

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: Keila Z Rivera Julian

Mailing Address: 2260 NE 44th St

City: OCALA State: FL Zip Code: 34479

Phone Number: 407-994-3075 Alternate Phone Number: _____

Email Address: Chefakeila@gmail.com Fax Number: _____

Ocala Electric Utility Customer Account Number: 506301-235312

2. RGS Facility Information

Facility Location: 2260 NE 44th St, Ocala, FL 34479

Ocala Electric Utility Customer Account Number: 506301-235312

RGS Manufacturer: _____

Manufacturer's Address: _____

Reference or Model Number: _____

Serial Number: _____

(Continued on Sheet No.19.1)

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

Effective: October 1, 2019

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3. Facility Rating Information

Gross Power Rating: 9.86 KW ("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: 7/14/23

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.

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Electric Utility Director

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

C. Proof of insurance in the amount of:

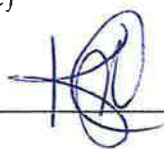
Tier 1-\$100,000.00

Tier 2 - \$1,000,000.00

Tier 3-\$2,000,000.00

Customer

By: Keila Rivera Julian Date: 06/14/2023
(Print Name)


(Signature)

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

Effective: October 1, 2019

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FIRST REVISED SHEET NO. 21.0
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Tier 1 – Standard Interconnection Agreement Customer-Owned Renewable Generation System

This **Agreement** is made and entered into this 14 day of JUNE, 2023, by and between Keila Z Rivera Julian, (hereinafter called "**Customer**"), located at 2260 NE 44th St 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: 2260 NE 44th St, Ocala, FL 34479.

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:

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

Effective: October 1, 2019

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1. The Customer shall be required to enter into a Tri-Party Net-Metering Purchase Power Agreement with FMPA and the City of Ocala Electric Utility (OEU).
2. "Gross power rating" (GPR) means the total manufacturer's AC nameplate generating capacity of an on-site customer-owned renewable generation system that will be interconnected to and operate in parallel with OEU's distribution facilities. For inverter-based systems, the GPR shall be calculated by multiplying the total installed DC nameplate generating capacity by 0.85 in order to account for losses during the conversion from DC to AC.
3. This agreement is strictly limited to cover a Tier 1 RGS as defined above. It is the Customer's responsibility to notify OEU of any change to the GPR of the RGS by submitting a new application for interconnection specifying the modifications at least 30 days prior to making the modifications. Increase in GPR above the ten kilowatt (10 kW) limit would necessitate entering into a new agreement at either Tier 2 or Tier 3 which may impose additional requirements on the Customer. In no case does the Tier 1, Tier 2 or Tier 3 agreement cover increases in GPR above two megawatts (2MW).
4. The RGS GPR must not exceed 90 percent (90%) of the Customer's OEU calculated distribution service rating at the Customer's location (including shared electric facilities). If the GPR does exceed the 90 percent (90%) limit, the Customer shall be responsible to pay the cost of upgrades to the distribution facilities required to accommodate the GPR capacity and ensure the 90 percent (90%) threshold is not breached. OEU will not allow a RGS GPR greater than required to offset the customer's annual kWh energy consumption (based on customer's historical consumption data or by means of estimated usage of similar type of service as determined by OEU).
5. The Customer shall not be required to pay any special fees due solely to the installation of the RGS.
6. The Customer shall fully comply with OEU's Design Standards following NEC standards as those documents may be amended or revised by OUS from time to time.
7. The Customer certifies that its installation, its operation and its maintenance shall be in compliance with the following standards (or most current version at time of inspection approval):
 - a. IEEE-1547 (2018) Standard for Interconnecting Distributed Resources with Electric Power System;
 - b. IEEE-1547.1 (2005) Standard Conformance Test Procedures for Equipment Interconnection Distributed Resources with Electric Power Systems;
 - c. UL-1741 (2010) Inverters, Converters, Controllers and Interconnection System Equipment for Use with Distributed *Energy Resources*.
 - d. The National Electric Code, state and/or local building codes, mechanical codes and/or electrical codes;
 - e. The manufacturer's installation, operation and maintenance instructions.

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

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

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

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

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

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

Effective: October 1, 2019

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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's 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.

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Electric Utility Director

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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.

