, Customer and OEU have executed this Agreement the day and year first above written.

City of Ocala Electric Utility:

By: DocuSigned by: Janice Mitchell 55198B43858A4E1...

Title: CFO

Date: 4/21/2023

Customer:

By: Patric J. Zona
(Print Name)

(Signature)

Date: 4/21/2023

City of Ocala Electric Utility Account Number:

519258-234373

Approved as to form and legality:

DocuSigned by: William E. Sexton B07DCFC4E86E429...

William E. Sexton
Assistant City Attorney

Tri-Party Net-Metering Power Purchase Agreement

This Tri-Party Net-Metering Power Purchase Agreement (this "Agreement") is entered into this 24 day of March, 2023, by and between the Florida Municipal Power Agency, a governmental joint action agency created and existing under the laws of the State of Florida (hereinafter "FMPA"), the City of Ocala doing business as Ocala Electric Utility, a body politic (hereinafter "OEU"), and Patric J. Zona, a retail electric customer of OEU (hereinafter "Customer").

Section 1. Recitals

1.01. OEU and Customer have executed OEU's Standard Interconnection Agreement for a Customer-Owned Renewable Generation System (RGS) pursuant to which OEU has agreed to permit interconnection of Customer's renewable generation to OEU's electric system at Customer's presently-metered location, and Customer has agreed to deliver excess electric energy generated by Customer's Renewable Generation System to OEU's electric distribution system;

1.02. The City of Ocala and FMPA have entered into the All-Requirements Power Supply Contract, dated as of May 1, 1986, (hereinafter the "ARP Contract") pursuant to which the City of Ocala has agreed to purchase and receive, and FMPA has agreed to sell and supply OEU with all energy and capacity necessary to operate the OEU electric system, which limits OEU's ability to directly purchase excess energy from customer-owned renewable generation.

1.03. In order to promote the development of small customer-owned renewable generation by permitting OEU to allow its customers to interconnect with OEU's electric system and to allow OEU's electric customers to offset their electric consumption with customer-owned renewable generation, FMPA, in accordance with the terms and conditions of this agreement, has agreed to purchase excess customer-owned generation from OEU's electric customers interconnected to OEU's electric system.

NOW THEREFORE, for and in consideration of the mutual covenants and agreements set forth herein, the Parties covenant and agree as follows:

Section 2. Interconnection

2.01. Customer shall not begin parallel operations with the OEU electric distribution system until Customer has executed OEU's electric Standard Interconnection Agreement for Small Customer-Owned Renewable Generation and is in compliance with all terms and conditions

OEU requires that the customer install and operate the RGS in accordance with all applicable safety codes and standards. OEU shall establish and enforce terms and conditions of operation and disconnection of all interconnected customer-owned renewable generation as it relates to the effect of the RGS on OEU's electric distribution system.

(Continued on Sheet No. 20.1)

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Section 3. Metering

3.01 In accordance with the OEU's Standard Interconnection Agreement for Customer-Owned Renewable Generation, OEU shall install metering equipment at the point of delivery capable of recording two separate kWh meter readings: (1) the flow of electricity from OEU to the Customer (Delivered), and (2) the flow of excess electricity from the Customer to OEU. OEU shall take meter readings on the same cycle as the otherwise applicable rate schedule.

Section 4. Purchase of Excess Customer-Owned Renewable Generation

4.01. Customer-owned renewable generation shall be first used for Customer's own load and shall offset Customer's demand for OEU's electricity. All electric power and energy delivered by OEU to Customer shall be received and paid for by Customer to OEU (Received) pursuant to the terms, conditions and rates of the OEU otherwise applicable rate schedule.

4.02. Excess customer-owned renewable generation shall be delivered to the OEU Electric distribution system. For purposes of this Agreement, the term "excess customer-owned renewable generation" means any kWh of electrical energy produced by the customer-owned renewable generation system that is not consumed by Customer and is delivered to the OEU electric distribution system. FMPA agrees to purchase and receive, and Customer agrees to sell and deliver, all excess customer-owned renewable generation at the energy rate established by FMPA, which shall be calculated in accordance with Schedule A. Excess customer-owned renewable generation shall be purchased in the form of a credit on Customer's monthly energy consumption bill from OEU.

4.03. In the event that a given monthly credit for excess customer-owned renewable generation exceeds the total billed amount for Customer's consumption in any corresponding month, then the excess credit shall be applied to the subsequent month's bill. Excess energy credits produced pursuant to the preceding sentence shall accumulate and be used to offset Customer's energy consumption bill for a period of not more than twelve (12) months. At the end of each calendar year, any unused excess energy credits shall be paid by OEU to the Customer in accordance with the OEU Electric Net-Metering Service Rate Schedule.

(Continued on Sheet No. 20.2)

4.04. FMPA and OEU shall not be required to purchase or receive excess customer-owned renewable generation, and may require Customer to interrupt or reduce production of customer-owned renewable generation, (a) when necessary in order to construct, install, maintain, repair, replace, remove, investigate, or inspect any OEU equipment or part of OEU's system; or (b) if either FMPA or OEU determine, in their sole judgment, that curtailment, interruption, or reduction is necessary because of emergencies, forced outages, force majeure, or compliance with any applicable electric code or standard.

4.05. Customer acknowledges that its provision of electricity to OEU hereunder is on a first-offered, first-accepted basis and subject to diminution and/or rejection in the event the total amount of electricity delivered to OEU pursuant to the Net-Metering Service Rate Schedule (as filed with the Florida Public Service Commission), from all participating OEU customers, exceeds two and one-half percent (2.5%) of the aggregate customer peak demand on the OEU electric system.

Section 5. Renewable Energy Credits

5.01. Customer shall offer FMPA a first right of refusal before selling or granting to any third party the right to the Green Attributes associated with its customer-owned renewable generation that is interconnected to OEU electric distribution system. The term "Green Attributes" shall include any and all credits, certificates, benefits, environmental attributes, emissions reductions, offsets, and allowances, however entitled, attributable to the generation of electricity from the customer-owned-renewable generation and its displacement of conventional energy generation.

5.02. Any additional meter(s) installed to measure total renewable electricity generated by the Customer for the purposes of measuring Green Attributes, including and renewable energy certificates (or similarly titled credits for renewable energy generated), shall be installed at the expense of the Customer, unless determined otherwise during negotiations for the sale of the Customer's credits to FMPA.

Section 6. Term and Termination

6.01. This Agreement shall become effective upon execution by all Parties, and shall remain in effect thereafter on a month-to-month basis until terminated by any Party upon thirty (30) days written notice to all other Parties.

6.02. This Agreement shall terminate immediately and without notice upon: (a) termination of the electric distribution service by OEU or (b) failure by Customer to comply with any of the terms and conditions of this Agreement or OEU's Standard Interconnection Agreement for Customer-Owned Renewable Generation.

(Continued on Sheet No. 20.3)

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Section 7. Miscellaneous Provisions

7.01. Assignment. It is understood and agreed that no party may transfer, sell, mortgage, pledge, hypothecate, convey, designate, or otherwise assign this Agreement, or any interest herein or any rights or obligations hereunder, in whole or in part, either voluntarily or by operation of law, (including, without limitation, by merger, consolidation, or otherwise), without the express written consent of the other parties (and any such attempt shall be void), which consent shall not be unreasonably withheld. Subject to the foregoing, this Agreement shall inure to the benefit of and be binding upon the parties and their respective successors and permitted assigns.

7.02 Amendment. It is understood and agreed that FMPA and OEU reserve the right, on no less than an annual basis, to change any of the terms and conditions, including pricing, in this Agreement on sixty (60) days advance written notice. FMPA and OEU may make such changes on an immediate basis in the event any applicable law, rule, regulation or court order requires them. In such event, FMPA and OEU will give Customer as much notice as reasonably possible under the circumstances.

7.03. Indemnification. To the fullest extent permitted by laws and regulations, and in return for adequate, separate consideration, Customer shall defend, indemnify, and hold harmless FMPA and OEU, their officers, directors, agents, guests, invitees, and employees from and against all claims, damages, losses to persons or property, whether direct, indirect, or consequential (including but not limited to fees and charges of attorneys, and other professionals and court and arbitration costs) arising out of, resulting from, occasioned by, or otherwise caused by the operation or misoperation of the customer-owned renewable generation, or the acts or omissions of any other person or organization directly or indirectly employed by the Customer to install, furnish, repair, replace or maintain the customer-owned renewable generation system, or anyone for whose acts any of them may be liable.

7.04. Governing Law. The validity and interpretation of this Agreement and the rights and obligations of the parties shall be governed and construed in accordance with the laws of the State of Florida without regard for any conflicts of law provisions that might cause the law of other jurisdictions to apply. All controversies, claims, or disputes arising out of or related to this Agreement or any agreement, instrument, or document contemplated hereby, shall be brought exclusively in the County or Circuit Court for Marion County, Florida, or the United States District Court sitting in Marion County, Florida, as appropriate.

(Continued on Sheet No. 20.4)

7.05. Enforcement of Agreement. In the event that either party is required to enforce this Agreement by court proceedings or otherwise, the prevailing party shall be entitled to recover all fees and costs incurred, including reasonable attorney's fees and costs for trial, alternative dispute resolution, and/or appellate proceedings.

7.06. Severability. To the extent any provision of this Agreement is prohibited by or invalid under applicable law, such provision shall be ineffective to the extent of such prohibition or invalidity, without invalidating the remainder of such provision or the remaining provisions of this Agreement.

7.07. Third Party Beneficiaries and Sovereign Immunity. This Agreement is solely for the benefit of FMPA, OEU, and Customer and no right nor shall any cause of action accrue upon or by reason, to or for the benefit of any third party not a formal party to this Agreement. Nothing in this Agreement, expressed or implied, is intended or shall be construed to confer upon any person or corporation other than FMPA, OEU, or Customer, any right, remedy, or claim under or by reason of this Agreement or any of the provisions or conditions of this Agreement; and, all provisions, representations, covenants, and conditions contained in this Agreement shall inure to the sole benefit of and be binding upon FMPA, OEU, and Customer and their respective representatives, successors, and assigns. Further, no term or condition contained in this Agreement shall be construed in any way as a waiver by either FMPA or OEU of the sovereign immunity applicable to either or both of them as established by Florida Statutes, 768.28.

(Continued on Sheet No. 20.5)

IN WITNESS WHEREOF, Customer and OEU have executed this Agreement the day and year first above written.

City of Ocala Electric Utility

By: DocuSigned by: Janice Mitchell 55198B4385BA4E1...

Title: CFO

Date: 4/21/2023

Florida Municipal Power Agency

By: DocuSigned by: 087F58EBB34B474...

Title: VP of IT/OT and System Ops

Date: 4/21/2023

Customer

By: Patric J. Zona Date: 03/24/2023

(Print Name)

Patric Zona

(Signature)

Customer's City of Ocala Electric Utility Account Number: 519258-234373

Approved as to form and legality:

DocuSigned by: William E. Sexton B07DCFC4E88E429...

William E. Sexton
City Attorney

(Continued on Sheet No. 20.6)

RV

Tri-Party Net-Metering Power Purchase Agreement
Schedule A

I. All-Requirements Project Calculation of Excess Customer-Owned Renewable Generation Credit

a) FMPA shall pay OEU for the excess kWh energy delivered by customer-owned renewable generation to OEU's electric system. Every month, OEU shall determine the total kWh of customer-owned renewable generation that is delivered to OEU's electric system, and shall send the information to FMPA as soon as it becomes available, but no later than the second working day of every month. FMPA will then provide a monthly payment to OEU in the form of a credit on the ARP power bill for the excess energy delivered to the distribution grid. The ARP Renewable Generation Credit will be calculated as follows:

ARP Renewable Generation Credit = Quarterly Energy Rate * Monthly kWh of excess customer-owned renewable generation

Quarterly Energy Rate = 3 month average of ARP energy rate. FMPA will update the Quarterly Energy Rate every April 1, July 1, October 1 and January 1.

b) As part of the monthly bill adjustment, FMPA will also increase OEU's kWh billing amount by the same kWh amount as the customer-owned renewable generation purchased by FMPA. This adjustment is necessary because excess customer generation that flows onto OEU's electric system has been purchased by FMPA, but will remain on OEU's electric system and be used by OEU to meet its other customers' electric needs. As a result, OEU's monthly ARP bill will be adjusted accordingly to reflect FMPA's subsequent sale of this energy to OEU.

