

230438

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: Tabitha Williams

Mailing Address: 4040 SE 14th Place

City: Ocala State: Fl Zip Code: 34471

Phone Number: 757-816-9888 Alternate Phone Number: \_\_\_\_\_

Email Address: dmwilco@gmail.com Fax Number: \_\_\_\_\_

Ocala Electric Utility Customer Account Number: 514540 - 239253

**2. RGS Facility Information**

Facility Location: \_\_\_\_\_

Ocala Electric Utility Customer Account Number: 514540 - 239253

RGS Manufacturer: Mission Solar Energy

Manufacturer's Address: 8303 S. New Braunfels Ave., San Antonio, TX 78235

Reference or Model Number: MSE Perc 72 415W

Serial Number: \_\_\_\_\_

(Continued on Sheet No.19.1)

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

Effective: October 1, 2019

OCALA ELECTRIC UTILITY  
OCALA, FLORIDA  
(Continue from Sheet No. 19.0)

FIRST REVISED SHEET NO. 19.1  
CANCELS ORIGINAL SHEET NO. 19.1

**3. Facility Rating Information**

Gross Power Rating: 8.82 (“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: Solar

Anticipated In- Service Date: 10/19/22

**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)

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

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OCALA ELECTRIC UTILITY  
OCALA, FLORIDA  
(Continued from Sheet No. 19.1)

FIRST REVISED SHEET NO. 19.2  
CANCELS ORIGINAL 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 3<sup>rd</sup> 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: Tabitha A Williams Date: 10/03/2022  
(Print Name)

  
(Signature)

OCALA ELECTRIC UTILITY  
OCALA, FLORIDA

FIRST REVISED SHEET NO. 21.0  
CANCELS ORIGINAL SHEET NO. 21.0

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

This **Agreement** is made and entered into this 03 day of October, 2022, by and between Tabitha Williams, (hereinafter called "**Customer**"), located at 4040 SE 14th Place 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: 4040 SE 14th Place, 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's 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's 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)

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

Effective: October 1, 2019

OCALA ELECTRIC UTILITY  
OCALA, FLORIDA  
(Continued from Sheet No. 21.0)

FIRST REVISED SHEET NO. 21.1  
CANCELS ORIGINAL 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.

(Continued to Sheet No. 21.2)

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

Effective: October 1, 2019

OCALA ELECTRIC UTILITY  
OCALA, FLORIDA  
(Continued from Sheet No. 21.1)

FIRST REVISED SHEET NO. 21.2  
CANCELS ORIGINAL SHEET NO. 21.2

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)

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

Effective: October 1, 2019

OCALA ELECTRIC UTILITY  
OCALA, FLORIDA  
(Continued from Sheet No. 21.2)

FIRST REVISED SHEET NO. 21.3  
CANCELS ORIGINAL 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)

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

Effective: October 1, 2019

OCALA ELECTRIC UTILITY  
OCALA, FLORIDA  
(Continued from Sheet No. 21.3)

FIRST REVISED SHEET NO. 21.4  
CANCELS ORIGINAL 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)

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

Effective: October 1, 2019

OCALA ELECTRIC UTILITY  
OCALA, FLORIDA  
(Continued from Sheet No. 21.4)

FIRST REVISED SHEET NO. 21.5  
CANCELS ORIGINAL SHEET NO. 21.5

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's 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)

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

Effective: October 1, 2019

OCALA ELECTRIC UTILITY  
OCALA, FLORIDA  
(Continued from Sheet No. 21.5)

FIRST REVISED SHEET NO. 21.6  
CANCELS ORIGINAL 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)

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

Effective: October 1, 2019

OCALA ELECTRIC UTILITY  
OCALA, FLORIDA  
(Continued from Sheet No. 21.6)

FIRST REVISED SHEET NO. 21.7  
CANCELS ORIGINAL 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)

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

Effective: October 1, 2019

OCALA ELECTRIC UTILITY  
OCALA, FLORIDA  
(Continued from Sheet No. 21.7)

FIRST REVISED SHEET NO. 21.8  
CANCELS ORIGINAL SHEET NO. 21.8

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)

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

Effective: October 1, 2019

OCALA ELECTRIC UTILITY  
OCALA, FLORIDA  
(Continued from Sheet No. 21.8)

FIRST REVISED SHEET NO. 21.9  
CANCELS ORIGINAL SHEET NO. 21.9

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

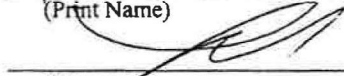
**OUS:**

**Customer:**

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

By: Jabatha Williams  
(Print Name)

Title: CFO

  
(Signature)

Date: 4/24/2023

Date: 10/03/2022

City of Ocala Electric Utility Account Number:

519540-239253

Approved as to form and legality:

DocuSigned by:  
William E. Sexton  
B07D9FC4E88E429...

William E. Sexton  
City Attorney

OCALA ELECTRIC UTILITY  
OCALA, FLORIDA

FIRST REVISED SHEET NO. 20.0  
CANCELS ORIGINAL SHEET NO. 20.0

### Tri-Party Net-Metering Power Purchase Agreement

This Tri-Party Net-Metering Power Purchase Agreement (this "Agreement") is entered into this 3 day of October, 2022, 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 Tabitha Williams, 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)

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

Effective: October 1, 2019

OCALA ELECTRIC UTILITY  
OCALA, FLORIDA  
(Continued from Sheet No. 20.0)

FIRST REVISED SHEET NO. 20.1  
CANCELS ORIGINAL SHEET NO. 20.1

### **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)

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

Effective: October 1, 2019

OCALA ELECTRIC UTILITY  
OCALA, FLORIDA  
(Continued from Sheet No. 20.1)

FIRST REVISED SHEET NO. 20.2  
CANCELS ORIGINAL 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)

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

Effective: October 1, 2019

OCALA ELECTRIC UTILITY  
OCALA, FLORIDA  
(Continued from Sheet No. 20.2)

FIRST REVISED SHEET NO. 20.3  
CANCELS ORIGINAL SHEET NO. 20.3

**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)

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

Effective: October 1, 2019

OCALA ELECTRIC UTILITY  
OCALA, FLORIDA  
(Continued from Sheet No. 20.3)

FIRST REVISED SHEET NO. 20.4  
CANCELS ORIGINAL 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)

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

Effective: October 1, 2019

OCALA ELECTRIC UTILITY  
OCALA, FLORIDA  
(Continued from Sheet No. 20.4)

FIRST REVISED SHEET NO. 20.5  
CANCELS ORIGINAL 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**

**Florida Municipal Power Agency**

By: DocuSigned by:  
Janice Mitchell  
55198B43858A4E1...  
Title: CFO  
Date: 4/24/2023

By: DocuSigned by:  
  
087F58E034B474...  
Title: VP of IT/OT and System Ops  
Date: 4/24/2023

**Customer**  
By: Tabitha A Williams  
(Print Name)  
  
(Signature)

Date: 10/03/2022

Customer's City of Ocala Electric Utility Account Number: 514540-239253

Approved as to form and legality:

DocuSigned by:  
William E. Sexton  
B07DCFC4E89E429...  
William E. Sexton  
City Attorney

(Continued on Sheet No. 20.6)

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

Effective: October 1, 2019

OCALA ELECTRIC UTILITY  
OCALA, FLORIDA  
(Continued from Sheet No. 20.5)

FIRST REVISED SHEET NO. 20.6  
CANCELS ORIGINAL SHEET NO. 20.6

**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.

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

Effective: October 1, 2019





SOLAR LIGHT & MORE  
5640 SW 6TH PLACE, SUITE 400  
OCALA, FL 32675  
PHONE: 352.664681  
EMAIL: kathy@solarlights.com

VERSION	DATE	REV
DESCRIPTION		
INITIAL RELEASE	08/10/2022	UR

PROJECT NAME  
DON AND TABITHA WILLIAMS  
4040 SE 14TH PLACE,  
OCALA, FL 34471 USA  
APN# 2962001009  
UTILITY: OCALA ELECTRIC  
AHJ: MARION COUNTY

SHEET NAME ELECTRICAL LINE DIAGRAM
SHEET SIZE ANSI B 11" X 17"
SHEET NUMBER PV-5

**BILL OF MATERIALS**

EQUIPMENT	QTY	DESCRIPTION
SOLAR PV MODULE	31	MISSION SOLAR MSE415SX6Z (415W) MODULES
INVERTER	31	ENPHASE ENERGY IQBH-240-72-2-US MICRO-INVERTERS
JUNCTION BOX	1	600V, 15A MAX, 4 INPUTS, MOUNTED ON ROOF ARRAY FOR WIRE & CONDUIT TRANSITION
COMBINER BOX	1	ENPHASE IQ COMBINER BOX 4
AC DISCONNECT	1	240VAC, 100A, FUSED AC DISCONNECT WITH 70A FUSES, NEMA 3R, UL LISTED

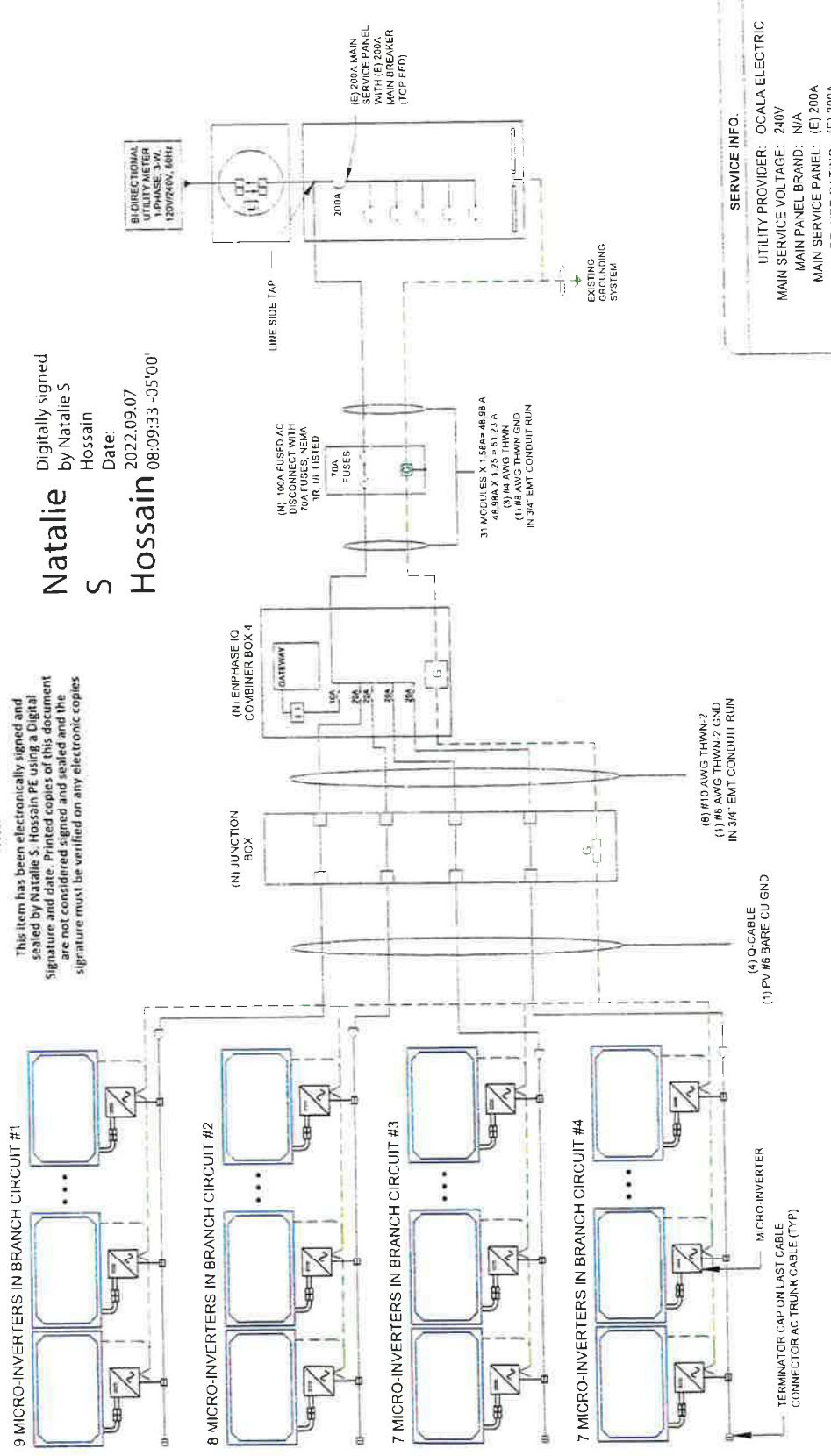
**Natalie S Hossain**  
Digitally signed  
by Natalie S  
Hossain  
Date: 2022.09.07  
08:09:33 -05'00



This item has been electronically signed and sealed by Natalie S. Hossain PE using a Digital Signature and date. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

(31) MISSION SOLAR MSE415SX6Z (415W) MODULES  
(31) ENPHASE ENERGY IQBH-240-72-2-US MICRO-INVERTER  
(01) BRANCH OF 08 MODULES &  
(02) BRANCHES OF 07 MODULES CONNECTED IN PARALLEL PER BRANCH

SYSTEM SIZE:- 31 x 415W = 12.87 KWDC  
SYSTEM SIZE:- 31 x 380W = 11.78 KWAC



**SERVICE INFO.**  
UTILITY PROVIDER: OCALA ELECTRIC  
MAIN SERVICE VOLTAGE: 240V  
MAIN PANEL BRAND: N/A  
MAIN SERVICE PANEL: (E) 200A  
MAIN CIRCUIT BREAKER RATING: (E) 200A  
MAIN SERVICE LOCATION: WEST

**1 ELECTRICAL LINE DIAGRAM**  
SCALE: NTS

# PHOTOVOLTAIC ROOF MOUNT SYSTEM

## 22 MODULES-ROOF MOUNTED - 9.13 KWDC, 8.36 KWAC

### 4040 SE 14TH PLACE, OCALA, FL 34471 USA

- SYSTEM SUMMARY:**
- (N) 22 - MISSION SOLAR M5EAL15SX6Z (415W) MODULES
  - (N) 22 - ENPHASE ENERGY IGH-240-72-2-US MICRO-INVERTERS
  - (N) JUNCTION BOX
  - (E) 200A MAIN SERVICE PANEL WITH (E) 200A MAIN BREAKER
  - (N) 60A FUSED AC DISCONNECT
  - (N) ENPHASE IQ COMBINER BOX 4

**DESIGN CRITERIA:**

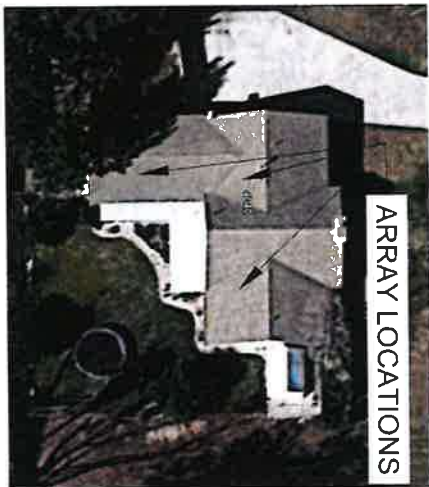
ROOF TYPE: - COMP SHINGLE  
 NUMBER OF LAYERS: - 01  
 ROOF FRAME: - 2"x4" RAFTERS @24" O.C.  
 STORY: - ONE STORY  
 SNOW LOAD: - 0 PSF  
 WIND SPEED: - 130 MPH  
 WIND EXPOSURE: - C