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

Effective: October 1, 2019

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

24. Notwithstanding any other provision of this Interconnection Agreement, OEU, at its sole and absolute discretion, may isolate the Customer's system from the distribution grid by whatever means necessary, without prior notice to the Customer. To the extent practical, however, prior notice shall be given. The system will be reconnected as soon as practical once the conditions causing the disconnection cease to exist. OEU shall have no obligation to compensate the Customer for any loss of energy during any and all periods when Customer's RGS is operating at reduced capacity or is disconnected from OEU'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.

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

Effective: October 1, 2019

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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.

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

Effective: October 1, 2019

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OCALA, FLORIDA
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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.

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

Effective: October 1, 2019

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

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

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

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

City of Ocala Electric Utility:

By: DocuSigned by:
Janice Mitchell

Title: CFO

Date: 6/30/2023

Customer:

By: Keila Z Rivera Julian
(Print Name)

[Signature]
(Signature)

Date: 06/14/2023

City of Ocala Electric Utility Account Number:

506301-235312

Approved as to form and legality:

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

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

Effective: October 1, 2019

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 14 day of JUNE, 2023, by and between the Florida Municipal Power Agency, a governmental joint action agency created and existing under the laws of the State of Florida (hereinafter "FMPA"), the City of Ocala doing business as Ocala Electric Utility, a body politic (hereinafter "OEU"), and Keila Z Rivera Julian, 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.

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

Effective: October 1, 2019

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Section 3. Metering

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

Section 4. Purchase of Excess Customer-Owned Renewable Generation

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

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

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

(Continued on Sheet No. 20.2)

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

By: DocuSigned by:
Janice Mitchell
5515047300A4E1
Title: CFO
Date: 6/30/2023

Florida Municipal Power Agency

By: DocuSigned by:
[Signature]
557758629340474
Title: VP of IT/OT and System Ops
Date: 7/1/2023

Customer

By: Reita Z Puera Julian Date: 06/14/2023
(Print Name)
[Signature]
(Signature)

Customer's City of Ocala Electric Utility Account Number: 506301-235312

Approved as to form and legality:

DocuSigned by:
William E. Sexton
507D07C4E95E428
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

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RIVERA-JULI ... PERMIT.pdf

Open with Google Docs

MARION COUNTY

Building Safety Department

BUILDING PERMIT

PERMIT # 2023042586

PERMIT TYPE MICRO WIR SOLAR - PHOTOVOLTAIC

EXPIRATION 01-01-2028

DESCRIPTION INSTALL RESIDENTIAL ROOF MOUNTED SOLAR PV SYSTEM

JOB ADDRESS 2246 NW 44TH ST

OWNER INFORMATION RIVERA JULIAN NEDIA S
VELAZQUEZ MIGUEL CAMACHO
2246 NW 44TH ST
OCALA FL 344792819
PARCEL NUMBER 15A4-010-001

DATE OF PERMIT 06/06/2023

PERMIT FEE \$14758

SUBDIVISION WRIGHT HEIGHTS, LOT ADDITION

APPROXIMATE DIMENSIONS 20 x 14 x 35

NOTES AFFIDAVIT SUBMITTED

LEFT RIGHT

This permit will become null and void if construction is not started and a passing inspection obtained within six (6) months.

Notice: Demolition Permits are active for only (60) sixty days from the date of issuance.

In addition to the requirements in this permit, there may be additional restrictions applicable to this property that may be found in the records of this county and there may be additional permits required from other governmental entities such as water management districts, state agencies, or federal agencies > 553 794101.F.S

It is the responsibility of the owner or Addressee contractor to comply with the provisions of § 368.003 of the Florida Statutes and to notify the Department of Environmental Regulation of his/her intentions to remove asbestos, when applicable, in accordance with state and federal laws.

CALL BEFORE YOU DIG: 1-800-432-4770

WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. A NOTICE OF COMMENCEMENT MUST BE RECORDED AT THE MARION COUNTY CLERK OF COURTS AND A CERTIFIED COPY FILED AT THE BUILDING DEPARTMENT, BEFORE THE FIRST INSPECTION. IF

Page 1 / 2

+

ies-departments/departments-facilities-offices/building-safety/permit-inspections

AGENCIES & DEPARTMENTS

DOING BUSINESS

I WANT TO...