II. Payment for Unused Excess Energy Credits

a) Monthly excess energy credits shall accumulate and be used to offset the Customer's following month energy consumption bill for a period of not more than twelve (12) months.

b) At the end of each calendar year, OEU shall pay the Customer for any unused excess energy credits in accordance with the OEU Electric Net-Metering Service Rate Schedule.

RV

Tower Hill Insurance Exchange

P.O. Box 147018 Gainesville, FL 32614-7018

HOMEOWNERS DECLARATIONS

THIS IS NOT A BILL

POLICY NUMBER
W015528863
New
Issued On:
12/20/2022

Payment notice will be sent separately to: The Insured

Insured
Patric Zona Jr
6573 S MAGNOLIA AVE
OCALA, FL 34471

AGENCY **FL8330**
Nsure.com
6501 CONGRESS AVENUE #300
BOCA RATON, FL 33487

PHONE NUMBER: (561) 288-9700

POLICY PERIOD: 12/20/2022 to 12/20/2023. Each period begins and ends at 12:01 AM standard time at the insured location.

INSURED LOCATION: Same as address shown under Insured.

Coverage is provided where a premium or limit is shown for t he coverage.

SECTION I - PROPERTY COVERAGE	LIMIT	SECTION II - LIABILITY COVERAGE	LIMIT
COVERAGE A - Dwelling	$516,000	COVERAGE E - Personal Liability Each Occurrence	$300,000
COVERAGE B - Other Structures	$10,320		
COVERAGE C - Personal Property	$129,000	COVERAGE F - Medical Payments to Others Each Person	$1,000
COVERAGE D - Loss of Use	$51,600		

BREAKDOWN OF PREMIUM:

Charges	Limit	Premium
Section I and II Premium		$1,293.00
Age of Dwelling Surcharge		Incl
Catastrophic Ground Cover Collapse Coverage		Incl
Limited Fungi, Wet or Dry Rot, or Bacteria Coverage	$10,000/$10,000	Incl
Loss Assessment Coverage	$1,000	Incl
Ordinance or Law Coverage	25%	$144.00
Emergency Management Preparedness and Assistance Trust Fund (EMPAT) Fee		$2.00
Florida Insurance Guaranty Association (FIGA) Assessment Fee 07-2022		$18.68
Florida Insurance Guaranty Association (FIGA) Assessment Fee 2022		$10.06
Managing General Agency (MGA) Fee		$25.00
Surplus Contribution		$143.70

Credits	Premium
Age of Insured Credit	Incl
Age of Roof Credit	Incl
All Other Perils Deductible Credit	Incl
Building Code Effectiveness Grading Schedule (BCEGS) Credit	Incl
Hurricane Deductible Credit	Incl
Personal Property - Decreased Limit	Incl
Residential Windstorm Loss Mitigation Devices Credit	Incl
Sinkhole Exclusion	Incl

Total Policy Premium: **$1,636.44**

Menu

Inspection Detail

108 FINAL STRUCTURAL

Priority	0
Inspection Code	108
Description	108 FINAL STRUCTURAL
Request Date	3/22/2023
Scheduled Inspector	HAMBLEN, MICHAEL
Result Date	3/22/2023
Inspection Results	(90) APPROVED
Result Inspector	HAMBLEN, MICHAEL

Denial Codes

CODE	DESCRIPTION

Notes

BACK

1202R

RIGHT ANGLE *ENGINEERING*

STRUCTURAL CERTIFICATION REPORT

Roof-mounted Solar Panels

February 15, 2023

To: Sunlight Solar Florida
7575 Kingspointe PKWY Suite 4
Orlando, FL 32819

Re: Patric Zona
6575 S Magnolia Ave
Ocala, FL 34471

Sunlight Solar Florida proposes to install new roof-mounted solar panels at this residence and asked *Right Angle Engineering* to review the existing structure for suitability. This letter summarizes the methods that were used to survey, evaluate, and certify the existing roof framing and the attachment of the new solar panels to it.

STRUCTURAL DESIGN

Building Code:	Florida Residential Code 2020
Design Standards:	ASCE 7-16
Snow:	Ground: p_g= 0.0 psf | Flat Roof: p_f= 0.0 psf | Sloped Roof: p_s= 0.0 psf
Wind:	Ultimate Wind Speed = 140.0 mph | Exposure = B
Seismic:	Risk Category = 2 | Seismic Design Category = A | Site Class = D

STRUCTURE

Field Technicians from *Sunlight Solar Florida* visited the site and observed the existing structure :

Array Name	Panel Quantity	Roof Framing	Material	Pitch
Array 1	28	2x4 Truss | 24" o.c.	Asphalt Shingles	29°

ANCHORAGE

The solar panel anchorage shall be installed according to the manufacturer's most current installation manual. Anchorage shall be staggered to distribute the load evenly to adjacent roof members. The solar panels should be mounted flush to the roof surface.

Array Name	Connection Type	Fastener	Max Anchorage Spacing
Array 1	NanoMount	5/16" lag screw (2.5" embedment) into roof substructure	32"

Installation Instructions

Solar panels and the equipment shall be installed per the manufacturer's installation specifications. Improper installation will void this certification. Deviations from the approved structural plans (including equipment substitutions) are not allowed without written approval from Right Angle Engineering. Prior to installation, the installer should:

- Confirm that the existing structure matches the information provided in the structural survey, the approved installation plans and this certification.
- Identify discrepancies between this certification and the approved installation plans. If found, then this certification shall govern.
- Identify structural elements that are dangerous (cracked, broken, excessive sag, signs of overstress, rot,decay, fire, water). If found, installation shall cease until those elements are adequately abated and made to comply with the referenced building code.
- Provide fire setbacks and access pathways as required by local ordinances

STRUCTURAL CERTIFICATION

I certify the addition of solar panels on the roof of this structure does not cause the structure to become unsafe or make it generally less compliant with the life-safety requirements of the referenced building code. Based on the evaluation methods described below, for the loads that exist at this site, the existing framing should safely support the new solar panels if they are installed and attached correctly.

Array Name	Certification Method	Retrofits
Array 1	Stress analysis Florida Residential code	None required

Regards,

This item has been electronically signed and sealed by Robert Smythe on the date and/or time stamp shown using a digital signature. Printed copies of this document are not considered signed and sealed and the signature must be verified by a 3rd Party Certificate Authority on any electronic copy FAC 61G15-23.004

Robert Smythe

Digitally signed by Robert Smythe
DN: E=robert@rightangleeng.com, CN=Robert Smythe, OU=Senior Engineering, O=Right Angle Engineering, L=Orem, S=Utah, C=US
Date: 2023.03.01 10:01:18-07'00'

02/15/2023

Robert D. Smythe, P.E.
Right Angle Engineering

Job Details

Roof Snow Load - ASCE 7-16	
Ground Snow Load (p_g) *Section 7.2*	0.0 psf
Exposure Factor (C_e) *Table 7.3-1*	0.9
Thermal Factor (C_t) *Table 7.3-2*	1.1
Importance Factor (I_s) *Table 1.5-2*	1
Flat Roof Snow Load (p_f) *Equation 7.3-1*	0.0 psf
Slippery Surface Slope Factor (C_s) *Figure 7.4-1*	0.68
Non-Slippery Surface Slope Factor (C_s) *Figure 7.4-1*	1
Roof Snow Load *Equation 7.4-1*	0.0 psf
Reduced Snow Load (Slippery Surface) *Equation 7.4-1*	0.0 psf

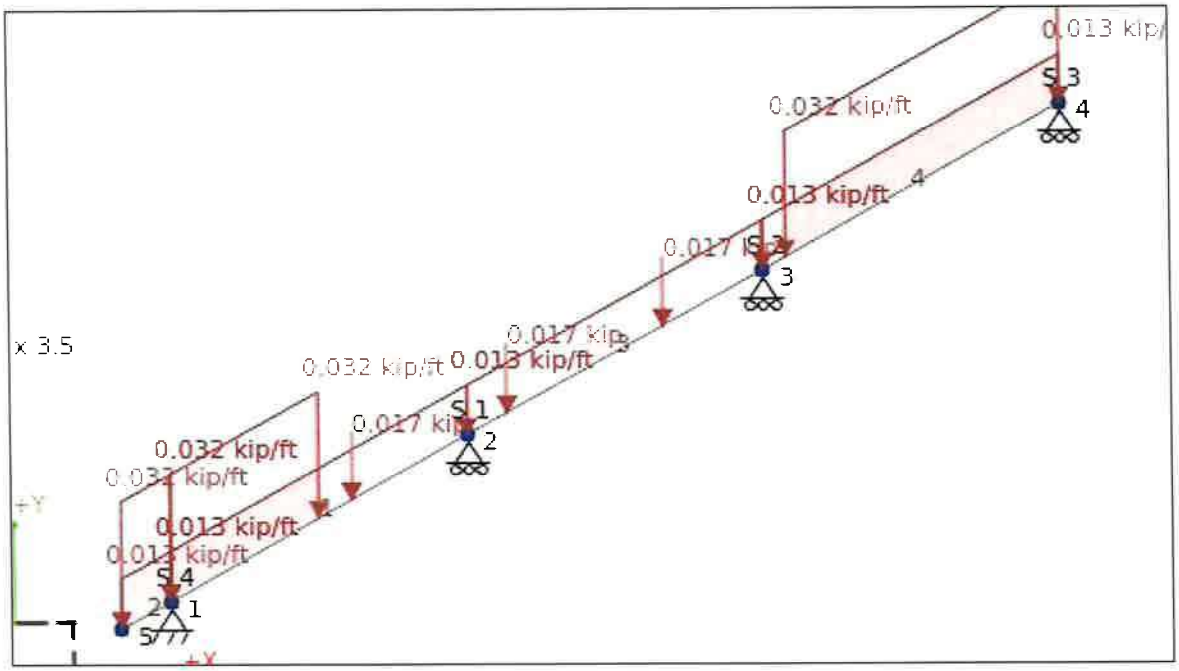
Design Criteria	
Design Wind Speed	140.0mph
Exposure Category	B
Risk Category	2
Mean Roof Height	30 ft
Roof Type	Hip Roof
Building Type	Enclosed

Roof Live Load	
Existing Roof Live Load *ASCE 7-16 Table 4.3-1*	20 psf
Roof Live Load with Solar Panels	0.0 psf

[1]Roof Dead Load			
Asphalt Shingles	2.0 psf	**No Drywall**	0.0 psf
5/8" Plywood Sheathing	2.0 psf	**Solar Panel Array**	2.89 psf
Roof Framing	1.1 psf	**Dead Load Without Panels**	6.3 psf
Insulation	1.2 psf		

[1]Roof Dead Load is taken from the worst case scenario dead load from all arrays of the job in order to provide a more conservative evaluation.