- GOVERNING CODES:**
- 2020 7TH EDITION FLORIDA BUILDING CODE : BUILDING
  - 2020 7TH EDITION FLORIDA BUILDING CODE : RESIDENTIAL
  - 2020 7TH EDITION FLORIDA BUILDING CODE : MECHANICAL
  - 2020 7TH EDITION FLORIDA BUILDING CODE : PLUMBING
  - 2020 7TH EDITION FLORIDA BUILDING CODE : FUEL GAS
  - 2020 7TH EDITION FLORIDA BUILDING CODE : ENERGY CONSERVATION
  - 2020 7TH EDITION FLORIDA BUILDING CODE : EXISTING BUILDING
  - 2020 7TH EDITION FLORIDA BUILDING CODE : ACCESSIBILITY
  - 2020 7TH EDITION FLORIDA FIRE PREVENTION CODE (NFPA)
  - 2017 NATIONAL ELECTRIC CODE (NEC)

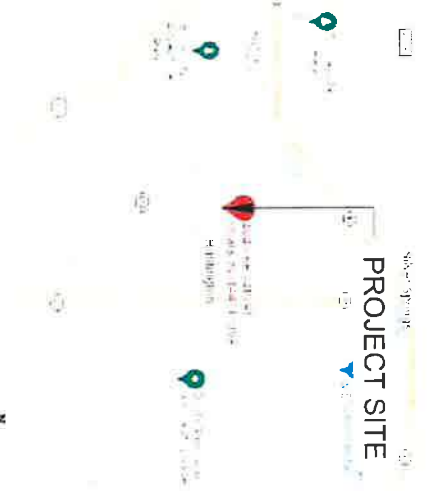
SHEET INDEX	
PV-0	COVER SHEET
PV-1	SITE PLAN WITH ROOF PLAN
PV-2	ROOF PLAN WITH MODULES
PV-3, 1	ROOF ZONING AND ATTACHMENT PLAN
PV-3	ATTACHMENT DETAILS
PV-4	BRANCH LAYOUT
PV-5	ELECTRICAL LINE DIAGRAM
PV-6	ELECTRICAL CALCULATION
PV-7	PLACARDS & WARNING LABELS
PV-8	ADDITIONAL NOTES
PV-9+	EQUIPMENT SPEC SHEETS

**GENERAL NOTES**

- ALL ELECTRICAL WORK SHALL BE PERFORMED BY A QUALIFIED LICENSED ELECTRICIAN AND/OR APPRENTICES WORKING UNDER THE DIRECT SUPERVISION OF THE LICENSED CONTRACTOR.
- ALL WORK CARRIED OUT SHALL COMPLY WITH THE SPECIFICATIONS, APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES, AND APPLICABLE REGULATIONS.
- PRIOR TO COMMENCEMENT OF ANY WORK, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES NOTED AMONG SITE CONDITIONS, MANUFACTURER RECOMMENDATIONS, OR AUTHORITY HAVING JURISDICTION. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER OF RECORD A WRITTEN REQUEST FOR INFORMATION) PROPOSING AN ALTERNATIVE OR SEEKING CLARIFICATION.
- THE CONTRACTOR SHALL MAINTAIN IN GOOD CONDITION ONE COMPLETE SET OF PLANS WITH ALL REVISIONS, ADDENDA, AND CHANGE ORDERS ON THE PREMISES AT ALL TIMES.
- UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, ACCESSORIES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
- ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF WORK.
- THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF WORK AREA. ADJACENT AREAS ARE LIKELY TO BE AFFECTED BY THE WORK UNDER THIS CONTRACT. WORK SHALL CONFORM TO ALL OSHA REQUIREMENTS AND THE LOCAL JURISDICTION.
- WHEN INSTALLING IN FIRE RATED AREAS, SEAL ALL PENETRATIONS WITH UL LISTED MATERIALS APPROVED BY LOCAL JURISDICTION. CONTRACTOR SHALL KEEP AREA CLEAN, HAZARD FREE, AND DISPOSE OF ALL DEBRIS.
- CONTRACTOR SHALL LEAVE PREMISES IN A CLEAN CONDITION. ALL DEBRIS AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A LAWFUL MANNER.
- THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES NOT PART OF THE SCOPE OF WORK AS IDENTIFIED IN THESE PLANS.
- DUE TO THE FACT THAT PV MODULES ARE ENERGIZED WHENEVER THEY ARE EXPOSED TO LIGHT, CONTRACTOR SHALL DISABLE THE ARRAY DURING INSTALLATION AND SERVICE BY SHORT CIRCUITING, OPEN CIRCUITING, OR COVERING ARRAY WITH AN OPAQUE COVER ACCORDING TO MANUFACTURERS INSTRUCTION.



1 | AERIAL PHOTO  
SCALE: NTS

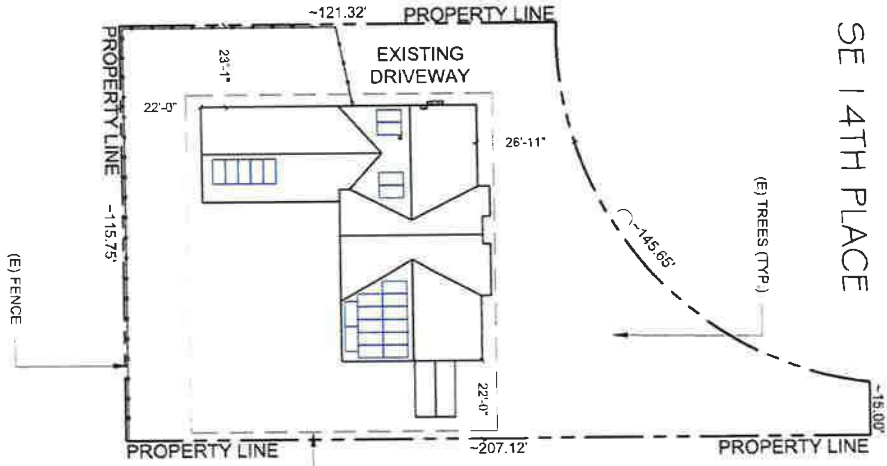


2 | VICINITY MAP  
SCALE: NTS

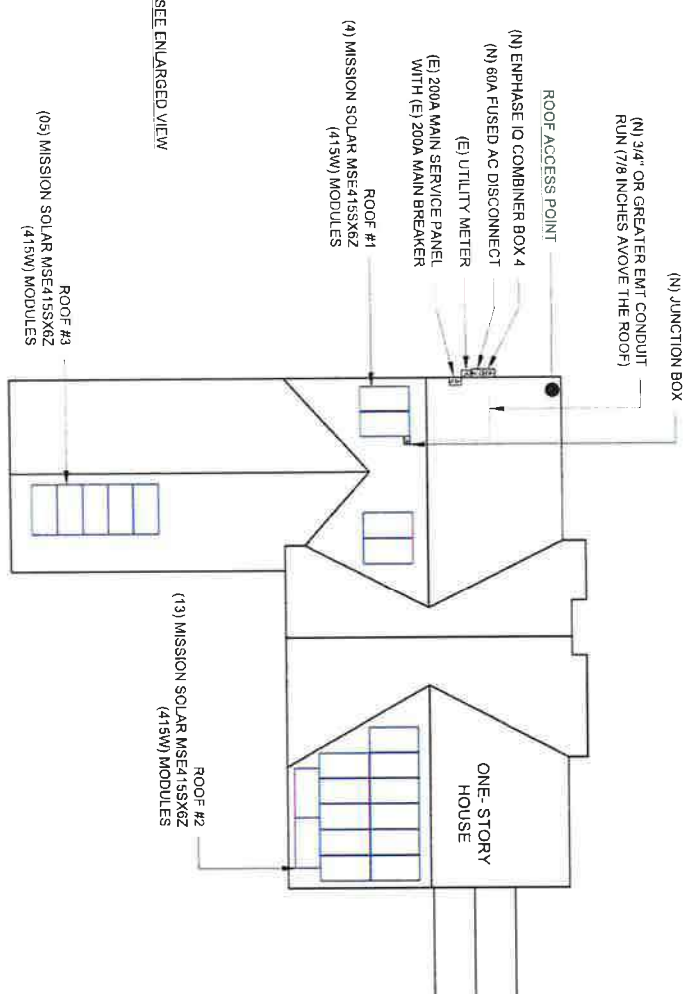


	SOLAR LIGHT & MORE 6640 SW 6TH PLACE, SUITE 100, Ocala, FL 34471 USA CSI: 941 CV756750 PHONE: 3522566661 EMAIL: Kelly@solarlighthe.com	<b>DON AND TABITHA WILLIAMS</b> 4040 SE 14TH PLACE, OCALA, FL 34471 USA APN# 2962001009 UTILITY: OCALA ELECTRIC AHJ: MARION COUNTY	PROJECT NAME PV-0	SHEET NAME COVER SHEET SHEET SIZE ANSI B 11" X 17" SHEET NUMBER PV-0
--	---	---	----------------------	--

● ROOF ACCESS POINT SHALL BE LOCATED IN AREAS THAT DO NOT REQUIRE THE PLACEMENT OF GROUND LADDERS OVER OPENINGS SUCH AS WINDOWS OR DOORS, AND LOCATED AT STRONG POINTS OF BUILDING CONSTRUCTION IN LOCATIONS WHERE THE ACCESS POINT DOES NOT CONFLICT WITH OVERHEAD OBSTRUCTIONS SUCH AS TREE LIMBS, WIRES OR SIGNS.



**1 SITE PLAN WITH ROOF PLAN**  
SCALE: 1/32" = 1'-0"



**1A ENLARGE VIEW**  
SCALE: 1/16" = 1'-0"

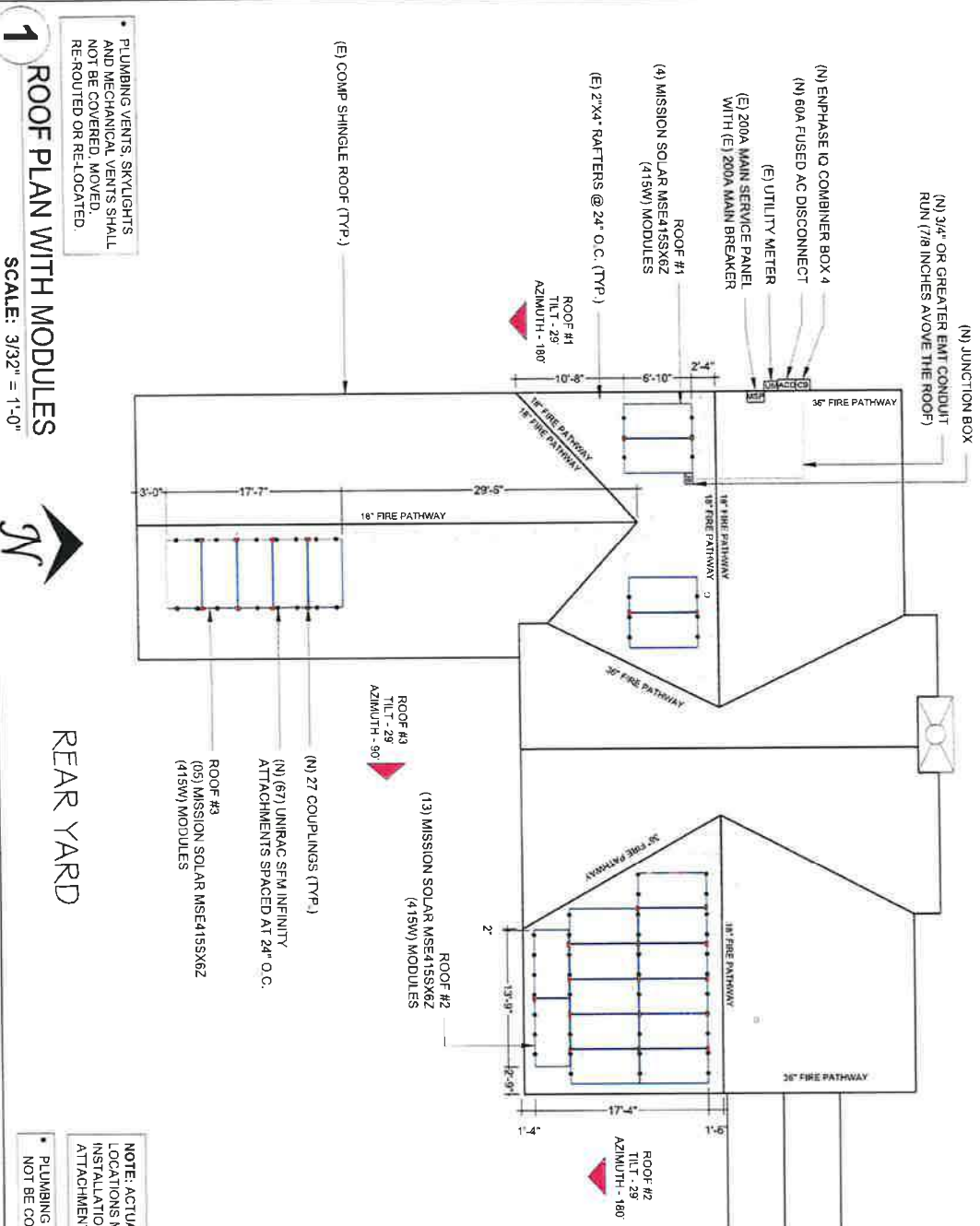


**NOTE:**  
A. ALL ELECTRICAL EQUIPMENT, INVERTERS, DISCONNECTS, MAIN SERVICE PANELS, ETC. SHALL NOT BE INSTALLED WITHIN 3' OF THE GAS METERS SUPPLY OR DEMAND PIPING.

<p><b>Solar Lights</b> SOLAR LIGHT &amp; MORE 5640 SW 47th Ave Suite 400, Ocala, FL 34474 USA CSI, INC. 07/25/17/20 PHONE: 3522664561 EMAIL: kathy@cedarlightinc.com</p>		<p><b>VERSION</b></p> <table border="1"> <thead> <tr> <th>DESCRIPTION</th> <th>DATE</th> <th>REV</th> </tr> </thead> <tbody> <tr> <td>INITIAL RELEASE</td> <td>09/07/2022</td> <td>UR</td> </tr> </tbody> </table>		DESCRIPTION	DATE	REV	INITIAL RELEASE	09/07/2022	UR
DESCRIPTION	DATE	REV							
INITIAL RELEASE	09/07/2022	UR							
<p><b>PROJECT NAME</b></p> <p>DON AND TABITHA WILLIAMS 4040 SE 14TH PLACE, OCALA, FL 34471 USA APN# 2962001009 UTILITY: OCALA ELECTRIC AHJ: MARION COUNTY</p>		<p><b>SHEET NAME</b></p> <p>SITE PLAN WITH ROOF PLAN</p>							
<p><b>SHEET SIZE</b></p> <p>ANSI B 11" X 17"</p>		<p><b>SHEET NUMBER</b></p> <p>PV-1</p>							

**MODULE TYPE, DIMENSIONS & WEIGHT**  
 NUMBER OF MODULES = 22 MODULES  
 MODULE TYPE = MISSION SOLAR MSE415SX6Z (415W) MODULES  
 MODULE WEIGHT = 49 LBS / 22.3 KG.  
 MODULE DIMENSIONS = 82.12" X 41.49" = 23.66 SF

SE 14TH PLACE  
 FRONT YARD



**1 ROOF PLAN WITH MODULES**  
 SCALE: 3/32" = 1'-0"



REAR YARD

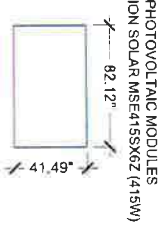
PLUMBING VENTS, SKYLIGHTS AND MECHANICAL VENTS SHALL NOT BE COVERED. MOVED, RE-ROUTED OR RE-LOCATED.