Search

Current standards: [Florida Building Code, 7th edition.](#)

Permit search & inspection scheduling

Menu

Inspections for Permit # 2023042586

ALL

REQUESTED ONLY

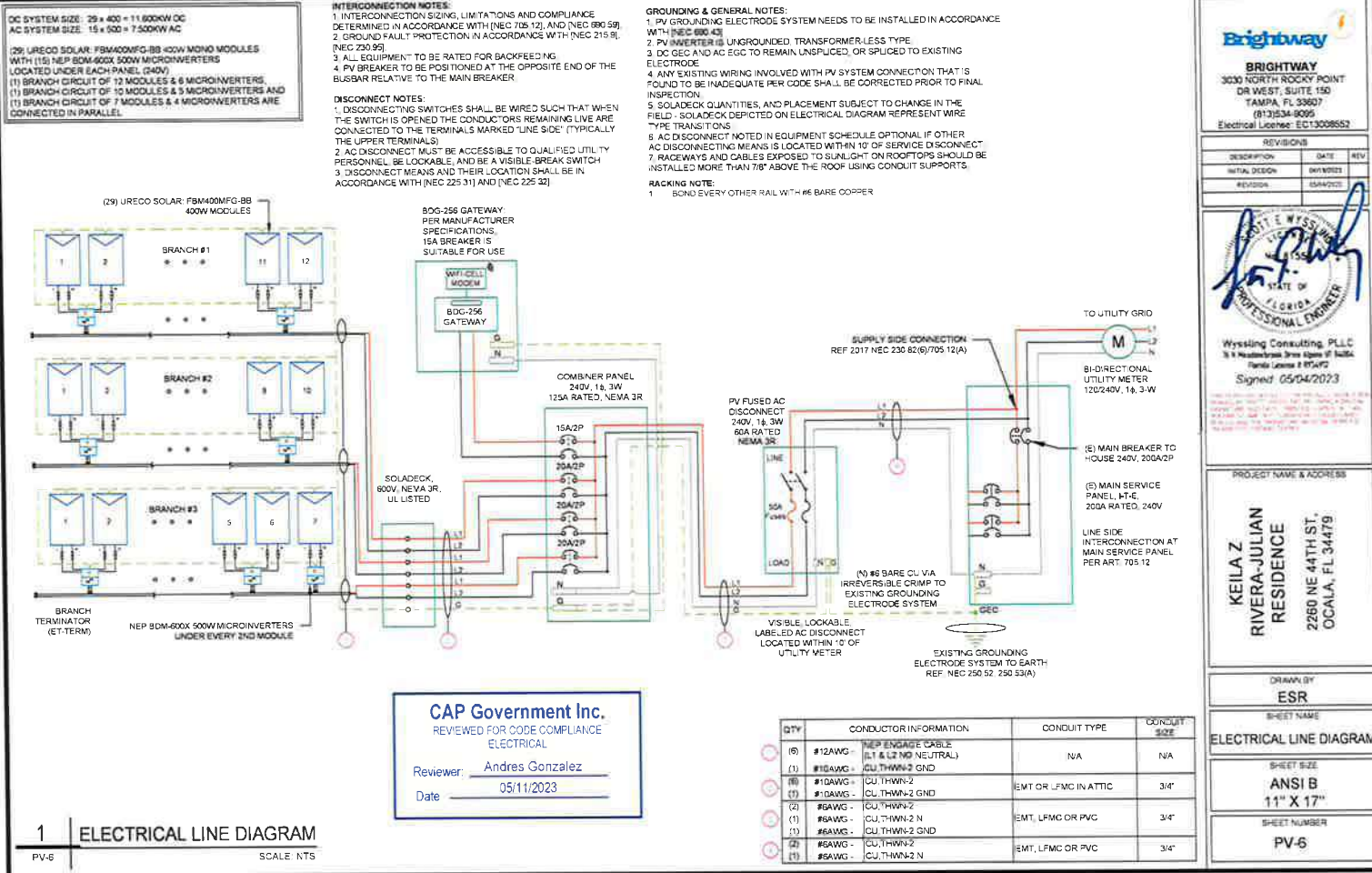
RESULTED ONLY

AVAILABLE TO REQUEST

CODE	DESCRIPTION	REQUEST DATE	RESULT DATE	RESULT
108	108 FINAL STRUCTURAL	6/6/2023	6/6/2023	(90) APPROVED
203	203 FINAL ELECTRIC NO	6/6/2023	6/6/2023	(90) APPROVED
208	208 ROUGH ELECTRIC	6/6/2023	6/6/2023	(90) APPROVED