Array 1



Array Details	
Roof Pitch	29°
Panel Quantity	28
Panel Area	492.31 ft²

Beam Stresses			
Beam Span	9.0', 9.0', 9.0'	**Panel Orientation**	Portrait
Spacing	24.0"	**# of Panels on Rafter**	3
Roof Framing Type	2x4 Non Standard *DF No.2*	**Panel Distance From Eave**	72.0"

Wind Calculations - ASCE 7-16	
GC_p Zone 1 *Figure 30.3-(2A-5B)*	-2.3
K_z *Table 26.10-1*	0.62
K_{ht} *Equation 26.8-1*	1
K_d *Table 26.6-1*	0.85
K_e *Table 26.9-1*	1.0
Wind Speed (V_{ult}) *Local Design Criteria*	140.0 mph
Velocity Pressure *Equation 26.10-1*	26.5 psf
Design Pressure *Equation 29.4-7 γ_E=1.5 γ_a=0.4*	-36.57 psf

Roof Attachments: NanoMount 5/16" lag screw	
Shear Capacity *Manufacture testing*	230.0 lbs
Pullout Capacity *Manufacture testing*	148.0 lbs
Lag Screw Embedment	2.5"
Pullout Tributary Area	7.2 ft²
Shear Tributary Area	164.2 ft²
Max Connection Spacing	32"

Design Ratio

Member ID	P	M_z	V_y	C	SR	D	Status
1	0.008	0.436	0.189	0.436	0.035	0.314	Pass
2	0.006	0.095	0.08	0.102	0.035	1.034	Pass
3	0.004	0.486	0.086	0.486	0.035	0.263	Pass
4	0.011	0.617	0.246	0.617	0.035	0.283	Pass

Member Design Capacity (LRFD)

Member ID	F'_b(ksi)	F'_t(ksi)	F'_v(ksi)	F'_c(ksi)	F'_{cp}(ksi)	E'(ksi)	E'_{min}(ksi)
1	2.681	1.49	0.311	2.683	0.939	1600.0	1041.216
2	2.681	1.49	0.311	2.683	0.939	1600.0	1041.216
3	2.681	1.49	0.311	2.683	0.939	1600.0	1041.216
4	2.681	1.49	0.311	2.683	0.939	1600.0	1041.216

Node Coordinates

ID	X Coordinate	Y Coordinate
1	0.000	0.000
2	9.000	4.989
3	18.000	9.978
4	27.000	14.966
5	-1.500	-0.831

Members

ID	Node A	Node B	Section	Node A Fixity	Node B Fixity	Length
1	1	2	1	FFFFFF	FFFFFF	10.290
2	5	1	1	FFFFFF	FFFFFF	1.715
3	2	3	1	FFFFFF	FFFFFF	10.290
4	3	4	1	FFFFFF	FFFFFF	10.290

Supports

ID	Node ID	Restraint Code
1	2	RFFRRR
2	3	RFFRRR
3	4	RFFRRR
4	1	FFFFFR

Materials

ID	Name	Young's Modulus	Density	Poisson's Ratio
1	NDS - Table 4A - DOUGLAS FIR-LARCH - No.2- 2in & wider	1600.000	33.308	0.400

Sections

ID	Name	Depth	Width	Shear Area Z	Shear Area Y	Torsion Radius
1	1.5 x 3.5	4.000	1.500	5.000	5.000	1.464

ID	Centroid Y	Centroid Z	Area	Y-Axis MoI	Z-Axis MoI	Torsion Constant
1	0.750	2.000	6.000	1.125	8.000	3.437

Point Loads

ID	Load Group	Member	Position %	Y Magnitude
1	Solar-Snow	1	61.111%	0.000
2	Solar	1	61.111%	-0.017
3	Solar-Snow	3	13.685%	0.000
4	Solar	3	13.685%	-0.017
5	Solar-Snow	3	66.260%	0.000
6	Solar	3	66.260%	-0.017

Member Distributed Loads

ID	Load Group	Start Position	End Position	Member	Y Magnitude

1	Dead Load	0.000%	100.000%	2	-0.013
2	Dead Load	0.000%	100.000%	1	-0.013
3	Roof Live Load	0.000%	100.000%	2	-0.032
4	Roof Live Load	0.000%	50.000%	1	-0.032
5	Roof Live Load	7.723%	100.000%	4	-0.032
6	Snow Load	0.000%	100.000%	2	0.000
7	Snow Load	0.000%	50.000%	1	0.000
8	Snow Load	7.723%	100.000%	4	0.000
9	Dead Load	0.000%	100.000%	3	-0.013
10	Dead Load	0.000%	100.000%	4	-0.013

Load Combinations

ID	Name	Dead Load Factor	Snow Load Factor	Solar Factor	Solar-Snow Factor	Roof Live Load Factor
1	1. 1.4D	1.4	0	1.4	0	0
2	3. 1.2D + 1.6Lr	1.2	0	1.2	0	1.6
3	3. 1.2D + 1.6S	1.2	1.6	1.2	1.6	0
4	4. service loads A	0	1	0	1	0
5	5. service loads B	0	0	0	0	1

Internal Member Forces and Moments

Member	Axial Force (Min/Max)	Shear Force Y (Min/Max)	Shear Force Z (Min/Max)	Torsion (Min/Max)	Bending Moment Y (Min/Max)	Bending Moment Z (Min/Max)
1	-0.083 / 0.130	-0.150 / 0.235	0.000 / 0.000	0.000 / 0.000	0.000 / 0.000	-0.217 / 0.390
2	-0.055 / 0.000	-0.099 / 0.000	0.000 / 0.000	0.000 / 0.000	0.000 / 0.000	-0.085 / 0.000
3	-0.052 / 0.059	-0.094 / 0.107	0.000 / 0.000	0.000 / 0.000	0.000 / 0.000	-0.434 / -0.095
4	-0.141 / 0.170	-0.255 / 0.306	0.000 / 0.000	0.000 / 0.000	0.000 / 0.000	-0.434 / 0.552

Member Displacement Span Check

Member	Length	Max Relative Displacement	Span Method 1
1	10.290	0.215	L/574
2	1.715	0.118	L/174
3	10.290	0.180	L/685
4	10.290	0.388	L/318

Member Stresses

Member	Axial Stress (Min/Max)	Torsion Stress (Min/Max)	Shear Stress Y (Min/Max)	Shear Stress Z (Min/Max)	Top Bending Moment Z (Min/Max)	Bottom Bending Moment Z (Min/Max)
1	-0.014 / 0.022	0.000 / 0.000	-0.037 / 0.059	0.000 / 0.000	-0.651 / 1.170	-1.170 / 0.651
2	-0.009 / 0.000	0.000 / 0.000	-0.025 / 0.000	0.000 / 0.000	-0.256 / 0.000	0.000 / 0.256
3	-0.009 / 0.010	0.000 / 0.000	-0.024 / 0.027	0.000 / 0.000	-1.303 / -0.284	0.284 / 1.303
4	-0.024 / 0.028	0.000 / 0.000	-0.064 / 0.077	0.000 / 0.000	-1.303 / 1.655	-1.655 / 1.303

PROJECT DESCRIPTION:

28 x SF390M (FB) MODULES
ROOF MOUNTED SOLAR PHOTOVOLTAIC MODULES
SYSTEM SIZE: 10.92 KW DC STC
ARRAY AREA: ROOF #1 - 523.70 SQ. FT

EQUIPMENT SUMMARY:

28 SF390M (FB) MODULES
28 ENPHASE IQ7PLUS-72-2-US [240V] MICROINVERTERS

AUTHORITIES HAVING JURISDICTION:

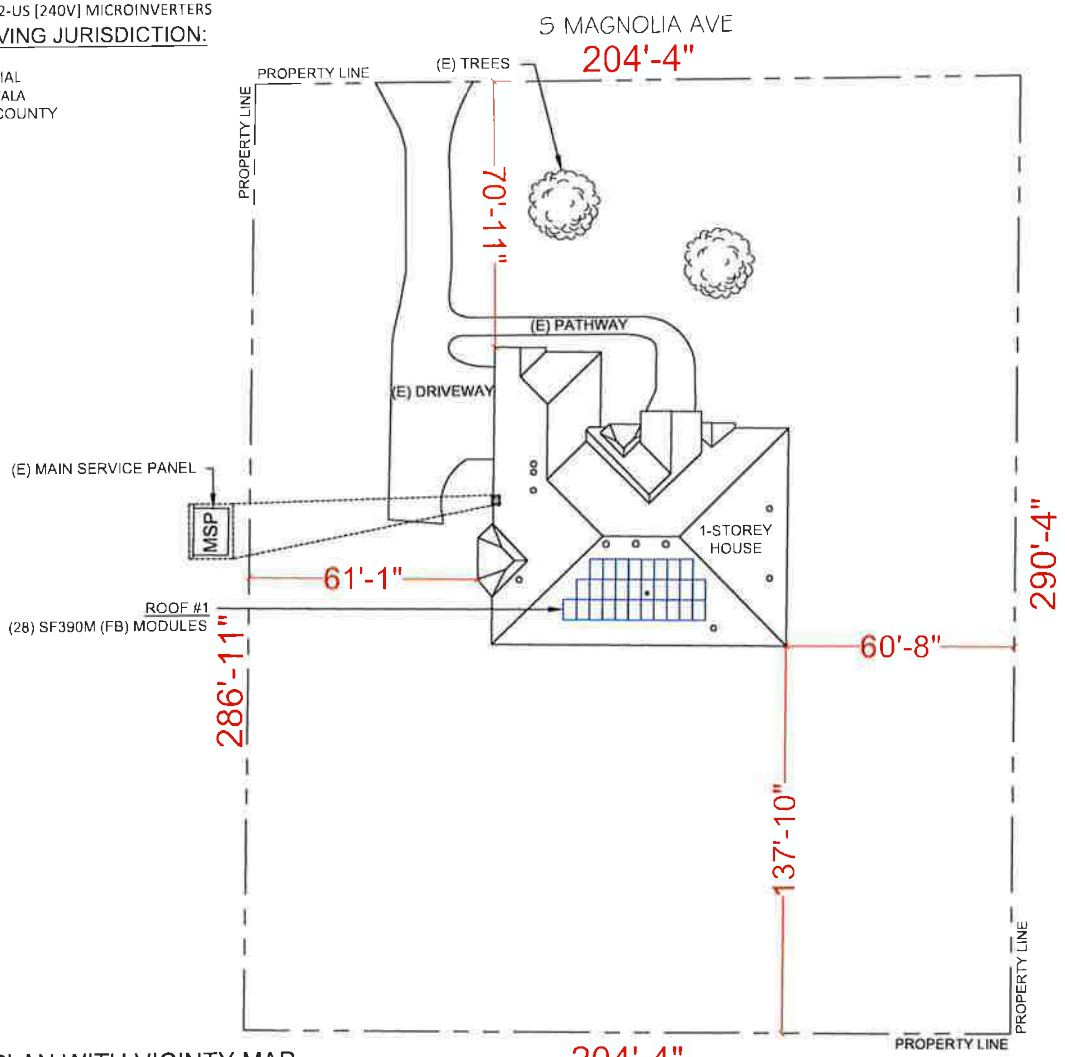
BUILDING	:	N/A
ZONING	:	RESIDENTIAL
UTILITY	:	CITY OF OCALA
AHJ	:	MARION COUNTY

APPLICABLE CODES & STANDARDS:

OCCUPANCY	:	II
CONSTRUCTION	:	SINGLE-FAMILY
ZONING	:	RESIDENTIAL
GROUND SNOW LOAD (ASCE : 7-16)	:	0
WIND EXPOSURE	:	B
WIND SPEED (ASCE : 7-16)	:	130 MPH

APPLICABLE CODES & STANDARDS:

2020 FLORIDA FIRE PREVENTION CODE (7TH EDITION)
2018 NFPA 1(FIRE CODE)
2017 NATIONAL ELECTRICAL CODE
2020 FLORIDA BUILDING CODE(7TH EDITION)
FLORIDA ADMINISTRATIVE CODE(FAC)



1 PV-1 PLOT PLAN WITH VICINITY MAP
SCALE: 1/32" = 1'-0"

PV-1 HOUSE PHOTO SCALE: NTS

1 PV-1 VICINITY MAP SCALE: NTS

SHEET INDEX

SunLight solar
SUNLIGHT ENTERPRISE
7575 KINGSPOINT OKWY.,
SUIT #4 - ORLANDO, FL 32819
(321) 888-3388

REVISIONS

DESCRIPTION	DATE	REV

Signature with Seal

PROJECT NAME & ADDRESS

PATRIC ZONA RESIDENCE
6575 S MAGNOLIA AVE
OCALA, FL 34471

DATE: 02/15/2023

SHEET NAME
COVER PAGE

SHEET SIZE
ANSI B
11" X 17"