NOTE: ACTUAL ROOF CONDITIONS AND RAFTERS (OR SEAM) LOCATIONS MAY VARY. INSTALL PER MANUFACTURER(S) INSTALLATION GUIDELINES AND ENGINEERED SPANS FOR ATTACHMENTS

PLUMBING VENTS, SKYLIGHTS AND MECHANICAL VENTS SHALL NOT BE COVERED. MOVED, RE-ROUTED OR RE-LOCATED.

**LEGEND**

- UM - UTILITY METER
- MSP - MAIN SERVICE PANEL
- ACD - AC DISCONNECT
- CB - COMBINER BOX 4
- JTB - JUNCTION BOX
- VF - VENT, ATTIC FAN (ROOF OBSTRUCTION)
- RA - RAFTERS
- CON - CONDUIT
- FP - FIRE PATHWAY



ARRAY AREA & ROOF AREA CALC'S			
ROOF #	# OF MODULES	ARRAY AREA (Sq. Ft.)	ROOF AREA COVERED BY ARRAY (%)
#1	4	94.64	392.41
#2	13	307.59	444.24
#3	05	118.30	587.20
			20.15

ROOF DESCRIPTION			
ROOF #	ROOF TYPE	COMP. SHINGLE ROOF	RAFTERS SPACING
#1	29°	2"x4"	24" O.C.
#2	29°	2"x4"	24" O.C.
#3	29°	2"x4"	24" O.C.

**Solar Lights**  
 SOLAR LIGHT & MORE  
 5640 SW 6TH PLACE, SUITE 400,  
 OCALA, FL 34474 USA  
 CSLB# CVCS6750  
 PHONE: 3522664881  
 EMAIL: [kathy@solarlights.com](mailto:kathy@solarlights.com)

**VERSION**

DESCRIPTION	DATE	REV
INITIAL RELEASE	09/12/2022	1/1

**DON AND TABITHA WILLIAMS**  
 4040 SE 14TH PLACE,  
 OCALA, FL 34471 USA  
 APN# 2962001009  
 UTILITY: OCALA ELECTRIC  
 AHJ: MARION COUNTY

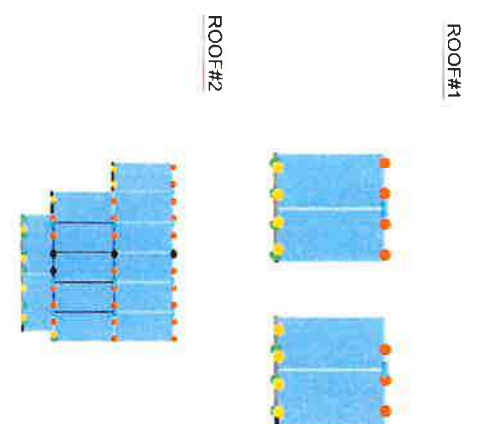
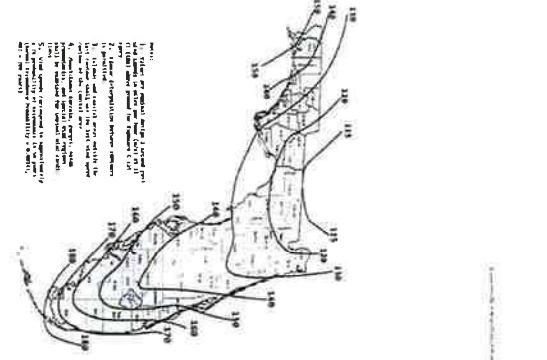
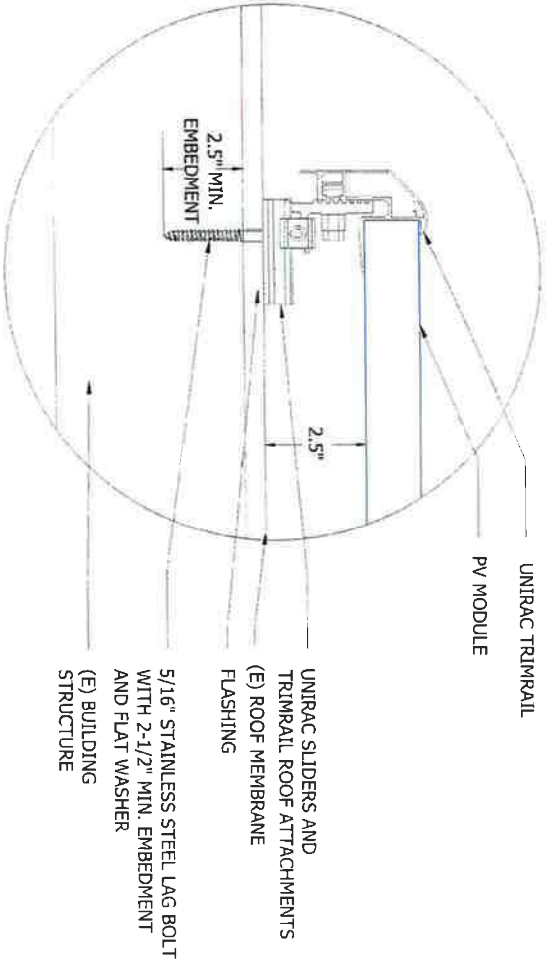
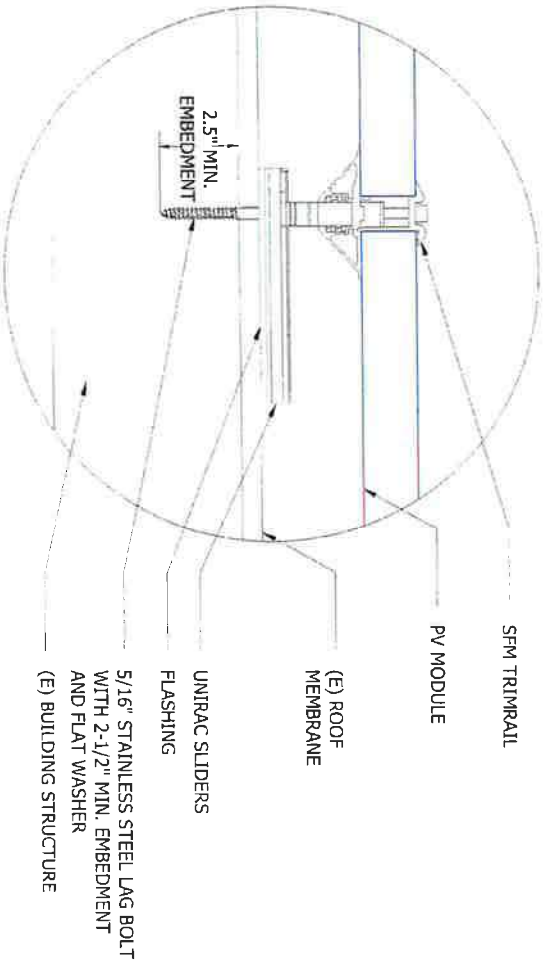
PROJECT NAME  
DON AND TABITHA WILLIAMS

SHEET NAME  
ROOF PLAN WITH MODULES

SHEET SIZE  
ANSI B  
11" X 17"

SHEET NUMBER  
**PV-2**

**ROOF MOUNTING DETAILS**  
SCALE: NTS



1. All dimensions are in inches unless otherwise noted.  
 2. All dimensions are to the center of the member unless otherwise noted.  
 3. All dimensions are to the center of the member unless otherwise noted.  
 4. All dimensions are to the center of the member unless otherwise noted.  
 5. All dimensions are to the center of the member unless otherwise noted.  
 6. All dimensions are to the center of the member unless otherwise noted.  
 7. All dimensions are to the center of the member unless otherwise noted.  
 8. All dimensions are to the center of the member unless otherwise noted.  
 9. All dimensions are to the center of the member unless otherwise noted.  
 10. All dimensions are to the center of the member unless otherwise noted.

Figure 1 shows the roof details for the roof. The roof is a gable roof with a pitch of 12/12. The roof is covered with asphalt/fluorene shingles. The roof is supported by a wood frame structure. The roof is attached to the building structure with metal brackets and bolts. The roof is finished with a metal cap sheet.

	
SOLAR LIGHT & MORE 5640 SW 6TH PLACE, SUITE 400, OCALA, FL 34474 USA OCSLW GVS8750 PHONE: 3522804651 EMAIL: KATHY@SOLARLIGHTS.COM	
VERSION	DATE
DESCRIPTION	REV
INITIAL RELEASE	09/21/2022
UR	
PROJECT NAME	
DON AND TABITHA WILLIAMS 4040 SE 14TH PLACE, OCALA, FL 34471 USA APN# 2962001009 UTILITY: OCALA ELECTRIC AHJ: MARION COUNTY	
SHEET NAME	
ATTACHMENT DETAIL	
SHEET SIZE	
ANSI B	
1" X 17"	
SHEET NUMBER	
PV-3	

**MODULE TYPE, DIMENSIONS & WEIGHT**

NUMBER OF MODULES = 22 MODULES  
 MODULE TYPE = MISSION SOLAR MSE415SX6Z (415W) MODULES  
 MODULE WEIGHT = 49 LBS / 22.3 KG  
 MODULE DIMENSIONS = 82.12" X 41.49" = 23.66 SF  
 UNIT WEIGHT OF ARRAY = 2.07 PSF

**ROOF LAYOUT NOTE**  
 ROOF/SOLAR PANEL LAYOUT IS CONCEPTUAL, BUT AS PROVIDED, CONFORMS WITH THE REQUIREMENTS SET IN SHEET PV-3. CONTRACTOR MAY ADJUST PANEL LOCATION, SOLID CORNERS (4X4) SHOWN THE PLAN IS WIND ZONE 3. SEE 2020 FLORIDA RESIDENTIAL CODE (7TH EDITION) FOR MORE DETAILS

APPLICABLE CODE: 2020 FLORIDA BUILDING CODE (7TH EDITION) & ASCE 7-18 MINIMUM DESIGN LOADS FOR BUILDING AND OTHER STRUCTURES.

LAG SCREW DIAMETER AND EMBEDMENT LENGTHS ARE DESIGNED PER 2020 FLORIDA BUILDING CODE (7TH EDITION). REQUIREMENTS ALL BOLT CAPACITIES ARE BASED ON A SOUTHER YELLOW PINE (SYP) RESIDENTIAL WOOD ROOF RAFTERS AS EMBEDMENT MATERIAL.

ALL WIND DESIGN CRITERIA AND PARAMETERS ARE FOR HIP AND GABLE RESIDENTIAL ROOFS, CONSIDERING FROM A7" TO A MAXIMUM 23" (7/12 TO A MAXIMUM 7/12 PITCH) ROOF IN SCHEDULE. CONTRACTOR TO FIELD VERIFY THAT MEAN ROOF HEIGHT DOES NOT EXCEED 30'-0".

ROOF SEALANTS SHALL CONFORM TO ASTM C920 AND ASTM 6911, AND IS THE RESPONSIBILITY OF THE CONTRACTOR TO PILOT DRILL AND FILL ALL HOLES.

ALL DISSIMILAR MATERIALS SHALL BE SEPARATED WITH NEOPRENE WASHERS, PADS, ETC OR SIMILAR.

ALL ALUMINUM COMPONENTS SHALL BE ANODIZED ALUMINUM 6105-15 UNLESS OTHERWISE NOTED.

ALL LAG SCREW SHALL BE ASTM A276 STAINLESS STEEL UNLESS OTHERWISE NOTED.

ALL SOLAR RAILING AND MODULES SHALL BE INSTALLED PER MANUFACTURER INSTRUCTIONS.

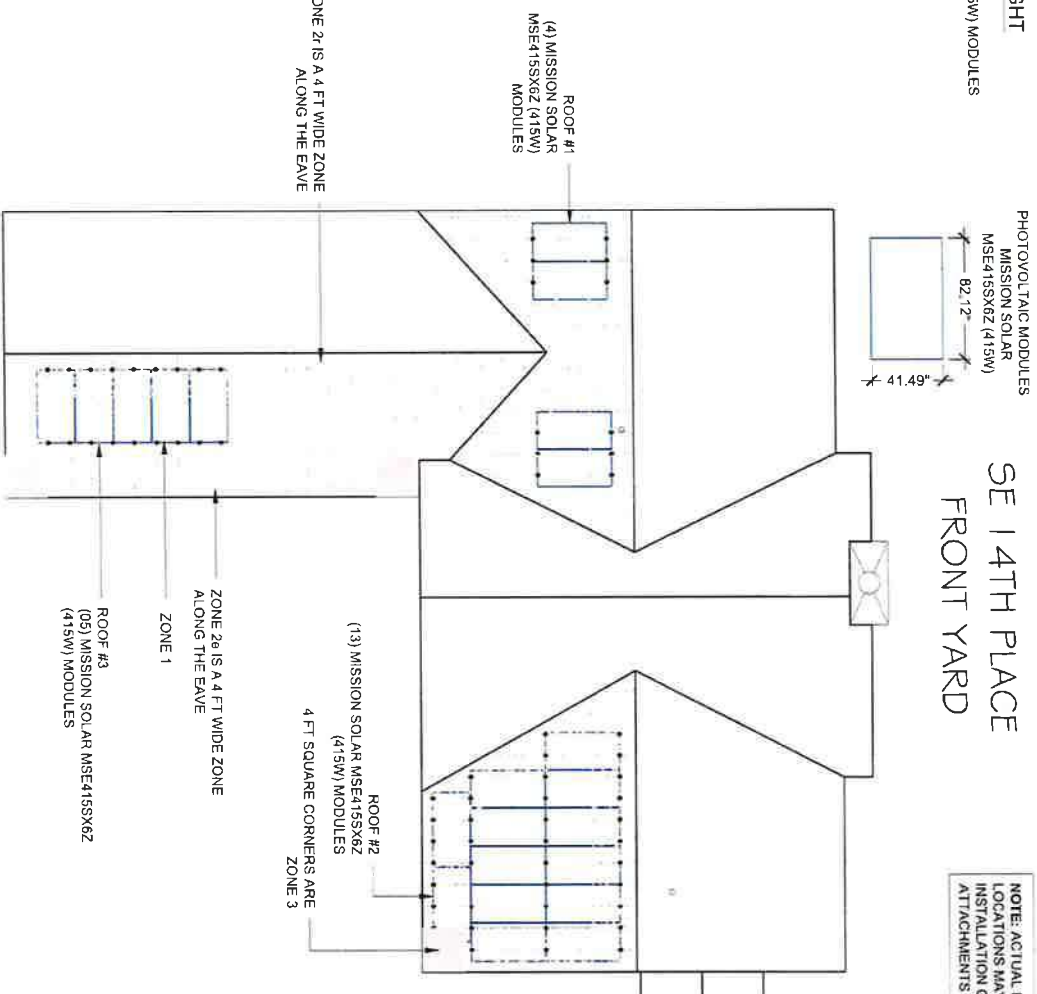
CONTRACTOR SHALL ENSURE ALL ROOF PENETRATIONS TO BE INSTALLED AND SEALED PER 2020 FLORIDA BUILDING CODE (7TH EDITION) OR LOCAL GOVERNING CODE.