Permit Number: 2023042586



Permit Number: 2023042586



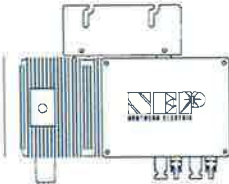
BDM-600X MICROINVERTER



Features

- Low cost \$/watt micro inverter
- High continuous output power up to 580Wac, recommended for dual max 450W solar panel
- High efficiency with 95.5% CEC
- Globally certified for UL1741, SAA, TUV, VDE-AR-N 4105, VDE 0126, G83/2, CEL 021, IEC61727, EN50438, ABNT NBR 6149/16150
- Integrated grounding for easy installation
- NEMA-6/IP-66/IP-67 enclosure rating
- Integrated monitoring and power line communication with RDC-256 gateway
- Can connect with BDM-300 and BDM-250





10.91"

1.97"

5.20"



Important product information

- NEP is committed to developing Clean, Affordable, Reliable and Efficient (CARE) products for our customers worldwide.
- NEP microinverters have an isolation transformer and basic isolation between the DC input and the AC output network.

CAP Government Inc.
REVIEWED FOR CODE COMPLIANCE
STRUCTURAL

Reviewer: CJ Dupre
Date: 05/11/2023

CAP Government Inc.
REVIEWED FOR CODE COMPLIANCE
ELECTRICAL

Reviewer: Andres Gonzalez
Date: 05/11/2023



BRIGHTWAY
3030 NORTH ROCKY POINT
DR WEST, SUITE 150
TAMPA, FL 33607
(813)534-9085
Electrical License: EC13006552

REVISIONS		
DESCRIPTION	DATE	REV
INITIAL DESIGN	04/19/2023	
REVISION	04/19/2023	A

PROJECT NAME & ADDRESS

**KEILA Z
RIVERA-JULIAN
RESIDENCE**
2260 NE 44TH ST,
OCALA, FL 34479

DRAWN BY
ESR

SHEET NAME
**EQUIPMENT
SPECIFICATION**

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

SHEET NUMBER
PV-12

Permit Number: 2023042586



BDM-600X
MICROINVERTER



* Grid parameters are configurable through a BDG-259 or BDG-258P3 gateway
* All NEC required adjustment factors have been considered for AC outputs. AC current outputs will not exceed stated values for Rated Output AC Current

COMPLIANCE
*NEC 2020 Section 690.11 DC Arc-Fault Circuit Protection
*NEC 2020 Section 690.12 Rapid Shutdown of PV Systems on Buildings
*NEC 2020 Section 705.12 Point of Connection (AC Arc-Fault Protection)