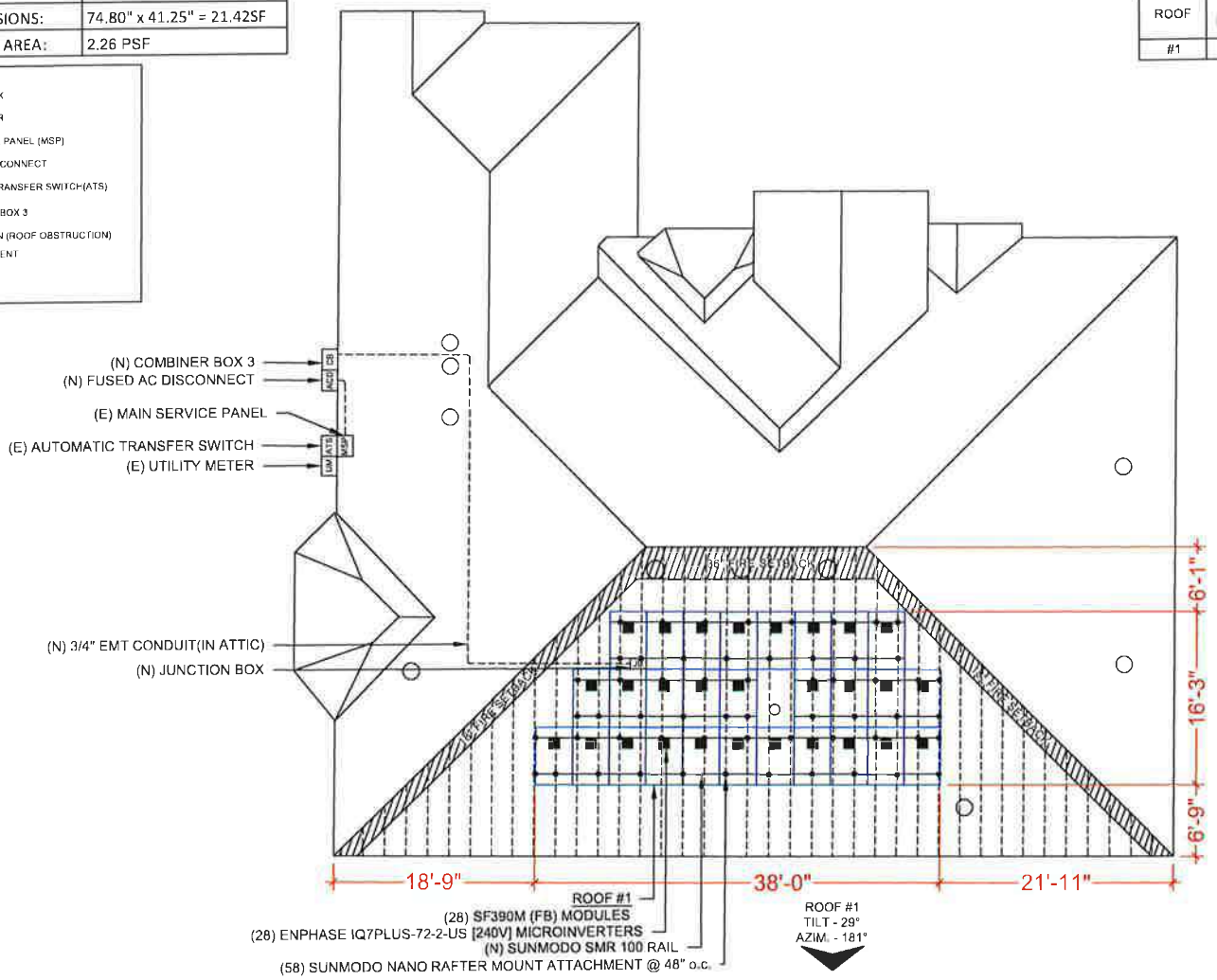
SHEET NUMBER
PV-1

MODULE TYPE, DIMENSIONS & WEIGHT	
NUMBER OF MODULES:	28 MODULES
MODULE TYPE:	SF390M (FB)
MODULE WEIGHT:	48.5 LBS
MODULE DIMENSIONS:	74.80" x 41.25" = 21.42SF
UNIT WEIGHT OF AREA:	2.26 PSF

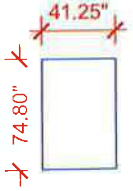
LEGEND

- JB — (N) JUNCTION BOX
- UM — (E) UTILITY METER
- MSP — (E) MAIN SERVICE PANEL (MSP)
- ACD — (N) FUSED AC DISCONNECT
- ATS — (E) AUTOMATIC TRANSFER SWITCH(ATS)
- CB — (N) IQ COMBINER BOX 3
- ○□ - VENT, ATTIC FAN (ROOF OBSTRUCTION)
- ● - ROOF ATTACHMENT
- ——- - CONDUIT
- —— - TRUSS

S MAGNOLIA AVE
(E) FRONT OF RESIDENCE



(E) BACK OF RESIDENCE



SF390M (FB)
MODULES

ROOF DESCRIPTION					
ROOF	ROOF TILT	AZIMUTH	TRUSS SIZE	TRUSS SPACING	ROOF MATERIAL
#1	29°	181°	2" X 4"	24" o.c.	COMP. SHINGLE

ARRAY AREA & ROOF AREA CALC'S				
ROOF	# OF MODULES	ARRAY AREA (Sq. Ft.)	ROOF AREA (Sq. Ft.)	ROOF AREA COVERED BY ARRAY (%)
#1	28	523.70	1441.76	36

ROBERT SMYTHE LICENSE No. 89045 STATE OF FLORIDA PROFESSIONAL ENGINEER

03/01/2023

SunLight solar

SUNLIGHT ENTERPRISE
7575 KINGSPOINT OKWY., SUIT #4 - ORLANDO, FL 32819
(321) 888-3388

REVISIONS		
DESCRIPTION	DATE	REV

Signature with Seal

PROJECT NAME & ADDRESS

PATRIC ZONA RESIDENCE
6575 S MAGNOLIA AVE
OCALA, FL 34471

DATE: 02/15/2023

SHEET NAME
ROOF PLAN & MODULES

SHEET SIZE
ANSI B
11" X 17"

SHEET NUMBER
PV-2

1 ROOF PLAN & MODULES
PV-2 SCALE: 3/32" = 1'-0"

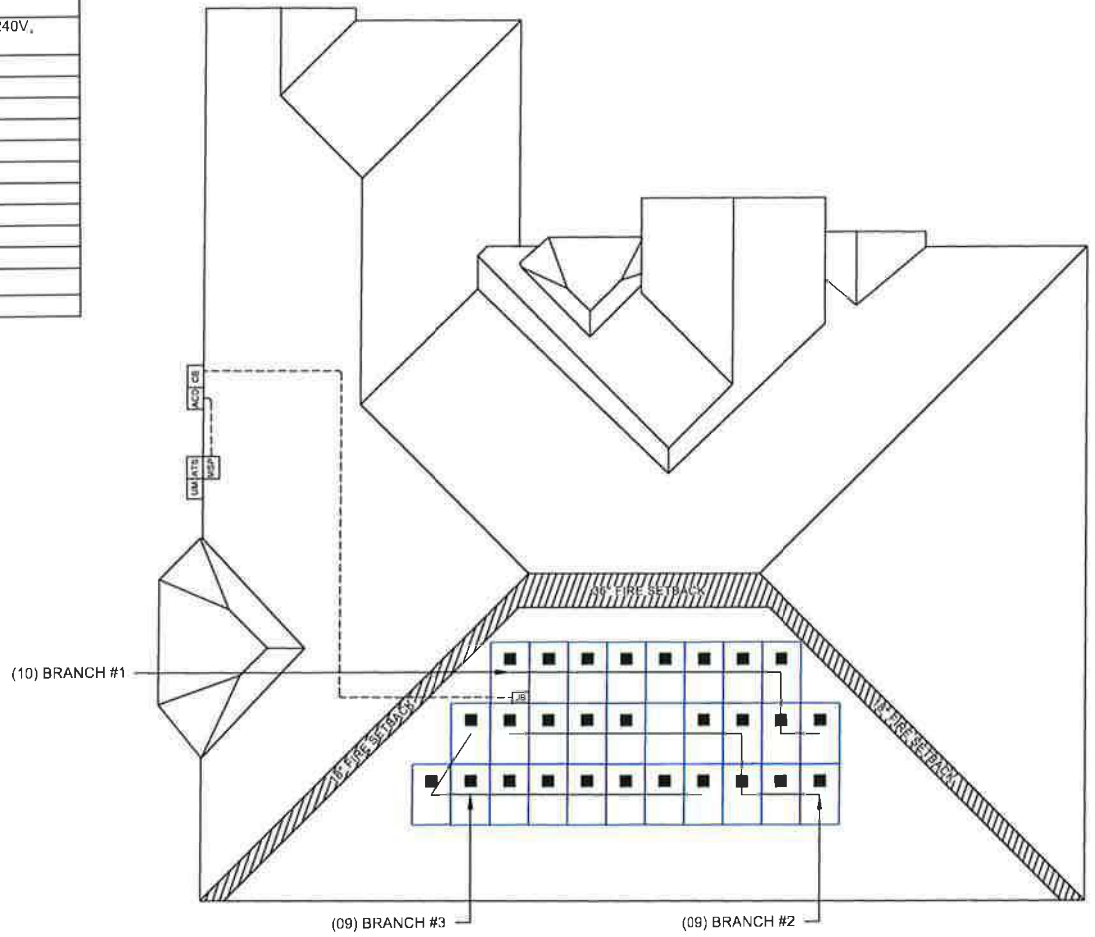
BILL OF MATERIALS

EQUIPMENT	QTY	DESCRIPTION
SOLAR PV MODULE	28	SF390M (FB)MODULES
INVERTER	28	ENPHASE IQ7PLUS-72-2-US [240V] MICROINVERTER
JUNCTION BOX	1	JUNCTION BOX, NEMA 3R, UL LISTED
COMBINER BOX	1	ENPHASE IQ COMBINER 3 W/ IQ ENVOY (X-IQ-AM1-240-3)
AC DISCONNECT	1	60A FUSED AC DISCONNECT, (2) 50A FUSES, 240V, NEMA 3R, UL LISTED
ATTACHMENT	58	NANO RAFTER MOUNT
ATTACHMENT	58	NANO GASKET
ATTACHMENT	58	HEX LAG BOLT M8X115, DIN 571, 304S
ATTACHMENT	58	SEALING WASHER .33 ID X .75 X .157
ENPHASE Q CABLE	34	ENPHASE Q CABLE 240V, (PER CONNECTOR)
BRANCH TERMINATOR	3	BRANCH TERMINATOR
IQ WATER TIGHT CAP	6	IQ WATER TIGHT CAP
RAILS	14	SUNMODO SMR 100 RAIL- 14 FEET (168")
BONDED SPLICE	8	SPLICE KIT
CLAMP	48	MODULES CLAMPS (MID CLAMPS)
CLAMP	16	MODULES CLAMPS (END CLAMPS)
GROUNDING LUG	4	GROUNDING LUG

ROBERT SMYTHE LICENSE No. 89045 STATE OF FLORIDA PROFESSIONAL ENGINEER

03/01/2023

S MAGNOLIA AVE
(E) FRONT OF RESIDENCE



(E) BACK OF RESIDENCE

1 STRING LAYOUT & BOM
PV-2A
SCALE: 3/32" = 1'-0"

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SUNLIGHT ENTERPRISE
7575 KINGSPOINT OKWY., SUIT #4 - ORLANDO, FL 32819
(321) 888-3388