**NOTE TO INSTALLER:**  
 NOTE FIELD ADJUSTMENTS CAN BE MADE TO THE LAYOUT OF THE ARRAY.

PLUMBING VENTS, SKYLIGHTS AND MECHANICAL VENTS SHALL NOT BE COVERED, MOVED, RE-ROUTED OR RELOCATED.

**1 ROOF ZONING AND ATTACHMENT**

SCALE: 3/32" = 1'-0"



**NOTE: ACTUAL ROOF CONDITIONS AND RAFTERS (OR SEAM) LOCATIONS MAY VARY. INSTALL PER MANUFACTURER(S) INSTALLATION GUIDELINES AND ENGINEERED SPANS FOR ATTACHMENTS**

ROOF ZONES	
WIND ZONE 1	3.85
WIND ZONE 2a	41.26
WIND ZONE 2b	31.09
CORNER WIND ZONE 3	40.53

- WIND ZONE  
 - CORNER WIND ZONE



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VERSION	
DESCRIPTION	DATE
INITIAL RELEASE	09/12/2021

**PROJECT NAME**  
 DON AND TABITHA WILLIAMS  
 4040 SE 14TH PLACE,  
 OCALA, FL 34471 USA  
 APN# 2962001009  
 UTILITY: OCALA ELECTRIC  
 AHJ: MARION COUNTY

**SHEET NAME**  
 ROOF PLAN ZONING  
 AND ATTACHMENT  
 PLAN

**SHEET SIZE**  
 ANSII B  
 11" X 17"

**SHEET NUMBER**  
 PV-3.1



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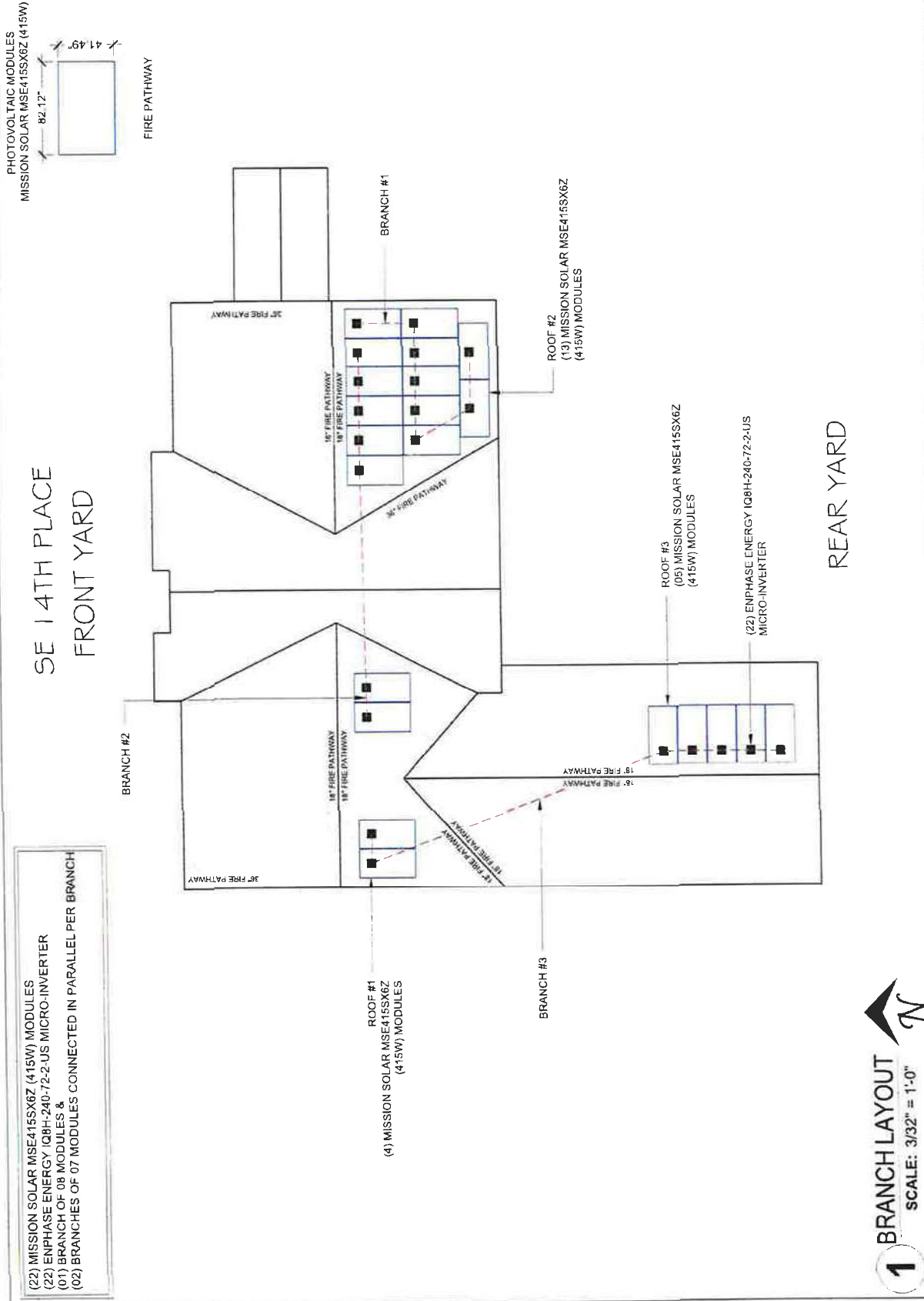
VERSION	DATE	REV
INITIAL RELEASE	08/15/2022	UR

PROJECT NAME  
DON AND TABITHA WILLIAMS  
4040 SE 14TH PLACE,  
OCALA, FL 34471 USA  
APN# 2962001009  
UTILITY: OCALA ELECTRIC  
AHJ: MARION COUNTY

SHEET NAME  
BRANCH LAYOUT

SHEET SIZE  
ANSI B  
11" X 17"

SHEET NUMBER  
PV-4



**1** BRANCH LAYOUT  
SCALE: 3/32" = 1'-0"

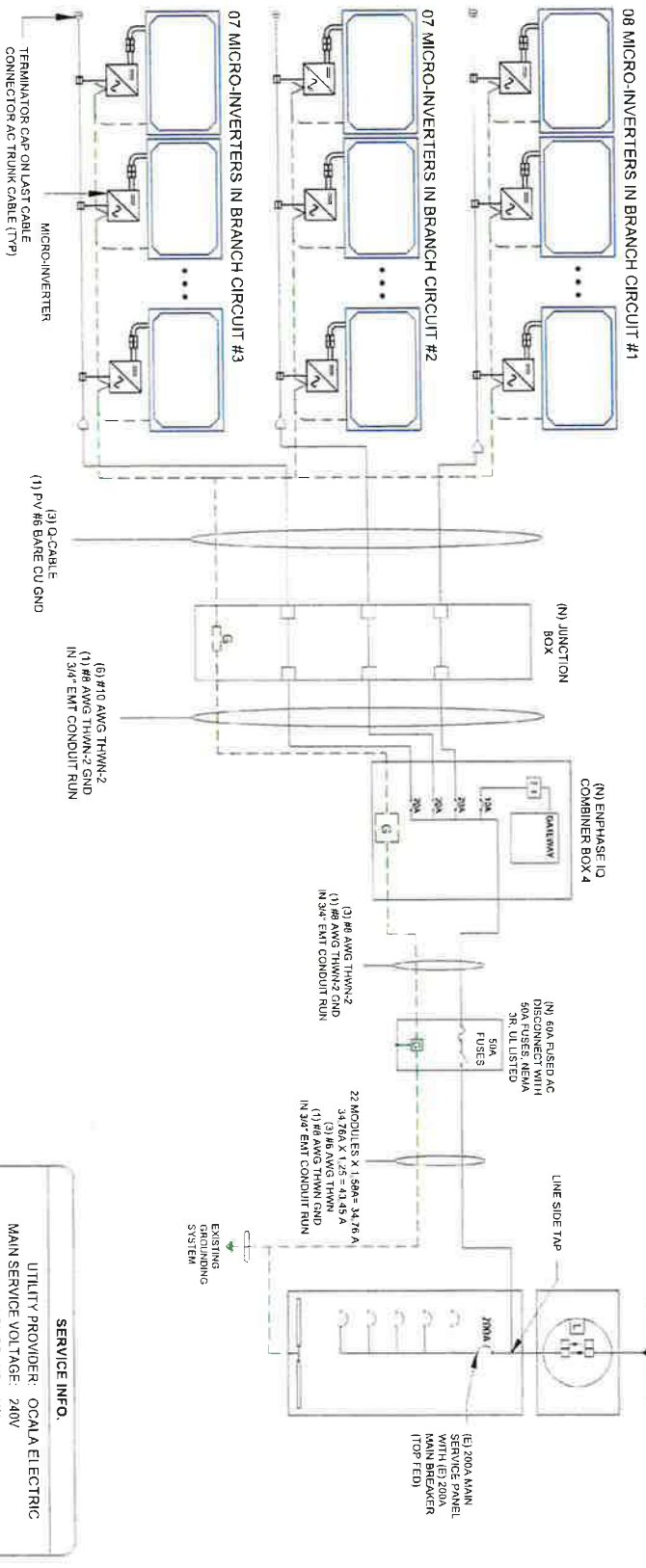


(22) MISSION SOLAR MSE415SXGZ (415W) MODULES  
 (22) ENPHASE ENERGY IQBH-240-72-2-US MICRO-INVERTER  
 (01) BRANCH OF 08 MODULES &  
 (02) BRANCHES OF 07 MODULES CONNECTED IN PARALLEL PER BRANCH

SYSTEM SIZE: 22 x 415W = 9.13 KWDC  
 SYSTEM SIZE: 22 x 380W = 8.36 KWAC

EQUIPMENT		QTY	DESCRIPTION
SOLAR PV MODULE	22	MISSION SOLAR MSE415SXGZ (415W) MODULES	
INVERTER	22	ENPHASE ENERGY IQBH-240-72-2-US MICRO-INVERTERS	
JUNCTION BOX	1	600V, SSA MAX, 4 INPUTS, MOUNTED ON ROOF ARRAY FOR WIRE & CONDUIT TRANSITION	
COMBINER BOX	1	ENPHASE IQ COMBINER BOX 4	
AC DISCONNECT	1	240VAC, 60A FUSED AC DISCONNECT WITH 50A FUSES, NEMA 3R, UL LISTED	

**BILL OF MATERIALS**



**1 ELECTRICAL LINE DIAGRAM**  
 SCALE: NTS

**SERVICE INFO.**  
 UTILITY PROVIDER: Ocala Electric  
 MAIN SERVICE VOLTAGE: 240V  
 MAIN PANEL BRAND: N/A  
 MAIN SERVICE PANEL: (E) 200A  
 MAIN CIRCUIT BREAKER RATING: (E) 200A  
 MAIN SERVICE LOCATION: WEST

**Solar Lights**  
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 CSL#B: CV56750  
 PHONE: 3528264661  
 EMAIL: Kelly@solarlightsinc.com

**VERSION**  
 DESCRIPTION: DATE: REV  
 INITIAL RELEASE: 08/2022: UN

**DON AND TABITHA WILLIAMS**  
 4040 SE 14TH PLACE,  
 Ocala, FL 34471 USA  
 APN# 2962001009  
 UTILITY: Ocala Electric  
 AHJ: Marion County

SHEET NAME: ELECTRICAL LINE DIAGRAM

SHEET SIZE: ANSIB  
 11" X 17"

SHEET NUMBER: PV-5

PROJECT NAME

UTILITY PROVIDER: Ocala Electric  
 MAIN SERVICE VOLTAGE: 240V  
 MAIN PANEL BRAND: N/A  
 MAIN SERVICE PANEL: (E) 200A  
 MAIN CIRCUIT BREAKER RATING: (E) 200A  
 MAIN SERVICE LOCATION: WEST

SOLAR MODULE SPECIFICATIONS	
MANUFACTURER / MODEL #	MISSION SOLAR MSE415SXZ (415W)MODULES
VMP	40.09
IMP	10.35
VOC	48.91
ISC	10.91
MODULE DIMENSION	82.12" L x 41.49" W x 1.57" D (in inch)
INVERTER SPECIFICATIONS	
MANUFACTURER / MODEL #	ENPHASE ENERGY IQBH240-72-24US
NOMINAL OUTPUT VOLTAGE	240 VAC
NOMINAL OUTPUT CURRENT	1.58A
AMBIENT TEMPERATURE SPECS	
WEATHER STATION: OCALA MUNI (AWOS)	
RECORDED LOW TEMP	-6°
AMBIENT TEMP (HIGH TEMP 2%)	34°
CONDUIT HEIGHT	0.97'
ROOF TOP TEMP	34°
CONDUCTOR TEMPERATURE RATE (ON ROOF)	90°
CONDUCTOR TEMPERATURE RATE (OFF ROOF)	75°
MODULE TEMPERATURE COEFFICIENT OF V <sub>OC</sub>	-0.26%/°C
PERCENT OF VALUES	
	NUMBER OF CURRENT CARRYING CONDUCTORS IN EMT
.80	4-6
.70	7-9
.50	10-20

**AC CONDUCTOR AMPACITY CALCULATIONS:  
FROM JUNCTION BOX TO ENPHASE IQ COMBINER BOX 4:**

EXPECTED WIRE TEMP (°C): 34°  
 TEMP CORRECTION PER TABLE 310.15(B)(2)(a): 0.96  
 # OF CURRENT CARRYING CONDUCTORS: 8  
 CONDUIT FILL PER NEC 310.15(B)(3)(a): 0.70  
 CIRCUIT CONDUCTOR SIZE: 10 AWG  
 CIRCUIT CONDUCTOR AMPACITY: 40A  
 REQUIRED CIRCUIT CONDUCTOR AMPACITY PER NEC 690.8(A)(8):  
 1.25 X # MICRO-INVERTERS (MAX BRANCH LENGTH) X MAX OUTPUT CURRENT  
 1.25 X 08 X 1.58A = 15.80A  
 DERATED AMPACITY OF CIRCUIT CONDUCTORS PER NEC TABLE 310.15(B)(2)(a)  
 TEMP CORR PER NEC TABLE 310.15(B)(2)(a) X  
 CONDUIT FILL CORR PER NEC 310.15(B)(3)(a) X  
 CIRCUIT CONDUCTOR AMPACITY =  
 0.96 X 0.70 X 40 = 26.88A  
 RESULT SHOULD BE GREATER THAN (15.80A) OTHERWISE LESS THE  
 ENTRY FOR CIRCUIT CONDUCTOR SIZE AND AMPACITY