INPUT(DC)	Recommended Max PV Power (Wp)	450 x 2		
	Max DC Open Circuit Voltage (Vdc)	60		
	Max DC Input Current (Adc)	14 x 2		
	MPPT Tracking Accuracy	±99.5%		
	MPPT Tracking Range (Vdc)	22-55		
	Isc PV (absolute maximum) (Adc)	18 x 2		
	Maximum Inverter Backfeed Current to the Array (Adc)	0		
OUTPUT (AC)	Peak AC Output Power (Wp)	580 (continuous)		
	Rated AC Output Power (Wp)	500		
	Nominal Power Grid Voltage (Vac)	240	208	230
	Allowable Power Grid Voltage (Vac)	218-264*	183-229*	configurable*
	Allowable Power Grid Frequency (Hz)	59.3 to 60.5* configurable*		
	THD	<3% (at rated power)		
	Power Factor (cos phi, fixed)	±0.99 (at rated power)		
	Rated Output Current (Aac)	2.28	2.78	2.52
	Current (inrush) (Peak and Duration)	24A, 15us		
	Nominal Frequency (Hz)	60		50
	Maximum Output Fault Current (Aac)	4.4A peak		
	Maximum Output Overcurrent Protection (Aac)	10		
	Maximum Number of Units Per Branch (20A) (All NEC adjustment factors have been considered)	7	6	6
	Weighted Averaged Efficiency (CEC)	95.50%		
SYSTEM EFFICIENCY	Night Time Tare Loss (Wp)	0.11		
	Over/Under Voltage Protection	Yes		
	Over/Under Frequency Protection	Yes		
	Anti-Islanding Protection	Yes		
	Over Current Protection	Yes		
	Reverse DC Polarity Protection	Yes		
	Overload Protection	Yes		
	Protection Degree	NEMA-6 / IP-66 / IP-67		
	Ambient Temperature	-40°F to +49°F (-40°C to +65°C)		
	Operating Temperature	-40°F to +85°F (-40°C to +85°C)		
	Display	LED LIGHT		
	Communications	Power Line		
	Dimension (W-H-D)	10.91"x5.20"x1.97" (277x132x50 mm)		
	Weight	6.4 lbs (2.9 kg)		
	Environment Category	Indoor and outdoor		
PROTECTION FUNCTIONS	Wet Location	Suitable		
	Pollution Degree	PD 3		
	Installation Voltage Category	III (PV), III (AC MAINS)		
	UL 1741 CSA C22.2 No. 107.1	IEC/EN 62109-1 IEC/EN 62109-2		
	Product Safety Compliance	VDE-AR-N 4105* VDE V 0126-1-1/A1 C83/2, C81/21 AS 4777.2 & AS 4777.3 EN50436 ABNT NBR 16149/1615		
	Grid Code Compliance* (Refer to the label for the detailed grid code compliance)	IEEE 1547		
	Reviewer: CJ Dupre			
	Date: 05/11/2023			
	CAP Government Inc. REVIEWED FOR CODE COMPLIANCE STRUCTURAL			
	CAP Government Inc. REVIEWED FOR CODE COMPLIANCE ELECTRICAL			

BRIGHTWAY
3030 NORTH ROCKY POINT
DR WEST, SUITE 150
TAMPA, FL 33607
(813)534-8059
Electrical License: EC13008552

REVISIONS		
DESCRIPTION	DATE	REV
INITIAL DESIGN	04/10/2023	
REVISION	05/04/2023	A

PROJECT NAME & ADDRESS

KEILA Z
RIVERA-JULIAN
RESIDENCE
2260 NE 44TH ST.
OCALA, FL 34479

DRAWN BY

ESR

SHEET NAME
EQUIPMENT
SPECIFICATION

SHEET SIZE
ANSI B
11" X 17"

SHEET NUMBER
PV-13



Kin Interinsurance Network

P.O. Box 95241
Chicago, IL 60694-5241

Producer Name
Kin Insurance Network
Distributor, LLC

Policy Number
KIN-HO-FL-292154039

Policy Period
11/01/2022 to 11/01/2023

Homeowners Policy Declarations

Policy underwritten by Kin Interinsurance Network

Your Declarations Page shows at a glance the coverage you have and your premium. Please read your policy carefully, including your Declarations Page and any attached Endorsements, for a complete description of your coverage.

AGENCY INFO			
AGENCY NAME Kin Insurance Network Distributor, LLC		AGENCY NUMBER 1	AGENCY EMAIL support@kin.com
ADDRESS 222 Merchandise Mart Plaza, Suite 228 Chicago IL 60654 For Payments, please use this address: KIN INTERINSURANCE NETWORK P.O. Box 95241 Chicago, IL 60694-5241		PHONE (855) 717-0022	
NAMED INSURED		SECOND NAMED INSURED	
NAME Keila Rivera		NAME Miguel Camacho	
DATE OF BIRTH	PHONE (407) 994-3075	DATE OF BIRTH	PHONE
EMAIL chefakeila@gmail.com		EMAIL	
POLICY PERIOD		PROPERTY ADDRESS	
START DATE 11/01/2022	END DATE 11/01/2023	2260 NE 44th St Ocala, FL 34479-2579	
12:01 AM Standard Time at the residence premises This policy applies only to accidents, "occurrences", or losses which happen during the policy period shown above, unless otherwise noted in the policy. If the policy is written on a continuous basis, each period of one year ending on the anniversary date of this policy constitutes a separate policy period.		MAILING ADDRESS	
DATE ISSUED 10/27/2021			