REVISIONS

DESCRIPTION	DATE	REV

Signature with Seal

PROJECT NAME & ADDRESS

PATRIC ZONA RESIDENCE
6575 S MAGNOLIA AVE
OCALA, FL 34471

DATE: 02/15/2023

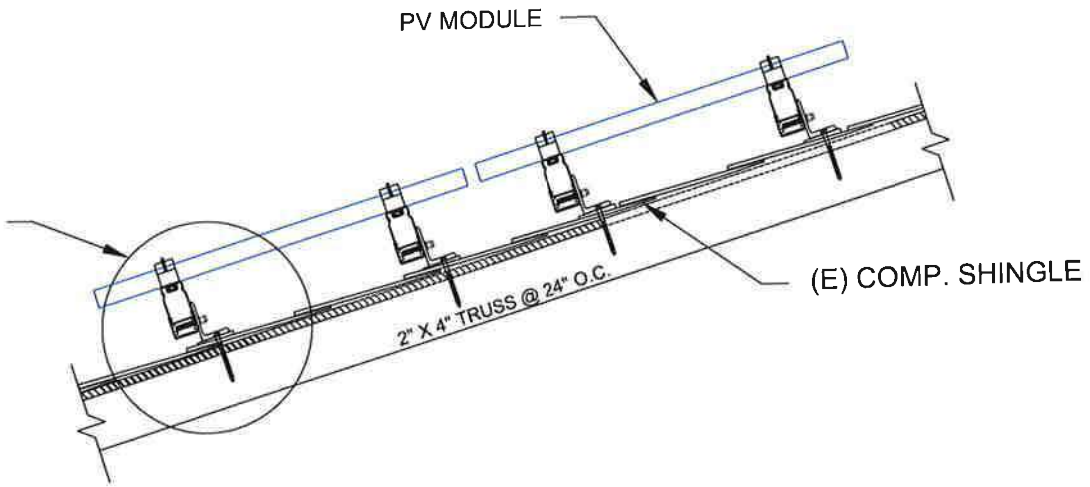
SHEET NAME
STRING LAYOUT & BOM

SHEET SIZE
ANSI B
11" X 17"

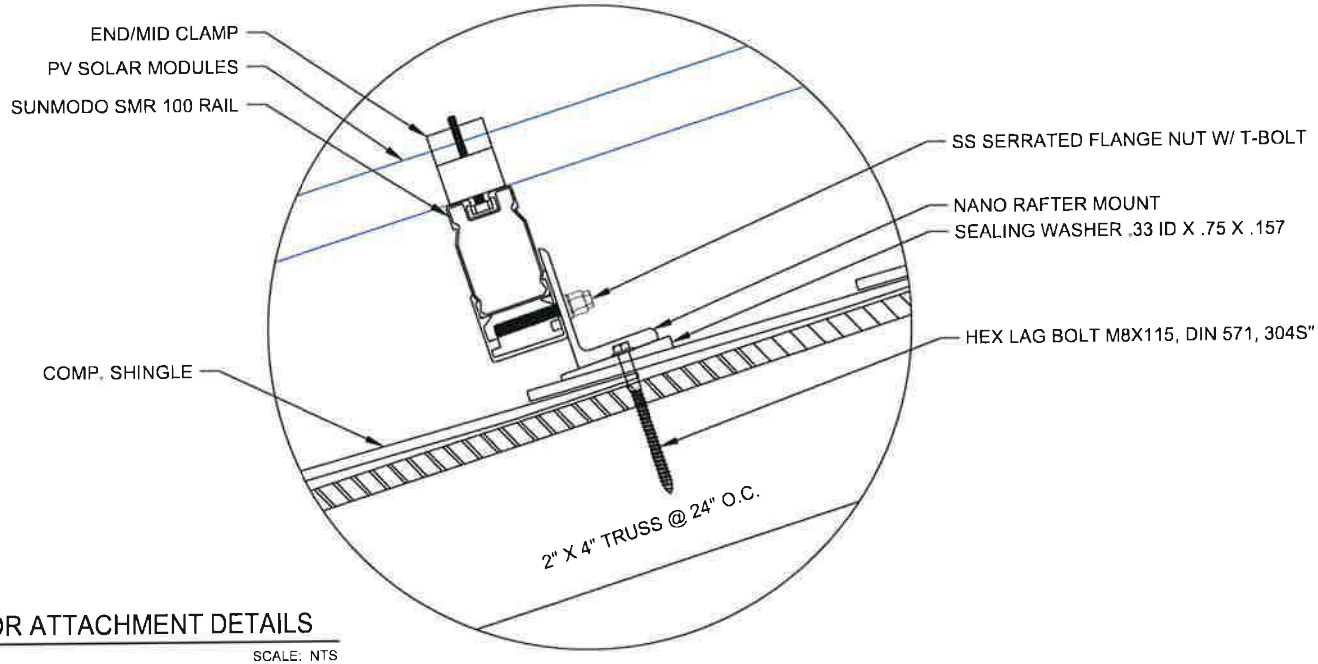
SHEET NUMBER
PV-2A

ROBERT SMYTHE
LICENSE
No. 89045
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

03/01/2023



1 ATTACHMENT DETAILS
PV-3



2 ENLARGED VIEW FOR ATTACHMENT DETAILS
PV-3
SCALE: NTS

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7575 KINGSPOINT OKWY.,
SUIT #4 - ORLANDO, FL 32819
(321) 888-3388

REVISIONS

DESCRIPTION	DATE	REV

Signature with Seal

PROJECT NAME & ADDRESS

PATRIC ZONA
RESIDENCE
6575 S MAGNOLIA AVE
OCALA, FL 34471

DATE: 02/15/2023

SHEET NAME
ATTACHMENT
DETAIL

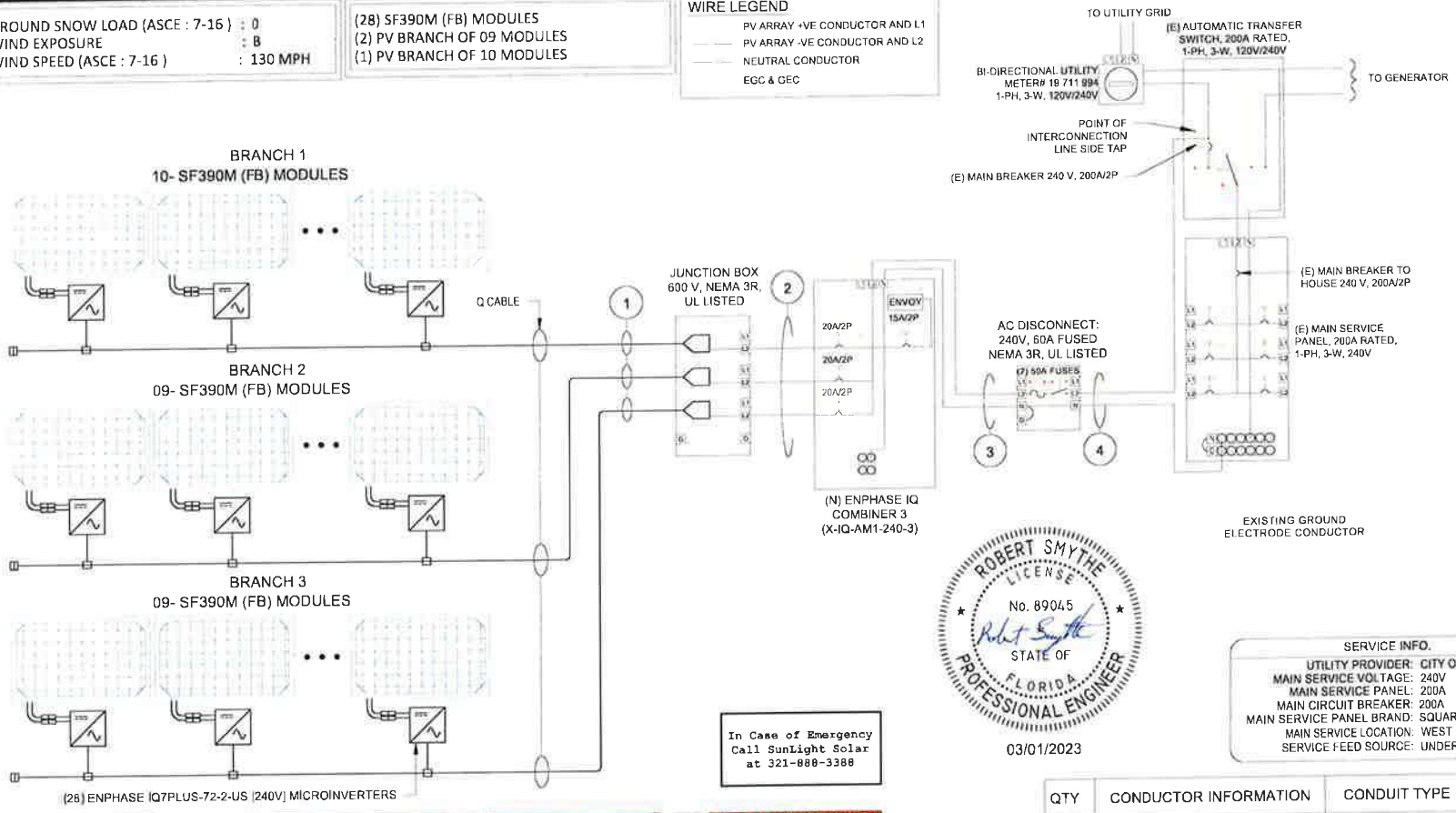
SHEET SIZE
ANSI B
11" X 17"

SHEET NUMBER
PV-3

GROUND SNOW LOAD (ASCE : 7-16)	: 0
WIND EXPOSURE	: B
WIND SPEED (ASCE : 7-16)	: 130 MPH

(28) SF390M (FB) MODULES
(2) PV BRANCH OF 09 MODULES
(1) PV BRANCH OF 10 MODULES

WIRE LEGEND
- PV ARRAY +VE CONDUCTOR AND L1
- PV ARRAY -VE CONDUCTOR AND L2
- NEUTRAL CONDUCTOR
- EGC & GEC



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03/01/2023

In Case of Emergency Call SunLight Solar at 321-888-3388

SERVICE INFO.
UTILITY PROVIDER: CITY OF OCALA
MAIN SERVICE VOLTAGE: 240V
MAIN SERVICE PANEL: 200A
MAIN CIRCUIT BREAKER: 200A
MAIN SERVICE PANEL BRAND: SQUARE D
MAIN SERVICE LOCATION: WEST
SERVICE FEED SOURCE: UNDERGROUND

	QTY	CONDUCTOR INFORMATION		CONDUIT TYPE	CONDUIT SIZE
1	(6)	#12AWG	ENPHASE Q CABLE	N/A	N/A
	(1)	#6AWG	BARE COPPER IN FREE AIR		
2	(6)	#10AWG	THWN-2	EMT OR FLEX IN ATTIC	3/4"
	(1)	#10AWG	THWN-2 GND		
3	(3)	#8AWG	THWN-2	EMT OR FLEX	3/4"
	(1)	#10AWG	THWN-2 GND		
4	(3)	#6AWG	THWN-2	EMT OR FLEX	3/4"
	(1)	-	-		

1 ⚠ WARNING ⚠ ELECTRIC SHOCK HAZARD DO NOT TOUCH TERMINALS TERMINALS ON BOTH THE LINE AND LOAD SIDE MAY BE ENERGIZED IN THE OPEN POSITION
LABEL LOCATION: COMBINER BOX/ EMT ENCLOSURES/ AC DISCONNECT/ MAIN SERVICE PANEL (PER CODE: NEC 2017, 690.13(B))

2 WARNING PHOTOVOLTAIC POWER SOURCE
LABEL LOCATION: CONDUIT, RACEWAY, ENCLOSURES, COMBINER BOX & AC DISCONNECT (PER CODE: NEC2017, 690.31(G)(3)(4))

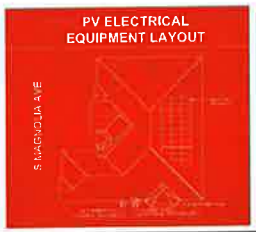
3 PHOTOVOLTAIC AC DISCONNECT
LABEL LOCATION: AC DISCONNECT/ BREAKER/ POINTS OF CONNECTION (PER CODE: NEC2017, 690.13(B))

4 PHOTOVOLTAIC AC DISCONNECT
RATED AC OUTPUT CURRENT: 33.16A
NOMINAL OPERATING AC VOLTAGE: 240V
LABEL LOCATION: AC DISCONNECT (PER CODE: NEC2017, 690.53)

5 RAPID SHUTDOWN SWITCH FOR SOLAR PV SYSTEM
LABEL LOCATION: RAPID SHUTDOWN (AC DISCONNECT) PER CODE: NEC 690.56 (C)(3)

6 EMERGENCY RESPONDER SOLAR PV SYSTEM EQUIPPED WITH RAPID SHUTDOWN
LABEL LOCATION: RAPID SHUTDOWN (AC DISCONNECT) PER CODE: NEC 690.56 (C)(1) AND NFPA 11.1.12.2.1.1.1 & 11.12.2.1.4

7 ⚠ WARNING ⚠ DUAL POWER SUPPLY SOURCES: UTILITY GRID AND PV POWER SOURCE ELECTRIC SYSTEM
LABEL LOCATION: POINT OF INTERCONNECTION (PER CODE: NEC 2017, 705.12(B))

8 PV ELECTRICAL EQUIPMENT LAYOUT


1 ELECTRICAL LINE DIAGRAM
SCALE: NTS
PV-4

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7575 KINGSPOINT OKWY., SUIT #4 - ORLANDO, FL 32819
(321) 888-3388

REVISIONS

DESCRIPTION	DATE	REV

Signature with Seal

PROJECT NAME & ADDRESS
PATRIC ZONA RESIDENCE
6575 S MAGNOLIA AVE
OCALA, FL 34471

DATE: 02/15/2023

SHEET NAME
ELECTRICAL LINE CALCS.