**AC CONDUCTOR AMPACITY CALCULATIONS:  
FROM AC DISCONNECT TO INTERCONNECTION:**

# OF INVERTERS: 22  
 EXPECTED WIRE TEMP (°C): 34°  
 TEMP CORRECTION PER TABLE 310.15(B)(2)(a): 0.94  
 # OF CURRENT CARRYING CONDUCTORS: 3  
 CONDUIT FILL PER NEC 310.15(B)(3)(a): 1.0  
 CIRCUIT CONDUCTOR SIZE: 6 AWG  
 CIRCUIT CONDUCTOR AMPACITY: 65A  
 REQUIRED CIRCUIT CONDUCTOR AMPACITY PER NEC 690.8(B):  
 1.25 X # MICRO-INVERTERS X MAX OUTPUT CURRENT =  
 1.25 X 1.58 X 22 = 43.45A  
 DERATED AMPACITY OF CIRCUIT CONDUCTORS PER NEC TABLE 310.15(B)(2)(a)  
 TEMP CORR PER NEC TABLE 310.15(B)(2)(a) X  
 CONDUIT FILL CORR PER NEC 310.15(B)(3)(a) X  
 CIRCUIT CONDUCTOR AMPACITY =  
 0.94 X 1.0 X 65 = 61.1A  
 RESULT SHOULD BE GREATER THAN (43.45A) OTHERWISE LESS THE  
 ENTRY FOR CIRCUIT CONDUCTOR SIZE AND AMPACITY


**AC CONDUCTOR AMPACITY CALCULATIONS:  
FROM ENPHASE IQ COMBINER BOX 4 TO AC DISCONNECT:**

# OF INVERTERS: 22  
 EXPECTED WIRE TEMP (°C): 34°  
 TEMP CORRECTION PER TABLE 310.15(B)(2)(a): 0.94  
 # OF CURRENT CARRYING CONDUCTORS: 3  
 CONDUIT FILL PER NEC 310.15(B)(3)(a): 1.0  
 CIRCUIT CONDUCTOR SIZE: 8 AWG  
 CIRCUIT CONDUCTOR AMPACITY: 50A  
 REQUIRED CIRCUIT CONDUCTOR AMPACITY PER NEC 690.8(B):  
 1.25 X # MICRO-INVERTERS X MAX OUTPUT CURRENT =  
 1.25 X 1.58 X 22 = 43.45A  
 DERATED AMPACITY OF CIRCUIT CONDUCTORS PER NEC TABLE 310.15(B)(2)(a)  
 TEMP CORR PER NEC TABLE 310.15(B)(2)(a) X  
 CONDUIT FILL CORR PER NEC 310.15(B)(3)(a) X  
 CIRCUIT CONDUCTOR AMPACITY =  
 0.94 X 1.0 X 50 = 47A  
 RESULT SHOULD BE GREATER THAN (43.45A) OTHERWISE LESS THE  
 ENTRY FOR CIRCUIT CONDUCTOR SIZE AND AMPACITY

**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 90° 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 ACCESSORIES TO FULLY APPLY 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 WEBB LUG OR LSC0 (86L-4DB1) LAY-IN LUGS.
- 10) THE POLARITY OF THE GROUNDED CONDUCTORS IS NEGATIVE

**1 ELECTRICAL CALCULATION**  
SCALE: NTS



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**DON AND TABITHA WILLIAMS**  
 4040 SE 14TH PLACE,  
 OCALA, FL 34471 USA  
 APN# 2962001009  
 UTILITY: OCALA ELECTRIC  
 AHJ: MARION COUNTY

PROJECT NAME

SHEET NAME  
ELECTRICAL  
CALCULATION

SHEET SIZE  
ANSI B  
11" X 17"

SHEET NUMBER  
PV-6

VERSION	DESCRIPTION	DATE	REV
	INITIAL RELEASE	08/11/2022	UR

**WARNING**  
**ELECTRIC SHOCK HAZARD**  
 TERMINALS ON THE LINE AND LOAD  
 SIDES MUST BE KEPT IN THE  
 OPEN POSITION

LABEL LOCATION:  
 AC & DC DISCONNECT AND SUB PANEL  
 (PER CODE: NEC 690.13(B))

**WARNING** *Panel Power Exceeds  
 Second Source's Photovoltaic System*  
 LABEL LOCATION:  
 MAIN SERVICE PANEL & NET METER  
 (PER CODE: NEC 705.12(D)(3), NEC  
 705.12(B)(3-4) & NEC 690.58)

**PHOTOVOLTAIC  
 AC DISCONNECT**

LABEL LOCATION:  
 AC DISCONNECT  
 (PER CODE: NEC 690.13(B))

**RAPID SHUTDOWN SWITCH  
 FOR SOLAR PV SYSTEM**

LABEL LOCATION:  
 RAPID SHUTDOWN  
 (PER CODE: NEC 690.56(C)(3))

**WARNING**  
 IN CASE OF EMERGENCY, CONTACT  
 KEVIN MCMONIGLE  
 PH NO. 352-690-9664  
 ADDRESS: 5640 SW 6TH PLACE, SUITE  
 400, OCALA, FLORIDA, 34474

LABEL LOCATION:  
 MAIN DISCONNECT  
 (PER CODE: NFPA 11.12.2.1.5)

**PHOTOVOLTAIC SYSTEM AC DISCONNECT  
 RATED AC OPERATING CURRENT 34.76 AMPS  
 AC NOMINAL OPERATING VOLTAGE 240 VOLTS**

LABEL LOCATION:  
 AC DISCONNECT & INVERTER  
 (PER CODE: NEC 690.54)

**WARNING**  
**POWER SOURCE OUTPUT  
 CONNECTION  
 DO NOT RELOCATE THIS  
 OVERCURRENT DEVICE**

LABEL LOCATION:  
 SERVICE PANEL IF SUM OF BREAKERS EXCEEDS  
 PANEL RATING  
 (PER CODE: NEC 705.12 (B)(2)(3)(b))

**WARNING: PHOTOVOLTAIC  
 POWER SOURCE**

LABEL LOCATION:  
 EMT / CONDUIT RACEWAYS  
 (PER CODE: NEC 690.31(G)(3))

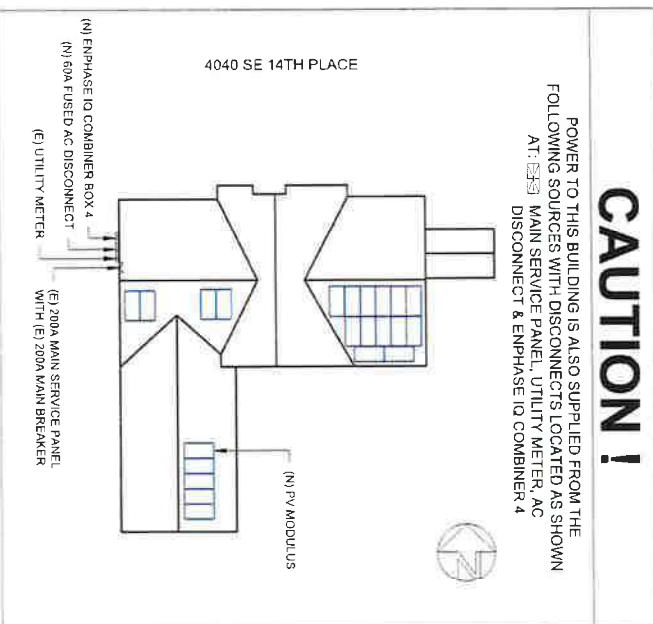
**MAIN PHOTOVOLTAIC  
 SYSTEM DISCONNECT**

LABEL LOCATION:  
 MAIN SERVICE DISCONNECT / UTILITY METER  
 (PER CODE: NEC 690.13(B))

**SOLAR PV SYSTEM EQUIPPED  
 WITH RAPID SHUTDOWN**

TURN RAPID  
 SHUTDOWN SWITCH  
 TO THE "OFF" POSITION  
 TO SHUTDOWN PV  
 SYSTEM AND REDUCE  
 SHOCK HAZARD IN  
 ARRAY

LABEL LOCATION:  
 AC DISCONNECT, DC DISCONNECT, POINT OF  
 INTERCONNECTION  
 (PER CODE: 690.11.3, (1) & 690.56(C)(1)(a))



**CAUTION!**

**Solar Lights**  
INSTALLERS OF THE BEST

SOLAR LIGHT & MORE  
 5640 SW 6TH PLACE, SUITE 400,  
 OCALA, FL 34474 USA  
 CSL#B1 CVC58730  
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 EMAIL: Kelly@solarlighthe.com

VERSION

DESCRIPTION	DATE	REV
INITIAL RELEASE	09/21/2022	1R

**DON AND TABITHA WILLIAMS**  
 4040 SE 14TH PLACE,  
 OCALA, FL 34471 USA  
 APN# 2962001009  
 UTILITY: OCALA ELECTRIC  
 AHJ: MARION COUNTY

SHEET NAME  
**WARNING LABELS**

SHEET SIZE  
**ANSI B  
 11" X 17"**

SHEET NUMBER  
**PV-7**

1. EACH MODULE TO BE GROUNDED USING THE SUPPLIED CONNECTION POINT PER MANUFACTURER'S REQUIREMENTS. ALL SOLAR MODULES, EQUIPMENT, AND METALLIC COMPONENTS ARE TO BE BONDED. IF THE EXISTING GROUNDING ELECTRODE SYSTEM CAN NOT BE VERIFIED OR IS ONLY METALLIC WATER PIPING, IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSTALL A SUPPLEMENTAL GROUNDING ELECTRODE.
2. ALL PLAQUES AND SIGNAGE REQUIRED BY THE LATEST EDITION OF NATIONAL ELECTRICAL CODE. LABEL SHALL BE METALLIC OR PLASTIC, ENGRAVED OR MACHINE PRINTED IN A CONTRASTING COLOR TO THE PLAQUE. PLAQUE SHALL BE UV RESISTANT IF EXPOSED TO SUNLIGHT.
3. DC CONDUCTORS SHALL BE RUN IN EMT AND SHALL BE LABELED, "CAUTION DC CIRCUIT" OR EQUIV. EVERY 5 FT.
4. EXPOSED NON-CURRENT CARRYING METAL PARTS OF ELECTRICAL EQUIPMENT SHALL BE GROUNDED IN ACCORDANCE WITH 250.134 OR 250.136(A).
5. CONFIRM LINE SIDE VOLTAGE AT ELECTRIC UTILITY SERVICE PRIOR TO CONNECTING INVERTER. VERIFY SERVICE VOLTAGE IS WITHIN INVERTER VOLTAGE OPERATIONAL RANGE.
6. OUTDOOR EQUIPMENT SHALL BE NEMA-3R RATED OR BETTER.
7. ELECTRICAL CONTRACTOR TO PROVIDE CONDUIT EXPANSION JOINTS AND ANCHOR CONDUIT RUNS AS REQUIRED PER NEC.
8. ALL WIRING MUST BE PROPERLY SUPPORTED BY DEVICES OR MECHANICAL MEANS DESIGNED AND LISTED FOR SUCH USE, AND FOR GROUND-MOUNTED SYSTEMS, WIRING MUST BE PERMANENTLY AND COMPLETELY HELD OFF OF THE GROUND. NEC 110.2 - 110.4 / 300.4



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VERSION		DESCRIPTION	DATE	REV
INITIAL RELEASE	08/31/2022		UR	

PROJECT NAME

DON AND TABITHA WILLIAMS  
 4040 SE 14TH PLACE,  
 OCALA, FL 34471 USA  
 APN# 2962001009  
 UTILITY: OCALA ELECTRIC  
 AHJ: MARION COUNTY

SHEET NAME

ADDITIONAL NOTES

SHEET SIZE  
 ANSI B  
 11" X 17"

SHEET NUMBER  
 PV-8

MSE PERC 72

MISSION SOLAR ENERGY



415W

Class leading power output -0 to +3%

True American Quality  
True American Brand

Mission Solar Energy is headquartered in San Antonio, Texas where we manufacture our modules. We produce American high-quality solar modules ensuring the highest-class power output and best-in-class reliability. Our product line is tailored for residential, commercial and utility applications. Every Mission Solar Energy solar module is certified and surpasses industry standard regulations, proving excellent performance over the long term. Demand the best. Demand Mission Solar Energy.

**FRAME-TO-FRAME WARRANTY**

Every additional year of warranty is provided for an additional 2% in power over and 0.38% annually. Items are limited to 30 years. See 2018 Regulatory Requirements, page 25 for more information. Visit [www.missionsolar.com/warranty](http://www.missionsolar.com/warranty)

**CERTIFICATIONS**

CEC  
UL LISTED  
If you have questions or concerns about our products in your area, please contact Mission Solar Energy.

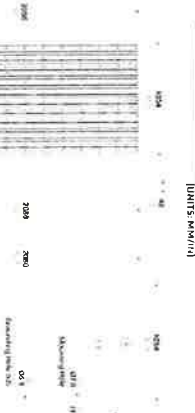


- Certified Reliability**
  - Inherent UL 6720x IEC Standards
  - Redundant cell and connection
- Advanced Technology**
  - 8 Busbars
  - 4000+ Hours Power Factor
  - Superior cell organizations
- Extreme Weather Resilience**
  - Up to 10000 hours of hail (3.0007) test case
  - 40mm hail
- BAA Compliant for Government Projects**
  - Buy American Act
  - Approved by the Department of Energy

Class Leading  
410-420W

MSE PERC 72

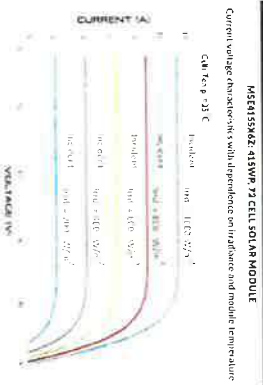
**BASIC DIMENSIONS**



**ELECTRICAL SPECIFICATION**

Parameter	Value	Unit
Power Output	415W	W
Module Efficiency	18.6%	%
Short Circuit Current	10.05	A
Open Circuit Voltage	40.30	V
Rated Current	10.28	A
Rated Voltage	37.80	V
System Voltage	1.500	V

**CURRENT-VOLTAGE CURVE**



**TEMPERATURE COEFFICIENTS**

Maximum Operating Cell Temperature (NOCT)	44.67°C (112.41°F)
Temperature Coefficient of Pmax	-0.33%/°C
Temperature Coefficient of Voc	0.281%/°C
Temperature Coefficient of Isc	0.0146%/°C

**OPERATING CONDITIONS**

Maximum System Voltage	1.500kVdc
Maximum Temperature Range	-40°C (-40°F) to 85°C (185°F)
Maximum Snow Load	20kPa
Fire Safety Classification	Class 1
Front Glass Thickness	3.2mm (0.126")
Back Sheet Thickness	0.5mm (0.020")
Half-Safety Impact Velocity	23m/s (47.4 mph)

**MECHANICAL DATA**

Cell Orientation	72 cells (6x12)
Module Dimension	2088mm x 1050mm x 40mm
Weight	22.4kg (49.4 lbs)
Front Glass	3.2mm, tempered, low-iron, anti-reflective
Frame	Anodized
Encapsulant	Ethylene vinyl acetate (EVA)
Backsheet	Protection class IEC 61730 Class II
Cells	176mm x 105mm (6.93" x 4.13")
Connectors	MC4, Rated 05.0

**SHIPPING INFORMATION**

Parameter	Value	Unit
Carrier Fee	980.00	USD
Weight	22.4	kg
Volume	0.12	m³
Dimensions	2088 x 1050 x 40	mm

MISSION SOLAR ENERGY  
8303 S. New Braunfels Ave. San Antonio, Texas 78235  
[www.missionsolar.com](http://www.missionsolar.com)

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6640 SW 6TH PLACE, SUITE 400,  
OCALA, FL 34474 USA  
CSI: BM CVCS6749  
PHONE: 352.286.6681  
EMAIL: [Kathy@SolarLightInc.com](mailto:Kathy@SolarLightInc.com)



VERSION	DESCRIPTION	DATE	REV
INITIAL RELEASE	08/07/2012	UR	

PROJECT NAME  
DON AND TABITHA WILLIAMS  
4040 SE 14TH PLACE,  
OCALA, FL 34471 USA  
APN# 2962001009  
UTILITY: OCALA ELECTRIC  
AHJ: MARION COUNTY

SHEET NAME  
SHEET NUMBER  
ANSI B  
11" X 17"  
SHEET SIZE  
P.V.-9



Enphase Lighting

# Enphase IQ Combiner 4/4C

X-IQ-AM1-240-4  
X-IQ-AM1-240-4C

The **Enphase IQ Combiner 4/4C** with Enphase IQ Gateway and integrated LED light receiver (included only with IQ Combiner 4C) consolidates micro-converter capabilities into a single package and streamlines IQ metering for easy storage installations by providing a consistent, pre-wired solution for residential applications. It offers an optional 2-pole input circuit and Eaton BR series busbar assembly.

- Smart**
- Includes IQ Gateway for communication and control
  - Includes Enphase Micro-Connect central inverter (E11-KM001) in US SP only, included only with IQ Combiner 4C
  - Includes solar shield to match Enphase IQ battery aesthetics and deflect heat
  - Provides networking solutions for Ethernet, cellular
  - Optional AC receiver available for large metering
  - Provides production logging and non-competition monitoring

- Simple**
- Control remaining in rack, support simple
  - Shut monitoring
  - Supports 120V AC and 240V AC
  - Up to four 2-pole branch circuits for 240 VAC and 120V AC (not included)
  - Bus bar for up to 400V branch circuits

- Reliable**
- Available NEMA 4X and NEMA 4X-3R enclosure
  - Five-year limited warranty
  - Two years labor reimbursement program coverage included for both IQ Combiner 4/4C
  - UL listed



To learn more about Enphase offerings, visit [enphase.com](http://enphase.com)



## Enphase IQ Combiner 4/4C

Model Number: X-IQ-AM1-240-4  
X-IQ-AM1-240-4C

### ACCESSORIES AND REPLACEMENT PARTS

- Enphase IQ Gateway
- Enphase Micro-Connect central inverter (E11-KM001) in US SP only, included only with IQ Combiner 4C
- Enphase Solar Shield
- Enphase Ethernet
- Enphase Cellular
- Enphase AC Receiver
- Enphase LED Light Receiver
- Eaton BR Series Busbar Assembly

### ELECTRICAL SPECIFICATIONS

Model	IQ Combiner 4/4C
Input Voltage	120V/240V AC
Output Voltage	120V/240V AC
Max. Input Current	40A
Max. Output Current	40A
Max. Input Power	4800W
Max. Output Power	4800W
Max. Input Energy	4800Wh
Max. Output Energy	4800Wh

### Mechanical Data

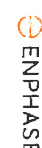
Model	IQ Combiner 4/4C
Height	17.5" (442.5mm)
Width	11.5" (292.5mm)
Depth	4.5" (114.3mm)
Weight	15.5 lbs (7.0kg)
Material	Aluminum
Finish	Black
Mounting	Wall
Clearance	1" (25.4mm)
Temperature Range	-40°C to 60°C (-40°F to 140°F)
Humidity	5% to 95% RH
Vibration	0.1g
Shock	10g
Sealing	IP65
Compliance	UL 1741, UL 1741-3R, UL 1741-4R, UL 1741-5R, UL 1741-6R, UL 1741-7R, UL 1741-8R, UL 1741-9R, UL 1741-10R, UL 1741-11R, UL 1741-12R, UL 1741-13R, UL 1741-14R, UL 1741-15R, UL 1741-16R, UL 1741-17R, UL 1741-18R, UL 1741-19R, UL 1741-20R, UL 1741-21R, UL 1741-22R, UL 1741-23R, UL 1741-24R, UL 1741-25R, UL 1741-26R, UL 1741-27R, UL 1741-28R, UL 1741-29R, UL 1741-30R, UL 1741-31R, UL 1741-32R, UL 1741-33R, UL 1741-34R, UL 1741-35R, UL 1741-36R, UL 1741-37R, UL 1741-38R, UL 1741-39R, UL 1741-40R, UL 1741-41R, UL 1741-42R, UL 1741-43R, UL 1741-44R, UL 1741-45R, UL 1741-46R, UL 1741-47R, UL 1741-48R, UL 1741-49R, UL 1741-50R, UL 1741-51R, UL 1741-52R, UL 1741-53R, UL 1741-54R, UL 1741-55R, UL 1741-56R, UL 1741-57R, UL 1741-58R, UL 1741-59R, UL 1741-60R, UL 1741-61R, UL 1741-62R, UL 1741-63R, UL 1741-64R, UL 1741-65R, UL 1741-66R, UL 1741-67R, UL 1741-68R, UL 1741-69R, UL 1741-70R, UL 1741-71R, UL 1741-72R, UL 1741-73R, UL 1741-74R, UL 1741-75R, UL 1741-76R, UL 1741-77R, UL 1741-78R, UL 1741-79R, UL 1741-80R, UL 1741-81R, UL 1741-82R, UL 1741-83R, UL 1741-84R, UL 1741-85R, UL 1741-86R, UL 1741-87R, UL 1741-88R, UL 1741-89R, UL 1741-90R, UL 1741-91R, UL 1741-92R, UL 1741-93R, UL 1741-94R, UL 1741-95R, UL 1741-96R, UL 1741-97R, UL 1741-98R, UL 1741-99R, UL 1741-100R

### INTERNET CONNECTION OPTIONS

- Enphase Ethernet
- Enphase Cellular
- Enphase AC Receiver

### COMPLIANCE

UL 1741, UL 1741-3R, UL 1741-4R, UL 1741-5R, UL 1741-6R, UL 1741-7R, UL 1741-8R, UL 1741-9R, UL 1741-10R, UL 1741-11R, UL 1741-12R, UL 1741-13R, UL 1741-14R, UL 1741-15R, UL 1741-16R, UL 1741-17R, UL 1741-18R, UL 1741-19R, UL 1741-20R, UL 1741-21R, UL 1741-22R, UL 1741-23R, UL 1741-24R, UL 1741-25R, UL 1741-26R, UL 1741-27R, UL 1741-28R, UL 1741-29R, UL 1741-30R, UL 1741-31R, UL 1741-32R, UL 1741-33R, UL 1741-34R, UL 1741-35R, UL 1741-36R, UL 1741-37R, UL 1741-38R, UL 1741-39R, UL 1741-40R, UL 1741-41R, UL 1741-42R, UL 1741-43R, UL 1741-44R, UL 1741-45R, UL 1741-46R, UL 1741-47R, UL 1741-48R, UL 1741-49R, UL 1741-50R, UL 1741-51R, UL 1741-52R, UL 1741-53R, UL 1741-54R, UL 1741-55R, UL 1741-56R, UL 1741-57R, UL 1741-58R, UL 1741-59R, UL 1741-60R, UL 1741-61R, UL 1741-62R, UL 1741-63R, UL 1741-64R, UL 1741-65R, UL 1741-66R, UL 1741-67R, UL 1741-68R, UL 1741-69R, UL 1741-70R, UL 1741-71R, UL 1741-72R, UL 1741-73R, UL 1741-74R, UL 1741-75R, UL 1741-76R, UL 1741-77R, UL 1741-78R, UL 1741-79R, UL 1741-80R, UL 1741-81R, UL 1741-82R, UL 1741-83R, UL 1741-84R, UL 1741-85R, UL 1741-86R, UL 1741-87R, UL 1741-88R, UL 1741-89R, UL 1741-90R, UL 1741-91R, UL 1741-92R, UL 1741-93R, UL 1741-94R, UL 1741-95R, UL 1741-96R, UL 1741-97R, UL 1741-98R, UL 1741-99R, UL 1741-100R



To learn more about Enphase offerings, visit [enphase.com](http://enphase.com)



SOLAR LIGHT & MORE  
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CSI/BN C/C656750  
PHONE: 3525664651  
EMAIL: [Kathy@solarlighthe.com](mailto:Kathy@solarlighthe.com)

DESCRIPTION	DATE	REV
INITIAL RELEASE	10/21/2022	1R

PROJECT NAME

DON AND TABITHA WILLIAMS  
4040 SE 14TH PLACE,  
OCALA, FL 34471 USA  
APN# 2962001009  
UTILITY: OCALA ELECTRIC  
AHJ: MARION COUNTY

SHEET NAME  
SHEET NUMBER  
ANSI B  
11" X 17"  
PV-11

ENPHASE Q CABLE ACCESSORIES

## Enphase Q Cable Accessories

The **Enphase Q Cable™** and accessories are part of the latest generation Enphase IQ System™. These accessories provide simplicity, reliability, and faster installation times.



### Enphase Q Cable

- Two wire double insulated Enphase Q Cable is 50% lighter than the previous generation Enphase cable.
- New cable numbering and plug and play connectors speed up installation and simplify wire management.
- Link connectors eliminate cable waste.

### Field-Wireable Connectors

- Easily connect Q cables on the roof without complex wiring.
- Make connections from any open connector and center feed any section of cable within reach limits.
- Available in male and female connector types.

To learn more about Enphase offerings, visit [enphase.com](http://enphase.com)



## Enphase Q Cable Accessories

### CONNECTION SPECIFICATIONS

Enphase Cable	UL 9731 (cable assembly) for cable
Field-Wireable Connector	UL 9731 (cable assembly) for cable
Field-Wireable Connector	UL 9731 (cable assembly) for cable
Field-Wireable Connector	UL 9731 (cable assembly) for cable

### ENPHASE Q CABLE ACCESSORIES

Name	Model Number	Description
Enphase Q Cable	0-12 RAW-300	300 meters of 12 AWG cable with no connectors
Field-Wireable Connector (Female)	0-CONN-F00	Make connections from any open connector
Field-Wireable Connector (Male)	0-CONN-M00	Make connections from any open connector
Cable Clip	0-CLIP-100	Used to secure loose cable with a plastic clip
Q Cable Sealing Cap (Female)	0-SEAL-F00	Used to seal the end of a Q cable
Q Cable Sealing Cap (Male)	0-SEAL-M00	Used to seal the end of a Q cable
Termination Cap (Female)	0-TRM-F00	Used to terminate the end of a Q cable
Termination Cap (Male)	0-TRM-M00	Used to terminate the end of a Q cable
Sealing Cap (Female)	0-SEAL-F00	Used to seal the end of a Q cable
Sealing Cap (Male)	0-SEAL-M00	Used to seal the end of a Q cable
Connectors (Female)	0-CONN-F00	Used to connect Q cables
Connectors (Male)	0-CONN-M00	Used to connect Q cables



**CABLE CLIP**  
Used to secure loose cable with a plastic clip

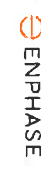
**TERMINATION CAP**  
Used to terminate the end of a Q cable



**SEALING CAPS**  
Used to seal the end of a Q cable

**CONNECTORS**  
Used to connect Q cables

To learn more about Enphase offerings, visit [enphase.com](http://enphase.com)



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5640 SW 14TH PLACE SUITE 400  
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PHONE: 352-266-6661  
EMAIL: [kelly@solarlighthe.com](mailto:kelly@solarlighthe.com)

VERSION	DATE	REV
INITIAL RELEASE	09/27/2021	001

**PROJECT NAME**  
DON AND TABITHA WILLIAMS  
4040 SE 14TH PLACE,  
OCALA, FL 34471 USA  
APN# 2962001009  
UTILITY: OCALA ELECTRIC  
AHJ: MARION COUNTY

<b>SHEET NAME</b>	PV-112
<b>SHEET SIZE</b>	ANSI B 11" X 17"
<b>SPEC SHEETS</b>	
<b>SHEET NUMBER</b>	

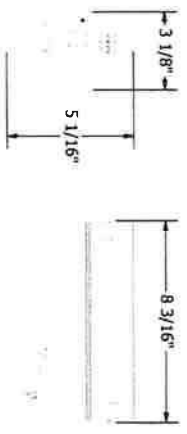
PART # TABLE	
P/N	DESCRIPTION
250030U	SFM SPLICE 6.5"



SFM SPLICE 6.5"

<p>1411 BROADWAY BLDG. NE ALBUQUERQUE, NM 87102 USA PHONE: 505.242.6411 WWW.UNIRAC.COM</p>	PRODUCT LINE:	SFM INFINITY	DRAWING NOT TO SCALE ALL DIMENSIONS ARE NOMINAL	SFM-A06 SHEET
	DRAWING TYPE:	PARTS ASSEMBLY	PRODUCT PROTECTED BY ONE OR MORE US PATENTS LEGAL NOTICE	
	DESCRIPTION:	SPLICE 6.5"		
	REVISION DATE:	4/22/2019		

PART # TABLE	
P/N	DESCRIPTION
250030U	SFM ATTACHED SPLICE 8"



SFM ATTACHED SPLICE 8"

<p>1411 BROADWAY BLDG. NE ALBUQUERQUE, NM 87102 USA PHONE: 505.242.6411 WWW.UNIRAC.COM</p>	PRODUCT LINE:	SFM INFINITY	DRAWING NOT TO SCALE ALL DIMENSIONS ARE NOMINAL	SFM-A03 SHEET
	DRAWING TYPE:	PARTS ASSEMBLY	PRODUCT PROTECTED BY ONE OR MORE US PATENTS LEGAL NOTICE	
	DESCRIPTION:	ATT SPLICE 8"		
	REVISION DATE:	4/22/2019		



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CSI:BJ CVCS5750  
PHONE:3522968661  
EMAIL: kathy@solarlights.com

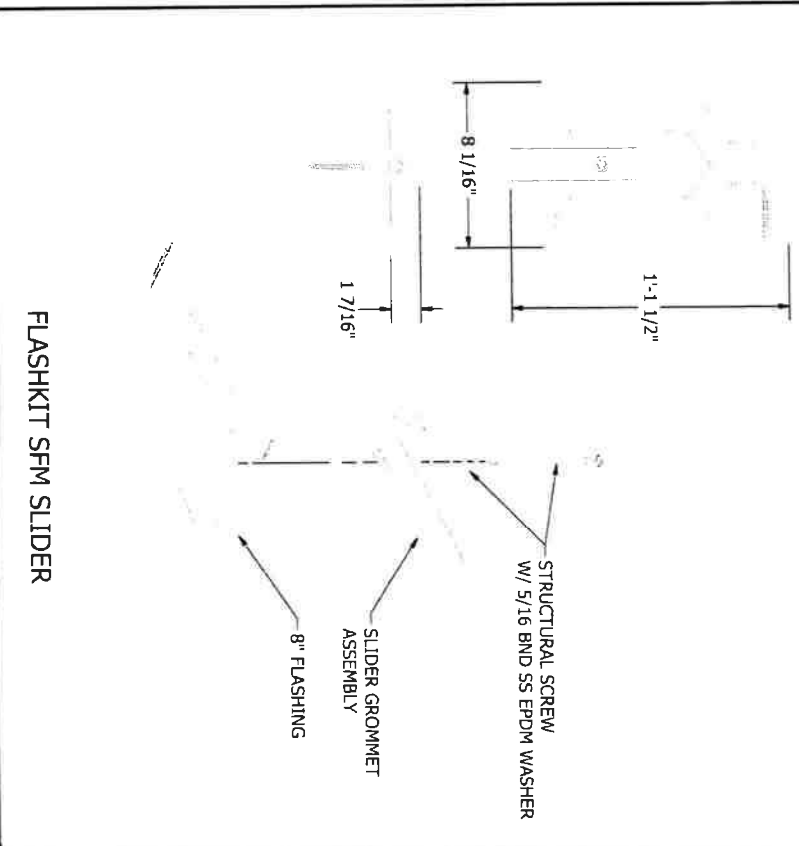
VERSION	DESCRIPTION	DATE	REV
	INITIAL RELEASE	04/22/2022	UN