SHEET SIZE
ANSI B
11" X 17"

SHEET NUMBER
PV-4

SOLAR MODULE SPECIFICATIONS	
MANUFACTURER / MODEL	SF390M (FB)
VMP	37.60 V
IMP	10.37 A
VOC	45.12 V
ISC	10.98 A
TEMP. COEFF. VOC	-0.28 %/°C
MODULE DIMENSION	74.80" (L) x 41.25" (W)
PANEL WATTAGE	390W

INVERTER SPECIFICATIONS	
MANUFACTURER / MODEL	ENPHASE IQ7PLUS-72-2-US
MAX DC SHORT CIRCUIT CURRENT	15 A
CONTINUOUS OUTPUT CURRENT	1.21A (240VAC)

AMBIENT TEMPERATURE SPECS	
RECORD LOW TEMP	-6°C
AMBIENT TEMP (HIGH TEMP 2%)	34°C
CONDUIT HEIGHT	0.5"
ROOF TOP TEMP	56°C

ROBERT SMYTHE LICENSE No. 89045 STATE OF FLORIDA PROFESSIONAL ENGINEER

03/01/2023

ELECTRICAL NOTES

1.) ALL EQUIPMENT TO BE LISTED BY UL OR OTHER NRTL, AND LABELED FOR ITS APPLICATION.
2.) ALL CONDUCTORS SHALL BE COPPER, RATED FOR 600 V AND 90 DEGREE C WET ENVIRONMENT.
3.) WIRING, CONDUIT, AND RACEWAYS MOUNTED ON ROOFTOPS SHALL BE ROUTED DIRECTLY TO, AND LOCATED AS CLOSE AS POSSIBLE TO THE NEAREST RIDGE, HIP, OR VALLEY.
4.) WORKING CLEARANCES AROUND ALL NEW AND EXISTING ELECTRICAL EQUIPMENT SHALL COMPLY WITH NEC 110.26.
5.) DRAWINGS INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS. CONTRACTOR SHALL FURNISH ALL NECESSARY OUTLETS, SUPPORTS, FITTINGS AND ACESSORIES TO FULFILL APPLICABLE CODES AND STANDARDS.
6.) WHERE SIZES OF JUNCTION BOXES, RACEWAYS, AND CONDUITS ARE NOT SPECIFIED, THE CONTRACTOR SHALL SIZE THEM ACCORDINGLY.
7.) ALL WIRE TERMINATIONS SHALL BE APPROPRIATELY LABELED AND READILY VISIBLE.
8.) MODULE GROUNDING CLIPS TO BE INSTALLED BETWEEN MODULE FRAME AND MODULE SUPPORT RAIL, PER THE GROUNDING CLIP MANUFACTURER'S INSTRUCTION.
9.) MODULE SUPPORT RAIL TO BE BONDED TO CONTINUOUS COPPER G.E.C. VIA WEEB LUG OR ILSCO GBL-4DBT LAY-IN LUG.
10.) THE POLARITY OF THE GROUNDED CONDUCTORS IS NEGATIVE

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PATRIC ZONA RESIDENCE
6575 S MAGNOLIA AVE
OCALA, FL 34471

DATE: 02/15/2023

SHEET NAME
SPECIFICATIONS & CALC.

SHEET SIZE
ANSI B
11" X 17"

SHEET NUMBER
PV-5

DC CONDUCTOR AMPACITY CALCULATIONS:
ARRAY TO JUNCTION BOX:

EXPECTED WIRE TEMP	56°C
TEMP. CORRECTION PER NEC TABLE 310.15 (B)(2)(a)	0.71
NO. OF CURRENT CARRYING CONDUCTORS	6
CONDUIT FILL CORRECTION PER NEC TABLE 310.15(B)(3)(a)	N/A
CIRCUIT CONDUCTOR SIZE	12AWG
CIRCUIT CONDUCTOR AMPACITY PER NEC TABLE 310.15(B)(16)	N/A

REQUIRED CIRCUIT CONDUCTOR AMPACITY PER NEC 690.8(A&B)	15.1A
1.21 x Imax	
DERATED AMPACITY OF CIRCUIT CONDUCTOR	N/A
TEMP. CORRECTION PER TABLE 310.15 (B)(2)(a) X CONDUIT FILL CORRECTION PER NEC 310.15(B)(3)(a) X CIRCUIT CONDUCTOR AMPACITY 310.15 (B)(16)	
Result should be greater than (15.1A) otherwise less the entry for circuit conductor size and ampacity	

FROM JUNCTION BOX TO IQ COMBINER BOX 3

EXPECTED WIRE TEMP	34°C
TEMP. CORRECTION PER NEC TABLE 310.15 (B)(2)(a)	0.96
NO. OF CURRENT CARRYING CONDUCTORS	6
CONDUIT FILL CORRECTION PER NEC TABLE 310.15(B)(3)(a)	0.8
CIRCUIT CONDUCTOR SIZE	10 AWG
CIRCUIT CONDUCTOR AMPACITY PER NEC TABLE 310.15(B)(16)	40A

REQUIRED CIRCUIT CONDUCTOR AMPACITY PER NEC 690.8(A&B)	15.1A
1.21 X Imax	
DERATED AMPACITY OF CIRCUIT CONDUCTOR	30.7A
TEMP. CORRECTION PER TABLE 310.15 (B)(2)(a) X CONDUIT FILL CORRECTION PER NEC 310.15(B)(3)(a) X CIRCUIT CONDUCTOR AMPACITY 310.15 (B)(16)	
Result should be greater than (15.1A) otherwise less the entry for circuit conductor size and ampacity	

AC CONDUCTOR AMPACITY CALCULATIONS
IQ COMBINER 3 TO FUSED AC DISCONNECT:

NO. OF INVERTER	28
EXPECTED WIRE TEMP	34°C
TEMP. CORRECTION PER NEC TABLE 310.15 (B)(2)(a)	0.96
NO. OF CURRENT CARRYING CONDUCTORS	3
CONDUIT FILL CORRECTION PER NEC TABLE 310.15(B)(3)(a)	1
CIRCUIT CONDUCTOR SIZE	8AWG
CIRCUIT CONDUCTOR AMPACITY PER NEC TABLE 310.15(B)(16)	55A

REQUIRED CIRCUIT CONDUCTOR AMPACITY PER NEC 690.8(A&B)	42.4A
1.25 x INVERTER OUTPUT CURRENT x NO. OF MICROINVERTER	
DERATED AMPACITY OF CIRCUIT CONDUCTOR	52.8A
TEMP. CORRECTION PER TABLE 310.15 (B)(2)(a) X CONDUIT FILL CORRECTION PER NEC 310.15(B)(3)(a) X CIRCUIT CONDUCTOR AMPACITY 310.15 (B)(16)	
Result should be greater than (42.4A) otherwise less the entry for circuit conductor size and ampacity	

AC CONDUCTOR AMPACITY CALCULATIONS
FUSED AC DISCONNECT TO ATS:

NO. OF INVERTER	28
EXPECTED WIRE TEMP	34°C
TEMP. CORRECTION PER NEC TABLE 310.15 (B)(2)(a)	0.96
NO. OF CURRENT CARRYING CONDUCTORS	3
CONDUIT FILL CORRECTION PER NEC TABLE 310.15(B)(3)(a)	1
CIRCUIT CONDUCTOR SIZE	6AWG
CIRCUIT CONDUCTOR AMPACITY PER NEC TABLE 310.15(B)(16)	75A

REQUIRED CIRCUIT CONDUCTOR AMPACITY PER NEC 690.8(A&B)	42.4A
1.25 x INVERTER OUTPUT CURRENT x NO. OF MICROINVERTER	
DERATED AMPACITY OF CIRCUIT CONDUCTOR	72.0A
TEMP. CORRECTION PER TABLE 310.15 (B)(2)(a) X CONDUIT FILL CORRECTION PER NEC 310.15(B)(3)(a) X CIRCUIT CONDUCTOR AMPACITY 310.15 (B)(16)	
Result should be greater than (42.4A) otherwise less the entry for circuit conductor size and ampacity	

ROBERT SMYTHE LICENSE No. 89045 STATE OF FLORIDA PROFESSIONAL ENGINEER

03/01/2023

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(321) 888-3388

REVISIONS

DESCRIPTION	DATE	REV

Signature with Seal

PROJECT NAME & ADDRESS

PATRIC ZONA RESIDENCE
6575 S MAGNOLIA AVE
OCALA, FL 34471

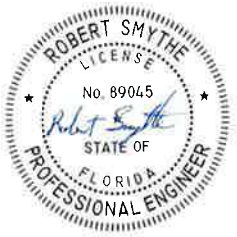
DATE: 02/15/2023

SHEET NAME
SPECIFICATIONS & CALC.

SHEET SIZE
ANSI B
11" X 17"

SHEET NUMBER
PV-5A

Calculating AC Line Voltage Rise for IQ7+ Micros with Q Cable:



03/01/2023

Voltage rise in Q Cable from the Microinverters to the Junction Box

For branch circuit #1 of 10 IQ 7+ Micros, the voltage rise on the 240 VAC Q Cable is 0.47%
For branch circuit #2 of 09 IQ 7+ Micros, the voltage rise on the 240 VAC Q Cable is 0.38%
For branch circuit #3 of 09 IQ 7+ Micros, the voltage rise on the 240 VAC Q Cable is 0.38%

Voltage rise from the Junction Box to the IQ Combiner Box 3

VRise = (amps/inverter × number of inverters) × (resistance in Ω/ft) × (2-way wire length in ft.)
= (1.21 amp ×10) × (0.00129 Ω/ft) × (66 ft × 2)
= 12.10 amps × 0.00129 Ω/ft × 132 ft
= 2.06 volts
%VRise = 2.06 volts ÷ 240 volts = 0.86%
The voltage rise from the Junction Box to the IQ Combiner Box 3 is 0.86%

Voltage rise from the IQ Combiner Box 3 to AC Disconnect

VRise = (amps/inverter × number of inverters) × (resistance in Ω/ft.) × (2-way wire length in ft.)
= (1.21 amp × 28) × (0.000809 Ω/ft) × (5 ft. × 2)
= 33.88 amps × 0.000809 Ω/ft × 10 ft.
= 0.27 volts
%VRise = 0.27 volts ÷ 240 volts = 0.11%
The voltage rise from the IQ Combiner Box 3 to the AC Disconnect is 0.11%

Voltage rise from the AC Disconnect to the Automatic Transfer Switch

VRise = (amps/inverter × number of inverters) × (resistance in Ω/ft) × (2-way wire length in ft.)
= (1.21 amp × 28) × (0.000491 Ω/ft) × (5 ft × 2)
= 33.88 amps × 0.000491 Ω/ft × 10 ft
= 0.17 volts
%VRise = 0.17 volts ÷ 240 volts =0.07%
The voltage rise from the AC Disconnect to the Automatic Transfer Switch is 0.07%

Total system voltage rise for all three wire sections

0.47% + 0.86% + 0.11% + 0.07% = 1.51%

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PATRIC ZONA RESIDENCE
6575 S MAGNOLIA AVE
OCALA, FL 34471

DATE: 02/15/2023

SHEET NAME
SPECIFICATIONS CALC.

SHEET SIZE
ANSI B
11" X 17"

SHEET NUMBER
PV-6

/// PEIMAR

SF390M (FB) NEW

FULL CELL LINE

MADE IN ITALY MODULE

Peimar monokristallijne zonnepanelen zijn geproduceerd door middel van een combinatie van innovatieve productieprocessen en geavanceerde engineeringtechnieken. Hierdoor bieden zij maximale output en enorme prestaties waardoor minder panelen gebruikt hoeven te worden om meer energie te genereren. Ideaal bij beperkte ruimte of als omgevingsfactoren een uitdaging vormen. Zwarte cellen en zwarte frames in een modern design samen met een zeer lange levensduur, zorgen ervoor dat deze monokristallijnen zonnepanelen een geweldige keus zijn

30 JAAR LINEAIRE VERMOGENSGARANTIE

20 JAAR PRODUCTGARANTIE

PERC-TECHNOLOGIE

REACTIE OP VUUR KLASSE 1

ANTI REFLECTEREND GLAS

QBE-VERZEKERING

CELLEN

66 CELLEN
MONO 9BB M6 | *PERC*
166x166 mm / 6.53x6.53"

OMLIJSTING

SOLIDE EN COMPACT | *40mm*

KAN AAN DE KORTE ZIJDE WORDEN BEVESTIGD

FULL CELL LINE

ELEKTRISCHE KENMERKEN (STC)

	SF390M (FB)
Piekvermogen (Pmax)	390 W
Sorteertolerantie	0/+5 W
Spanning (Vmp)	37.60 V
Stroom (Imp)	10.37 A
Open Circuit spanning (Voc)	45.12 V
Kortsluitingsstroom (Isc)	10.98 A
Maximale Systeemspanning	1500 V
Maximale Nominale Waarde Van De Zekering	15 A
Module efficiëntie	19.59%
Beschermingsklasse tegen elektrische schokken	Klasse II

MECHANISCHE KENMERKEN

Cellen	66 (6x11) M6 monokristallijn *PERC*
Afmetingen Cellen	166x166 mm / 6.53x6.53"
Cover Voorkant	3.2 mm / 0.13" ontspiegeld glas
Cover Achterkant	TPT (Tedlar-PET-Tedlar)
Capsule	EVA (Ethyleen Vinylacetaat)
Omlijsting	Legering van geanodiseerd aluminium dubbele dikte
Afwerkingen Omlijsting	Zwart
Afwerkingen Backsheet	Zwart
Diodes	3 Diodes van Bypass
Aansluitkast	Gecertificeerd IP67
Connectors	MC4 of compatibele connectors
Lengte Kabels	1100 mm / 43.31"
Doorsnede Kabels	4.0 mm² / 0.006 in²
Afmetingen	1900x1048x40 mm / 74.80x41.25x1.57"
Gewicht	22 kg / 48.5 lbs
Maximale Lading (Test Lading) - VF	5400 Pa - 1.5

KENMERKEN TEMPERATUUR

NMOT	45±2 °C
Coëfficiënt temperatuur van de maximale potentie	-0.37 %/°C
Coëfficiënt temperatuur van de spanning van open circuit	-0.28 %/°C
Coëfficiënt temperatuur van de stroom van kortsluiting	0.042 %/°C
Bedrijfstemperatuur	-40 °C ~ +85°C

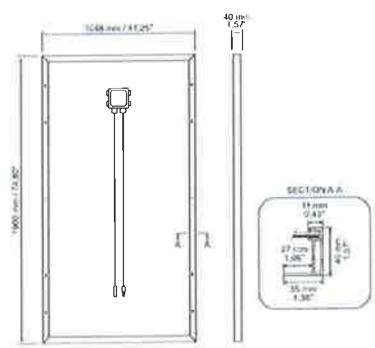
VERPAKKING

Afmeting Pallet	1950x1200x1210 mm / 76.77x47.24x47.64"
Panelen per Pallet	27
Gewicht	610 Kg / 1344 lbs

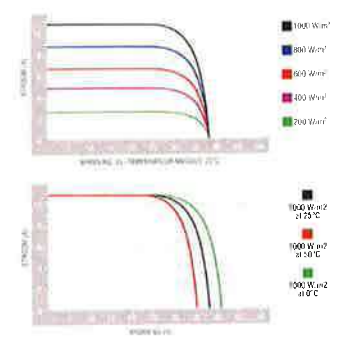
CERTIFICATIES

Vuurbestendigheid	Vuurbestendigheidsklasse 1 (UNI 9177)

AFMETINGEN



KENMERKEN STROOM/SPANNING



/// PEIMAR

www.peimar.com

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SUNLIGHT ENTERPRISE
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REVISIONS		
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PROJECT NAME & ADDRESS

PATRIC ZONA RESIDENCE
6575 S MAGNOLIA AVE
OCALA, FL 34471

DATE: 02/15/2023

SHEET NAME
EQUIPMENT SPECIFICATION

SHEET SIZE
ANSI B
11" X 17"

SHEET NUMBER
PV-7

Enphase IQ 7 and IQ 7+ Microinverters

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

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

IQ Series Microinverters extend the reliability standards set forth by previous generations and undergo over a million hours of power-on testing, enabling Enphase to provide an industry-leading warranty of up to 25 years.

Easy to Install

- Lightweight and simple
- Faster installation with improved, lighter two-wire cabling
- Built-in rapid shutdown compliant (NEC 2014 & 2017)

Productive and Reliable

- Optimized for high powered 60-cell and 72-cell* modules
- More than a million hours of testing
- Class II double-insulated enclosure
- UL listed

Smart Grid Ready

- Complies with advanced grid support, voltage and frequency ride-through requirements
- Remotely updates to respond to changing grid requirements
- Configurable for varying grid profiles
- Meets CA Rule 21 (UL 1741-SA)

* The IQ 7+ Micro is required to support 72-cell modules.

To learn more about Enphase offerings, visit **enphase.com**

ENPHASE.

Enphase IQ 7 and IQ 7+ Microinverters

INPUT DATA (DC)	IQ7-60-2-US	IQ7PLUS-72-2-US
Commonly used module pairings[1]	235 W - 350 W +	235 W - 440 W +
Module compatibility	60-cell PV modules only	60-cell and 72-cell PV modules
Maximum input DC voltage	48 V	60 V
Peak power tracking voltage	27 V - 37 V	27 V - 45 V
Operating range	16 V - 48 V	16 V - 60 V
Min/Max start voltage	22 V / 48 V	22 V / 60 V
Max DC short circuit current (module Isc)	15 A	15 A
Overvoltage class DC port	II	II
DC port backfeed current	0 A	0 A
PV array configuration	1 x 1 ungrounded array; No additional DC side protection required; AC side protection requires max 20A per branch circuit	

OUTPUT DATA (AC)	IQ 7 Microinverter		IQ 7+ Microinverter	
Peak output power	250 VA		295 VA	
Maximum continuous output power	240 VA		290 VA	
Nominal (L-L) voltage/range[2]	240 V / 211-264 V	208 V / 183-229 V	240 V / 211-264 V	208 V / 183-229 V
Maximum continuous output current	1.0 A (240 V)	1.15 A (208 V)	1.21 A (240 V)	1.39 A (208 V)
Nominal frequency	60 Hz		60 Hz	
Extended frequency range	47 - 68 Hz		47 - 68 Hz	
AC short circuit fault current over 3 cycles	5.8 Arms		5.8 Arms	
Maximum units per 20 A (L-L) branch circuit[3]	16 (240 VAC)	13 (208 VAC)	13 (240 VAC)	11 (208 VAC)
Overvoltage class AC port	III		III	
AC port backfeed current	0 A		0 A	
Power factor setting	1.0		1.0	
Power factor (adjustable)	0.85 leading ... 0.85 lagging		0.85 leading ... 0.85 lagging	

EFFICIENCY	@240 V	@208 V	@240 V	@208 V
Peak efficiency	97.6 %	97.6 %	97.5 %	97.3 %
CEC weighted efficiency	97.0 %	97.0 %	97.0 %	97.0 %

MECHANICAL DATA	
Ambient temperature range	-40°C to +65°C
Relative humidity range	4% to 100% (condensing)
Connector type (IQ7-60-2-US & IQ7PLUS-72-2-US)	MC4 (or Amphenol H4 UTX with additional Q-DCC-5 adapter)
Dimensions (WxHxD)	212 mm x 175 mm x 30.2 mm (without bracket)
Weight	1.08 kg (2.38 lbs)
Cooling	Natural convection - No fans
Approved for wet locations	Yes
Pollution degree	PD3
Enclosure	Class II double-insulated, corrosion resistant polymeric enclosure
Environmental category / UV exposure rating	NEMA Type 6 / outdoor

FEATURES	
Communication	Power Line Communication (PLC)
Monitoring	Enlighten Manager and MyEnlighten monitoring options Both options require installation of an Enphase IQ Envoy.
Disconnecting means	The AC and DC connectors have been evaluated and approved by UL for use as the load-break disconnect required by NEC 690.
Compliance	CA Rule 21 (UL 1741-SA) UL 62109-1, UL1741/IEEE1547, FCC Part 15 Class B, ICES-0003 Class B, CAN/CSA-C22.2 NO. 107.1-01 This product is UL Listed as PV Rapid Shut Down Equipment and conforms with NEC-2014 and NEC-2017 section 690.12 and C22.1-2015 Rule 64-218 Rapid Shutdown of PV Systems, for AC and DC conductors, when installed according manufacturer's instructions.

1. No enforced DC/AC ratio. See the compatibility calculator at https://enphase.com/en-us/support/module-compatibility
2. Nominal voltage range can be extended beyond nominal if required by the utility.
3. Limits may vary. Refer to local requirements to define the number of microinverters per branch in your area.

To learn more about Enphase offerings, visit **enphase.com**

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SUNLIGHT ENTERPRISE
7575 KINGSPOINT OKWY, ,
SUIT #4 - ORLANDO, FL 32819
(321) 888-3388

REVISIONS

DESCRIPTION	DATE	REV

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PROJECT NAME & ADDRESS

PATRIC ZONA RESIDENCE
6575 S MAGNOLIA AVE
OCALA, FL 34471

DATE: 02/15/2023

SHEET NAME
EQUIPMENT SPECIFICATION

SHEET SIZE
ANSI B
11" X 17"

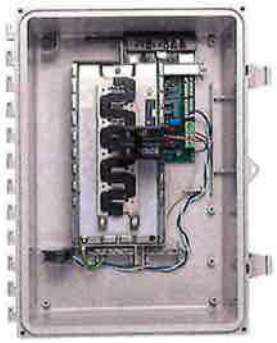
SHEET NUMBER
PV-8

Enphase Networking

Enphase IQ Combiner 3

(X-IQ-AM1-240-3)

The Enphase IQ Combiner 3™ with Enphase IQ Envoy™ consolidates interconnection equipment into a single enclosure and streamlines PV and storage installations by providing a consistent, pre-wired solution for residential applications. It offers up to four 2-pole input circuits and Eaton BR series busbar assembly.