PROJECT NAME

DON AND TABITHA WILLIAMS  
4040 SE 14TH PLACE,  
OCALA, FL 34471 USA  
APN# 2962001009  
UTILITY: OCALA ELECTRIC  
AHJ: MARION COUNTY

SHEET NAME  
SPEC SHEETS  
SHEET SIZE  
ANSI B  
11" X 17"  
SHEET NUMBER  
PV-13

PART # TABLE	
P/N	DESCRIPTION
0042700	FLASHKIT SFM SLIDER COMP DARK



**UNIRAC**  
 1411 BROADWAY BLVD, NE  
 ALBUQUERQUE, NM 87102 USA  
 PHONE: 505.242.6411  
 WWW.UNIRAC.COM

PRODUCT LINE:	SFM INFINITY
DRAWING TYPE:	PARTS ASSEMBLY
DESCRIPTION:	FLASHKIT SLIDER
REVISION DATE:	4/22/2019

DRAWING NOT TO SCALE  
 ALL DIMENSIONS ARE  
 NOMINAL  
 PRODUCT PROTECTED BY  
 ONE OR MORE US PATENTS  
 LEGAL NOTICE

SFM-A05  
 SHEET



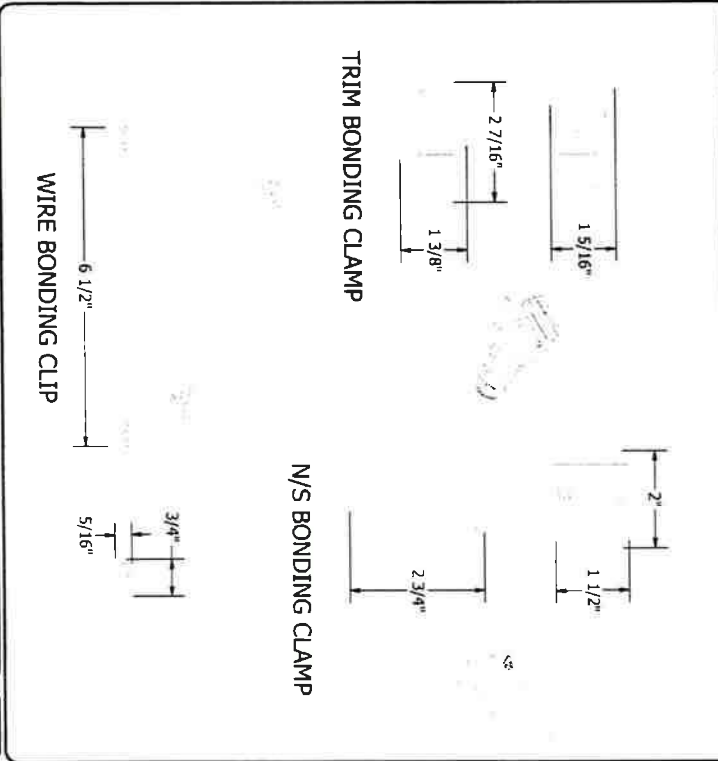
SOLAR LIGHT & MORE  
 5640 SW 9TH PLACE SUITE 400,  
 OCALA, FL 34474 USA  
 CSL# CVC55750  
 PHONE: 352.268.4861  
 EMAIL: Kelly@solarlighthe.com

VERSION			
DESCRIPTION	DATE	REV	
INITIAL RELEASE	08/15/02	UR	

PROJECT NAME  
 DON AND TABITHA WILLIAMS  
 4040 SE 14TH PLACE,  
 OCALA, FL 34471 USA  
 APN# 2962001009  
 UTILITY: OCALA ELECTRIC  
 AHJ: MARION COUNTY

SHEET NAME  
 SPEC SHEETS  
 SHEET SIZE  
 ANSI B  
 11" X 17"  
 SHEET NUMBER  
 PV-14

PART # TABLE	
P/N	DESCRIPTION
008000U	SFM N/S BONDING CLAMP
008015S	SFM WIRE BONDING CLIP
008100U	SFM TRIM BONDING CLAMP



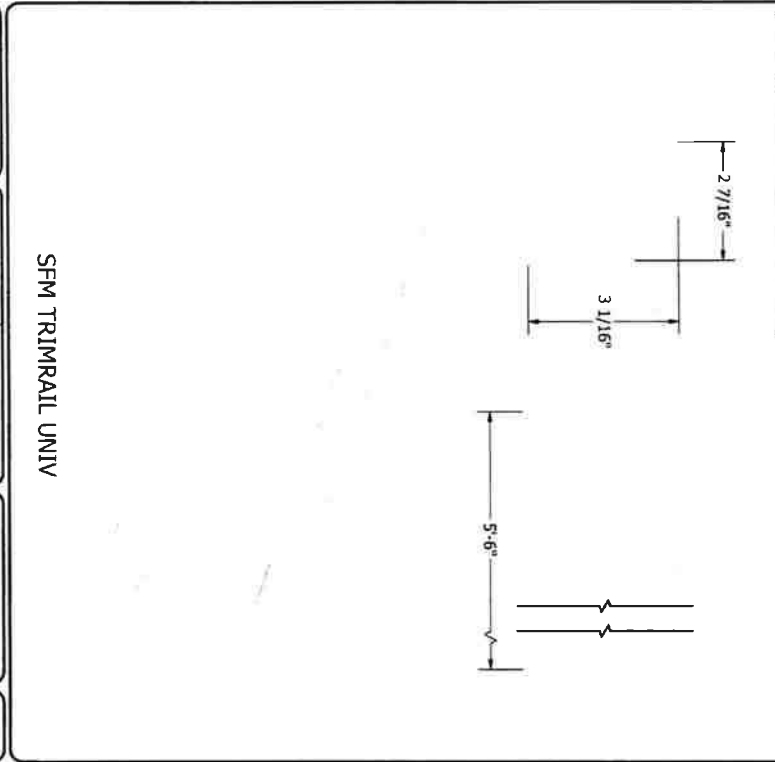
**UNIRAC**  
 1411 BROOKWAY BLD. NE  
 ALBUQUERQUE, NM 87102 USA  
 PHONE: 505.242.6411  
 WWW.UNIRAC.COM

PRODUCT LINE:	SFM INFINITY
DRAWING TYPE:	PARTS ASSEMBLY
DESCRIPTION:	BONDING ASSEMBLIES
REVISION DATE:	4/22/2019

DRAWING NOT TO SCALE  
 ALL DIMENSIONS ARE NOMINAL  
 PRODUCT PROTECTED BY ONE OR MORE US PATENTS  
 LEGAL NOTICE

**SFM-A12**  
 SHEET

PART # TABLE	
P/N	DESCRIPTION
250100U	SFM TRIMRAIL UNIV DARK



**UNIRAC**  
 1411 BROOKWAY BLD. NE  
 ALBUQUERQUE, NM 87102 USA  
 PHONE: 505.242.6411  
 WWW.UNIRAC.COM

PRODUCT LINE:	SFM INFINITY
DRAWING TYPE:	PART
DESCRIPTION:	TRIMRAIL UNIV
REVISION DATE:	4/22/2019

DRAWING NOT TO SCALE  
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 PRODUCT PROTECTED BY ONE OR MORE US PATENTS  
 LEGAL NOTICE

**SFM-P01**  
 SHEET



SOLAR LIGHT & MORE  
 5640 SW 6TH PLACE, SUITE 400,  
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 CS: 813 6058829  
 PHONE: 352 2884499  
 EMAIL: info@solarlightsinc.com

VERSION		
DESCRIPTION	DATE	REV
INITIAL REFERENCE	04/21/2022	UR

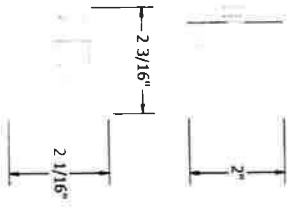
PROJECT NAME  
 DON AND TABITHA WILLIAMS  
 4040 SE 14TH PLACE,  
 OCALA, FL 34471 USA  
 APN# 2962001009  
 UTILITY: OCALA ELECTRIC  
 AHJ: MARION COUNTY

SHEET NAME  
 SPEC SHEETS

SHEET SIZE  
 ANSI B  
 11" X 17"

SHEET NUMBER  
**PV-15**

PART # TABLE	
P/N	DESCRIPTION
250110U	SFM UNIV TRIMRAIL CLIP DARK



UNIV TRIMRAIL CLIP

**UNIRAC**  
 1411 BROADWAY BLVD. NE  
 ALBUQUERQUE, NM 87102 USA  
 PHONE: 505.742.6411  
 WWW.UNIRAC.COM

PRODUCT LINE: SFM INFINITY  
 DRAWING TYPE: PARTS ASSEMBLY  
 DESCRIPTION: UNIV TRIMRAIL CLIP  
 REVISION DATE: 4/22/2019

DRAWING NOT TO SCALE  
 ALL DIMENSIONS ARE  
 NOMINAL  
 PRODUCT PROTECTED BY  
 ONE OR MORE US PATENTS  
 LEGAL NOTICE

SFM-A09  
 SHEET

PART # TABLE	
P/N	DESCRIPTION
250120U	SFM TRIM SPLICE ASSEMBLY DARK



SFM TRIMRAIL SPLICE

**UNIRAC**  
 1411 BROADWAY BLVD. NE  
 ALBUQUERQUE, NM 87102 USA  
 PHONE: 505.742.6411  
 WWW.UNIRAC.COM

PRODUCT LINE: SFM INFINITY  
 DRAWING TYPE: PARTS ASSEMBLY  
 DESCRIPTION: TRIMRAIL SPLICE  
 REVISION DATE: 4/22/2019

DRAWING NOT TO SCALE  
 ALL DIMENSIONS ARE  
 NOMINAL  
 PRODUCT PROTECTED BY  
 ONE OR MORE US PATENTS  
 LEGAL NOTICE

SFM-A10  
 SHEET



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 5640 SW 6TH PLACE, SUITE #100  
 OCALA, FL 34474 USA  
 CSLB# CVC56750  
 PHONE: 352.268.6681  
 EMAIL: Kelly@solarlighthelectric.com

VERSION			
DESCRIPTION	DATE	REV	UR
INITIAL RELEASE	06/01/2002		UR

PROJECT NAME

DON AND TABITHA WILLIAMS  
 4040 SE 14TH PLACE,  
 OCALA, FL 34471 USA  
 APN# 2962001009  
 UTILITY: OCALA ELECTRIC  
 AHJ: MARION COUNTY

SHEET NAME  
 SPEC SHEETS  
 SHEET SIZE  
 ANSI B  
 11" X 17"  
 SHEET NUMBER  
 PV-16

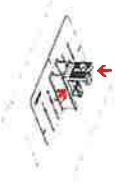






# 1ST ROW INSTALLATION

INSTALLATION GUIDE | PAGE



**ALIGN FROM ROW**  
Trimrail center line alignment with module center line.

**TIGHTEN CLIPS**  
Tighten trimrail clip screw and trimrail end attachment flange clamp screw.

**TRIMRAIL PREPARATION**  
Trimrail overall length of trimrail for front row depends on length of array and trimrail length. Refer to 2nd page for details on trimrail preparation.



**INSTALL TRIMRAIL SERVICE ENTRANCE**  
Trimrail sections at service entrance should be installed in a way that allows for expansion and contraction.



**JOIN TRIMRAIL SECTIONS AT SERVICE ENTRANCE**  
Use trimrail end attachment flange and trimrail end attachment flange clamp to join trimrail sections at service entrance.



**VERIFY SPACE INSTALLATION**  
Verify that installation of trimrail sections at service entrance is correct.



# MODULE MOUNTING

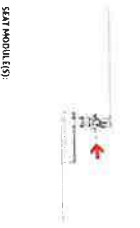
INSTALLATION GUIDE | PAGE



**LOW IN MICROBALLS**  
Install microball on bottom row. Install microball on module into the trimrail end attachment flange.



**LOW IN MICROBALLS**  
Install microball on module into the trimrail end attachment flange.



**SEAT MODULES**  
Ensure that modules are properly seated in top and base.



**ADJUST MICROBALL CAP DOWN TO ENFACE WITH MODULE**  
Adjust microball cap down to ensure it is flush with the module.



**VERIFY CORRECT POSITION OF CAP**  
Verify that the microball cap is correctly positioned.



# TRIMRAIL + MICROBALL INSTALLATION

INSTALLATION GUIDE | PAGE

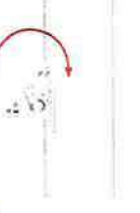


**ATTACH TRIMRAIL TO MODULE ATTACHMENT**  
Attach trimrail to module attachment using trimrail clip and microball.

**INSTALL MODULE CLIPS ON TRIMRAIL**  
Install module clips on trimrail using trimrail clip and microball.



**POSITION MODULE CLIPS ACCORDING TO MODULE DIMENSIONS**  
Position module clips according to module dimensions.

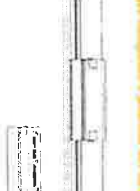


**INSTALL MICROBALLS**  
Install microballs on module attachment points.

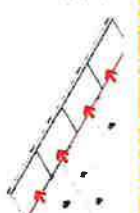


# MODULE MOUNTING

INSTALLATION GUIDE | PAGE



**ATTACH SPACER**  
Attach spacer to the back of the module.



**FASTEN MODULES**  
Fasten modules to the rail using trimrail clip and microball.



**TIGHTEN FASTENERS**  
Tighten fasteners to 20 ft-lb.



**ATTACH SPACER ADJUSTMENT**  
Adjust spacer to the correct height.



**1. With 1/4" hex driver, hold module height adjustment screw. 2. Rotate height adjustment screw counter-clockwise until height matches 12.5mm.**



**2. With 1/4" hex driver, hold module height adjustment screw. 3. Rotate height adjustment screw clockwise until height matches 12.5mm.**

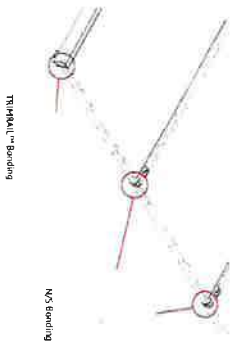


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CSL:BLV-CVCS58750  
PHONE: 3522684661  
EMAIL: kathy@solarlightrg.com

VERSION	DATE	REV
001	08/20/22	UN

PROJECT NAME  
DON AND TABITHA WILLIAMS  
4040 SE 14TH PLACE,  
OCALA, FL 34471 USA  
APN# 2962001009  
UTILITY: OCALA ELECTRIC  
AHJ: MARION COUNTY

SHEET NAME  
SHEET SIZE  
ANSI B  
11" X 17"  
SHEET NUMBER  
PV-19

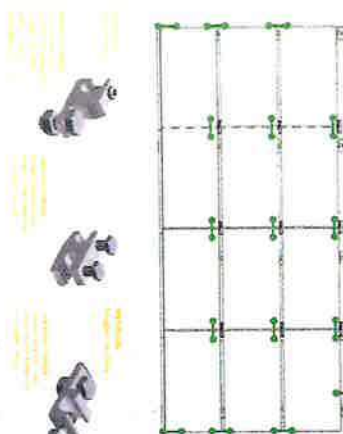


T1000ALU - Bonding

N5 Bonding



N5 Bonding Clamp:  
Insert clamp between module  
torques to 20 ft-lb.