Smart

- Includes IQ Envoy for communication and control
- Flexible networking supports Wi-Fi, Ethernet, or cellular
- Optional AC receptacle available for PLC bridge
- Provides production metering and optional consumption monitoring

Simple

- Reduced size from previous combiner
- Centered mounting brackets support single stud mounting
- Supports back and side conduit entry
- Up to four 2-pole branch circuits for 240 VAC plug-in breakers (not included)
- 80 A total PV or storage branch circuits

Reliable

- Durable NRTL-certified NEMA type 3R enclosure
- Five-year limited warranty
- UL listed

LISTED

To learn more about Enphase offerings, visit enphase.com

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Enphase IQ Combiner 3

MODEL NUMBER	
IQ Combiner 3 X-IQ-AM1-240-3	IQ Combiner 3 with Enphase IQ Envoy™ printed circuit board for integrated revenue grade PV production metering (ANSI C12.20 +/- 0.5%) and optional* consumption monitoring (+/- 2.5%).
ACCESSORIES and REPLACEMENT PARTS (not included, order separately)	
Enphase Mobile Connect™ CELLMODEM-03 (4G/12-year data plan) CELLMODEM-01 (3G/5-year data plan) CELLMODEM-M1 (4G based LTE-M/5-year data plan)	Plug-and-play industrial-grade cellular modem with data plan for systems up to 60 microinverters. (Available in the US, Canada, Mexico, Puerto Rico, and the US Virgin Islands, where there is adequate cellular service in the installation area.)
Consumption Monitoring* CT CT-200-SPLIT	Split-core current transformers enable whole-home consumption metering (+/- 2.5%).
* Consumption monitoring is required for Enphase Storage Systems.	
Wireless USB adapter COMMS-KIT-01	Installed at the IQ Envoy. For communications with Enphase Encharge™ storage and Enphase Enpower™ smart switch. Includes USB cable for connection to IQ Envoy or Enphase IQ Combiner™ and allows redundant wireless communication with Encharge and Enpower.
Circuit Breakers BRK-10A-2-240 BRK-15A-2-240 BRK-20A-2P-240	Supports Eaton BR210, BR215, BR220, BR230, BR240, BR250, and BR260 circuit breakers. Circuit breaker, 2-pole, 10A, Eaton BR210 Circuit breaker, 2-pole, 15A, Eaton BR215 Circuit breaker, 2-pole, 20A, Eaton BR220
EPLC-01	Power line carrier (communication bridge pair), quantity - one pair
XA-PLUG-120-3	Accessory receptacle for Power Line Carrier in IQ Combiner 3 (required for EPLC-01)
XA-ENV-PCBA-3	Replacement IQ Envoy printed circuit board (PCB) for Combiner 3
ELECTRICAL SPECIFICATIONS	
Rating	Continuous duty
System voltage	120/240 VAC, 60 Hz
Eaton BR series busbar rating	125 A
Max. continuous current rating (output to grid)	65 A
Max. fuse/circuit rating (output)	90 A
Branch circuits (solar and/or storage)	Up to four 2-pole Eaton BR series Distributed Generation (DG) breakers only (not included)
Max. continuous current rating (input from PV)	64 A
Max. total branch circuit breaker rating (input)	80A of distributed generation / 90A with IQ Envoy breaker included
Production Metering CT	200 A solid core pre-installed and wired to IQ Envoy
MECHANICAL DATA	
Dimensions (WxHxD)	49.5 x 37.5 x 16.8 cm (19.5" x 14.75" x 6.63"). Height is 21.06" (53.5 cm with mounting brackets).
Weight	7.5 kg (16.5 lbs)
Ambient temperature range	-40° C to +46° C (-40° to 115° F)
Cooling	Natural convection, plus heat shield
Enclosure environmental rating	Outdoor, NRTL-certified, NEMA type 3R, polycarbonate construction
Wire sizes	• 20 A to 50 A breaker inputs: 14 to 4 AWG copper conductors • 60 A breaker branch input: 4 to 1/0 AWG copper conductors • Main lug combined output: 10 to 2/0 AWG copper conductors • Neutral and ground: 14 to 1/0 copper conductors Always follow local code requirements for conductor sizing.
Altitude	To 2000 meters (6,560 feet)
INTERNET CONNECTION OPTIONS	
Integrated Wi-Fi	802.11b/g/n
Ethernet	Optional, 802.3, Cat5E (or Cat 6) UTP Ethernet cable (not included)
Cellular	Optional, CELLMODEM-01 (3G) or CELLMODEM-03 (4G) or CELLMODEM-M1 (4G based LTE-M) (not included)
COMPLIANCE	
Compliance, Combiner	UL 1741, CAN/CSA C22.2 No. 107.1, 47 CFR Part 15, Class B, ICES-003 Production metering: ANSI C12.20 accuracy class 0.5 (PV production)
Compliance, IQ Envoy	UL 60601-1/CAN/CSA 22.2 No. 61010-1

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11" X 17"

SHEET NUMBER
PV-9

Damaging roof shingles used to be one of a solar installers' worst challenges.

Now, the easy, affordable solution is NanoMount®, SunModo's patented solar mounting innovation.

The mount eliminates the need for lifting shingles and dramatically reduces the installation time.

The NanoMount® Advantage

- ✓ The fastest roof attachment in solar.
- ✓ Versatile mounting options including direct-to-decking.
- ✓ Eliminates the need to lift shingles and prevents damage to shingles.
- ✓ High-Velocity Hurricane Zone Approved - Passed TAS 100 (a) Wind-Driven Rain Test.
- ✓ All materials are compatible with asphalt shingles and single-ply roof membranes.

Key Features of NanoMount®

SUNMODO

5 levels of protection against water penetration

Technical Data	
Application	Residential roof coverings, commercial single-ply roof membranes
Material	High grade aluminum, 304 stainless steel hardware
Finish	Black powder coating
Roof Attachment	Rafter and decking
Structural integrity	IBC and IRC Compliant
Warranty	25 years

SunModo, Corp. Vancouver, WA., USA • www.sunmodo.com • 360.844.0048 • info@sunmodo.com

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SHEET SIZE
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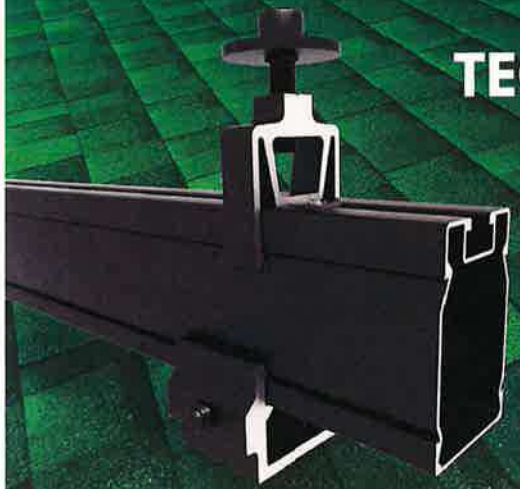
PV-10

SUNMODO

POP-ON TECHNOLOGY LETS YOU HEAR WHEN IT IS RIGHT



SMR Pitched Roof System

SunModo introduces the SMR Pitched Roof System, the best value pitched roof mounting system on the market.

With fast and easy Pop-On Clamps and L-Foot adaptors, professional installers can mount, adjust, and secure PV panels with a single tool.

Whether rafter or deck, portrait or landscape, the SMR System is the ideal solution for your solar installation. Save money on materials and installation time.

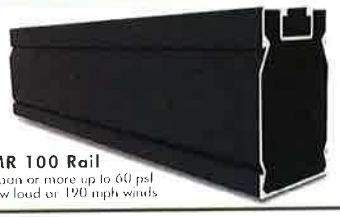
The SMR System Advantage

- ✓ The best value, best performing rail system on the market
- ✓ Lag-to-Panel single tool installation
- ✓ Pop-On universal clamps make installation fast, reliable and flexible
- ✓ A full range of roof attachments to meet every need
- ✓ Fastest install and lowest cost

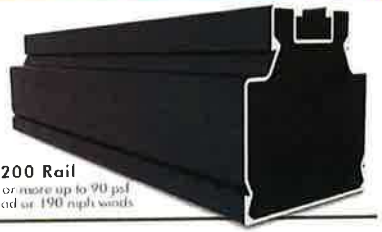
Key Features of the SMR System

SUNMODO

The SMR System represents a huge leap in racking technology. Optimized design makes the SMR Rails not only the lightest but also the strongest rails on the market. One tool assembly and Pop-On technology allow fast and worry-free installation. The cost and performance cannot be beaten.



SMR 100 Rail
4' span or more up to 60 psf snow load or 190 mph winds



SMR 200 Rail
4' span or more up to 90 psf snow load or 190 mph winds

Clamps & Grounding

Mid Clamp
The Bonding Pop-On Universal Mid Clamps accommodate PV module frame heights ranging from 30mm to 48mm. The fastest installing Mid Clamps on the market.

L Foot Adaptor
Fast and easy Pop-On L-Foot Adaptor speeds installation and eliminates old-fashioned T-Bolts. Install fast with full confidence in every attachment.

End Clamp
End Clamps are adjustable for different module frame heights and provide fast and secure attachment of modules.

Rail Splice
Structural bonding splice with fast and easy single bolt installation.

Shared Rail Mid/End Clamp
Easily adapt racking to Shared Rail install. Uses the same Pop-On technology to provide fast and easy install.

Grounding Lug
The Lug provides proper grounding of the PV System.

Technical Data

Application	Pitched Roof
Roof Type	Composition shingle, Metal and Tile
Material	High grade aluminum and 304 stainless steel hardware
PV Modules	Compatible with all common module types
Module Orientation	Portrait and landscape
Roof Attachment	Rafter and decking
Structural Integrity	IBC compliant, stamped engineering letters available
Certificate	UL 2703 listed by ETL
Warranty	25 years

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PV-11

DocuSign

Certificate Of Completion

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Source Envelope:
Document Pages: 41
Signatures: 5
Certificate Pages: 5
Initials: 0
AutoNav: Enabled
EnvelopeId Stamping: Enabled
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110 SE Watula Avenue
City Hall, Third Floor
Ocala, FL 34471
slewis@ocalafl.org
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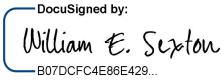
Signer Events	Signature	Timestamp
William E. Sexton wsexton@ocalafl.org City Attorney City of Ocala Security Level: Email, Account Authentication (None)	DocuSigned by:  B07DCFC4E86E429... Signature Adoption: Pre-selected Style Using IP Address: 216.255.240.104	Sent: 4/13/2023 5:24:05 PM Viewed: 4/21/2023 2:02:38 PM Signed: 4/21/2023 2:02:56 PM
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Janice Mitchell jmitchell@Ocalafl.org CFO Security Level: Email, Account Authentication (None)	DocuSigned by:  55198B43858A4E1... Signature Adoption: Pre-selected Style Using IP Address: 216.255.240.104	Sent: 4/21/2023 2:02:57 PM Viewed: 4/21/2023 2:12:52 PM Signed: 4/21/2023 2:17:01 PM
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Chris Gowder chris.gowder@fmpa.com VP of IT/OT and System Ops Security Level: Email, Account Authentication (None)	DocuSigned by:  087F58EBB34B474... Signature Adoption: Uploaded Signature Image Using IP Address: 38.77.131.2	Sent: 4/21/2023 2:17:03 PM Viewed: 4/21/2023 2:17:39 PM Signed: 4/21/2023 2:17:57 PM
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In Person Signer Events	Signature	Timestamp

Editor Delivery Events	Status	Timestamp

Agent Delivery Events	Status	Timestamp

Intermediary Delivery Events	Status	Timestamp

Certified Delivery Events	Status	Timestamp

Carbon Copy Events	Status	Timestamp

Witness Events	Signature	Timestamp

Notary Events	Signature	Timestamp

Envelope Summary Events	Status	Timestamps
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Certified Delivered	Security Checked	4/21/2023 2:17:39 PM
Signing Complete	Security Checked	4/21/2023 2:17:57 PM
Completed	Security Checked	4/21/2023 2:17:57 PM

Payment Events	Status	Timestamps

Electronic Record and Signature Disclosure

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