E10 BONDING PATH:

E10 module to module bonding is accomplished with 2 pre-installed bonding pins which engage on the secure side of the front cover and plate

N5 BONDING PATH:

N5 module to module bonding is accomplished with bonding clamp with 2 integral bonding pins

T1000ALU BONDING PATH:

Terminal to module bonding is accomplished with terminal to module bonding clamp with 2 integral bonding pins

UL Code Compliance Notes:

- Class 1 or 2 (UL 4891)
  - UL 4891 - 150 PSI
  - UL 4891 - 150 PSI
  - UL 4891 - 150 PSI
  - UL 4891 - 150 PSI
- Class 2 (UL 4891)
  - UL 4891 - 150 PSI
  - UL 4891 - 150 PSI
  - UL 4891 - 150 PSI
  - UL 4891 - 150 PSI
- Class 3 (UL 4891)
  - UL 4891 - 150 PSI
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  - UL 4891 - 150 PSI

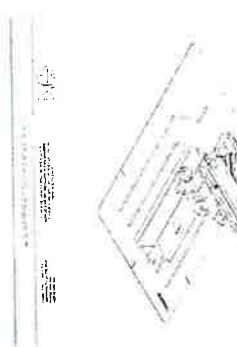


**SYSTEM UL/CFE/R CLASSIFICATION**

The system for classifying requires installation in the weather specified in the UL Standard Handbook, UL 98 from UL. The system has been classified as Class 1 or 2 (UL 4891) or Class 3 (UL 4891) depending on the system configuration. The system has been classified as Class 1 or 2 (UL 4891) or Class 3 (UL 4891) depending on the system configuration. The system has been classified as Class 1 or 2 (UL 4891) or Class 3 (UL 4891) depending on the system configuration.

performance is achieved in the SF4 array, and for additional information regarding performance the classification and installation instructions for the modules are provided in the UL Standard Handbook, UL 98 from UL. The system has been classified as Class 1 or 2 (UL 4891) or Class 3 (UL 4891) depending on the system configuration. The system has been classified as Class 1 or 2 (UL 4891) or Class 3 (UL 4891) depending on the system configuration.

- UL 98 TEST METHODS**
  - UL 98 - 150 PSI
  - UL 98 - 150 PSI
  - UL 98 - 150 PSI
  - UL 98 - 150 PSI
- UL 4891 TEST METHODS**
  - UL 4891 - 150 PSI
  - UL 4891 - 150 PSI
  - UL 4891 - 150 PSI
  - UL 4891 - 150 PSI



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DESCRIPTION	DATE	REV
INITIAL RELEASE	06/17/2022	UR

VERSION

PROJECT NAME  
DON AND TABITHA WILLIAMS  
4040 SE 14TH PLACE,  
OCALA, FL 34471 USA  
APN# 2962001009  
UTILITY: OCALA ELECTRIC  
AHJ: MARION COUNTY

SHEET NAME  
SPEC SHEETS

SHEET SIZE  
ANSI B  
11" X 17"

SHEET NUMBER  
PV-20



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**Address:** 1411 Broadway Blvd NE  
 Albuquerque, NM 87102  
**Country:** USA  
**Contact:** Klaus Nicolaidis  
**Phone:** 505-482-2190  
**FAX:** 505-843-1418  
**Email:** klaus.nicolaidis@untrac.com

**Manufacturer:**  
**Address:**  
**Country:**  
**Contact:**  
**Phone:**  
**FAX:**  
**Email:**

**Party Authorized To Apply Mark:** Same as Manufacturer  
**Report Issuing Office:** Lake Forest, CA  
**Control Number:** 5003705  
 Authorized by: *Claudia Adamski*  
 for L. Matthew Snyder, Certification Manager



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Intertek Testing Services NA, Inc.  
 545 East Algonquin Road, Arlington Heights, IL 60005  
 Telephone 800-345-3951 or 847-439-5667 Fax 312-283-1672

<b>Standard(s):</b>	Mounting Systems, Mounting Devices, Clamping/Retention Devices, and Ground Lugs for Use with Flat-Plate Photovoltaic Modules and Panels (UL 2703 2015 Ed. 1)
<b>Product:</b>	Photovoltaic Module Racking Systems (CSA LTR AE-001:2012 Ed.2012/10/23)
<b>Brand Name:</b>	Untrac
<b>Models:</b>	Untrac SFM



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**Country:** USA  
**Contact:** Klaus Nicolaidis  
**Phone:** 505-482-2190  
**FAX:** 505-843-1418  
**Email:** klaus.nicolaidis@untrac.com

**Manufacturer:**  
**Address:**  
**Country:**  
**Contact:**  
**Phone:**  
**FAX:**  
**Email:**

**Party Authorized To Apply Mark:** Same as Manufacturer  
**Report Issuing Office:** Lake Forest, CA  
**Control Number:** 5071989  
 Authorized by: *Claudia Adamski*  
 for L. Matthew Snyder, Certification Manager



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 545 East Algonquin Road, Arlington Heights, IL 60005  
 Telephone 800-345-3951 or 847-439-5667 Fax 312-283-1672

<b>Standard(s):</b>	Mounting Systems, Mounting Devices, Clamping/Retention Devices, and Ground Lugs for Use with Flat-Plate Photovoltaic Modules and Panels (UL 2703 2015 Ed. 1)
<b>Product:</b>	Photovoltaic Module Racking Systems (CSA LTR AE-001:2012 Ed.2012/10/23)
<b>Brand Name:</b>	Untrac
<b>Models:</b>	Untrac SFM



SOLAR LIGHT & MORE  
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 OCALA, FL 34474 USA  
 CSUBM CVC66700  
 PHONE: 352-868-6681  
 EMAIL: kathy@solarlights.com

VERSION	DESCRIPTION	DATE	Dr-V
	INITIAL RELEASE	06/11/2020	US

PROJECT NAME

DON AND TABITHA WILLIAMS  
 4040 SE 14TH PLACE,  
 OCALA, FL 34471 USA  
 APN# 2962001009  
 UTILITY: OCALA ELECTRIC  
 AHJ: MARION COUNTY

SHEET NAME  
 SHEET NUMBER  
 ANSI B  
 11" X 17"  
 PV-21



December 31, 2020  
 Unifac  
 1411 Broadway Blvd. NE  
 Albuquerque, NM 87102

Attn: Unifac - Engineering Department

Re: Engineering Certification for the Unifac Sunframe Microcell, SFM Infinity U-builder software Version 1.0

P7SE, Inc. - Structural Engineers has reviewed the Unifac Sunframe Microcell, proprietary mounting system constructed from modular parts which is intended for rooftop installation of solar photovoltaic (PV) panels, and has reviewed the U-builder Online tool. This U-builder software includes analysis for the 2" Microcell, 6" Attached Splice, 6" Splice, and front terminal. All information, data and analysis contained within are based on, and comply with the following codes and typical specifications:

1. Minimum Design Loads for Buildings and other Structures, ASCE/SEI 7-05, ASCE/SEI 7-10, ASCE/SEI 7-16
2. 2020 Florida Building Code, by Florida Building Commission
3. 2006-2018 International Building Code, by International Code Council, Inc. w/ Provisions from SEAOC PV 2 2017.
4. 2006-2018 International Residential Code, by International Code Council, Inc. w/ Provisions from SEAOC PV 2 2017.
5. AC408, Acceptance Criteria for Modular Framing Systems Used to Support Photovoltaic (PV) Panels, November 1, 2012 by ICC-ES.

Following are typical specifications to meet the above code requirements:

**Design Criteria:**  
 Ground Snow Load = 0 - 100 (psf)  
 Basic Wind Speed = 90 - 180 (mph)  
 Roof Mean Height = 0 - 60 (ft)  
 Roof Pitch = 0 - 45 (degree)  
 Exposure Category = B, C, & D  
 Per U-builder Engineering report.

**Attachment Spacing:**  
 Maximum cantilever length is U/3, where "U" is the span noted in the U-builder online tool.

**Cantilever:**  
 2" to 10" clear from top of roof to top of PV panel.

**Clearance:**  
 1.0" tolerance for any specified dimension in this report is allowed for installation.

**Tolerances:**  
 1.0" tolerance for any specified dimension in this report is allowed for installation.

**Installation Orientation:**  
 See SFM Installation Guide.  
 Landscape - PV Panel long dimension is parallel to ridge/eave line of roof and the PV panel is mounted on the long side.  
 Portrait - PV Panel short dimension is parallel to ridge/eave line of roof and the PV panel is mounted on the short side.  
 Attachment shall be staggered where ground snow load exceeds 10 PSF.

**Testing:**  
 Values were based on UTR 219 testing provided by Unifac.

1478 Stone Point Drive, Suite 190, Roseville, CA 95661  
 916.961.3960 916.961.3965 www.p7se.com



**Components and Cladding Roof Zones:**  
 The Components and Cladding Floor Zones shall be determined based on ASCE 7-05, ASCE 7-10 & 7-16 Component and Cladding design.

Notes:  
 1) U-builder Online tool analysis is only for Unifac SFM Sunframe Microcell system only and do not include roof capacity check.  
 2) Risk Category II per ASCE 7-16.  
 3) Topographic factor, Kzt is 1.0.  
 4) Array Edge Factor Y<sub>e</sub> = 1.5  
 5) Average panel height is 0.0 ft.  
 6) Wind speeds are LRFD values.  
 7) Attachment spacing(s) apply to a seismic design category E or less.

**Design Responsibility:**  
 The U-builder design software is intended to be used under the responsible charge of a registered design professional where required by the authority having jurisdiction. In all cases, this U-builder software should be used under the direction of a design professional with sufficient structural engineering knowledge and experience to be able to:

- Evaluate whether the U-builder Software is applicable to the project, and
- Understand and determine the appropriate values for all input parameters of the U-builder software.

This letter certifies that the Unifac SFM Sunframe Microcell, when installed according to the U-builder engineering report and the manufacture specifications, is in compliance with the above codes and loading criteria.

This certification includes evaluation of the following components:

- 1) The structure to support the loads imposed on the building by the array, including, but not limited to: strength and deflection of structural framing members, fastening and/or strength of roofing materials, and/or the effects of snow accumulation on the structure.
- 2) The attachment of the SFM 2" Microcell or 6" Attached Splice to the existing structure.
- 3) The capacity of the solar module frame to resist the loads.

This requires additional knowledge of the building and is outside the scope of the certification of this racking system. If you have any questions on the above, do not hesitate to call.

Prepared by:  
 P7SE, Inc. - Structural Engineers  
 Roseville, CA

**THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY PAUL K. ZACHEN PER ON 12/31/2020 USING A SIGNATURE AUTHENTICATION CODE AND SEALED AND THE SIGNATURE AUTHENTICATION CODE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.**



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		SOLAR LIGHT & MORE 8640 SW 6TH PLACE, SUITE 100 Ocala, FL 34471 USA CS/B# 01567290 PHONE 3522684651 EMAIL: Kelly@datelights.com
VERSION PREPARED BY: DATE: REV: INITIAL RELEASE: 08/31/2022 UR		
PROJECT NAME DON AND TABITHA WILLIAMS 4040 SE 14TH PLACE, OCALA, FL 34471 USA APN# 2962001009 UTILITY: OCALA ELECTRIC AHJ: MARION COUNTY		
SHEET NAME SPEC SHEETS 12/31/2020		
SHEET SIZE ANSI B 11" X 17"		
SHEET NUMBER PV-22		

**Certificate Of Completion**

Envelope Id: DBBEF25AC07E484F9D12720A3481DEDB	Status: Completed
Subject: Tri-Party Net Metering Agreement (Tabitha Williams) [ELE/230438]	
Source Envelope:	
Document Pages: 46	Signatures: 5
Certificate Pages: 5	Initials: 0
AutoNav: Enabled	Envelope Originator:
Envelope Stamping: Enabled	Savannah Lewis
Time Zone: (UTC-05:00) Eastern Time (US & Canada)	110 SE Watula Avenue
	City Hall, Third Floor
	Ocala, FL 34471
	slewis@ocalafl.org
	IP Address: 216.255.240.104

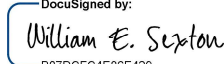
**Record Tracking**

Status: Original	Holder: Savannah Lewis	Location: DocuSign
4/21/2023 1:40:45 PM	slewis@ocalafl.org	
Security Appliance Status: Connected	Pool: StateLocal	
Storage Appliance Status: Connected	Pool: City of Ocala - Procurement & Contracting	Location: DocuSign

**Signer Events**

William E. Sexton  
 wsexton@ocalafl.org  
 City Attorney  
 City of Ocala  
 Security Level: Email, Account Authentication (None)

**Signature**

DocuSigned by:  
  
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 Signature Adoption: Pre-selected Style  
 Using IP Address: 216.255.240.104

**Timestamp**

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 Viewed: 4/21/2023 2:23:54 PM  
 Signed: 4/21/2023 2:24:13 PM

**Electronic Record and Signature Disclosure:**

Not Offered via DocuSign

Janice Mitchell  
 jmitchell@Ocalafl.org  
 CFO  
 Security Level: Email, Account Authentication (None)

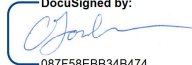
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**Electronic Record and Signature Disclosure:**

Accepted: 4/24/2023 10:10:53 AM  
 ID: e0542d37-e088-4d57-a440-90e5730e553d

Chris Gowder  
 chris.gowder@fmpa.com  
 VP of IT/OT and System Ops  
 Security Level: Email, Account Authentication (None)

DocuSigned by:  
  
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 Signature Adoption: Uploaded Signature Image  
 Using IP Address: 38.77.131.2

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 Signed: 4/24/2023 2:19:31 PM

**Electronic Record and Signature Disclosure:**

Accepted: 4/24/2023 2:19:13 PM  
 ID: 97f0d948-486b-4229-ac7b-de368021f0cc

In Person Signer Events	Signature	Timestamp
Editor Delivery Events	Status	Timestamp
Agent Delivery Events	Status	Timestamp
Intermediary Delivery Events	Status	Timestamp

<b>Certified Delivery Events</b>	<b>Status</b>	<b>Timestamp</b>
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<b>Carbon Copy Events</b>	<b>Status</b>	<b>Timestamp</b>
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<b>Notary Events</b>	<b>Signature</b>	<b>Timestamp</b>
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<b>Envelope Summary Events</b>	<b>Status</b>	<b>Timestamps</b>
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Certified Delivered	Security Checked	4/24/2023 2:19:13 PM
Signing Complete	Security Checked	4/24/2023 2:19:31 PM
Completed	Security Checked	4/24/2023 2:19:31 PM

<b>Payment Events</b>	<b>Status</b>	<b>Timestamps</b>
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<b>Electronic Record and Signature Disclosure</b>
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