Kin Interinsurance Network

P.O. Box 95241
Chicago, IL 60694-5241

Producer Name
Kin Insurance Network
Distributor, LLC

Policy Number
KIN-HO-FL-292154039

Policy Period
11/01/2022 to 11/01/2023

REPORT A CLAIM

Email	claims@kin.com
Website	kin.com/claims
Phone Number	(866) 204-2219

PROPERTY COVERAGES

Section I Coverages	Limit Of Liability
A. Dwelling	\$190,000
B. Other Structure	\$19,000
C. Personal Property	\$76,000
D. Loss of Use	\$38,000

LIABILITY COVERAGES

Section II Coverages	Limit Of Liability
E. Personal Liability	\$300,000
F. Medical Payments	\$5,000

DEDUCTIBLES

All Other Perils	\$1,000
Calendar Year Hurricane Deductible	\$3,800 (2% of Coverage A)

This policy contains a separate deductible for hurricane losses, and a separate deductible for all other perils, insured against. The deductibles shown in your policy declaration page(s) are the deductibles that will apply as described in your policy, in the event of a covered loss. Other deductibles may be available. Please contact your insurance agent for additional information.

Permit Number: 2023042586

PHOTOVOLTAIC ROOF MOUNT SYSTEM

29 MODULES-ROOF MOUNTED - 11.600 KW DC, 7.500 KW AC

2260 NE 44TH ST, OCALA, FL 34479



BRIGHTWAY
3030 NORTH ROCKY POINT
DR WEST, SUITE 150
TAMPA, FL 33607
(813)534-9065
Electrical License: EC13008552

REVISIONS

DESCRIPTION	DATE	REV
INITIAL DESIGN	04/11/2023	1
REVISION	05/04/2023	2



Keila Z. Rivera-Julian
Professional Engineer
Wysling Consulting, PLLC
10 S. Henderson Ave. Suite 100
Tampa, FL 33606
Signed: 05/04/2023

PROJECT NAME & ADDRESS

**KEILA Z. RIVERA-JULIAN
RESIDENCE**
2260 NE 44TH ST.
OCALA, FL 34479

DRAWN BY
ESR

SHEET NAME
COVER SHEET

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

SHEET NUMBER
PV-1

PROJECT DATA

GENERAL NOTES

VICINITY MAP

PROJECT ADDRESS: 2260 NE 44TH ST, OCALA, FL 34479
OWNER: KEILA Z. RIVERA-JULIAN
DESIGNER: ESR
SCOPE: 11.600 KW DC ROOF MOUNT SOLAR PV SYSTEM WITH 29 URECO SOLAR: FBM400MFG-BB 400W PV MODULES WITH 15 NEP BDM-600X 500W MICROINVERTERS

AUTHORITIES HAVING JURISDICTION:
BUILDING: MARION COUNTY
ZONING: MARION COUNTY
UTILITY: CITY OF OCALA

SHEET INDEX

- PV-1 COVER SHEET
- PV-2 SITE PLAN
- PV-3 ROOF PLAN & MODULES
- PV-4 ELECTRICAL PLAN
- PV-5 STRUCTURAL DETAIL
- PV-6 ELECTRICAL LINE DIAGRAM
- PV-7 WIRING CALCULATIONS
- PV-8 LABELS
- PV-9 PLACARD
- PV-10 MICRO INVERTER CHART
- PV-11 EQUIPMENT SPECIFICATIONS

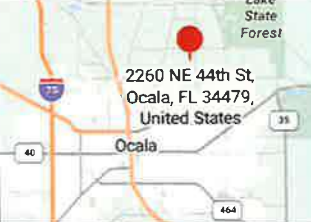
SIGNATURE

[Signature Line]

- ALL COMPONENTS ARE UL LISTED AND CEC CERTIFIED, WHERE WARRANTED.
- THE SOLAR PV SYSTEM WILL BE INSTALLED IN ACCORDANCE WITH ARTICLE 690 OF THE NEC 2017.
- THE UTILITY INTERCONNECTION APPLICATION MUST BE APPROVED AND PV SYSTEM INSPECTED PRIOR TO PARALLEL OPERATION.
- ALL CONDUCTORS OF A CIRCUIT, INCLUDING THE EGC, MUST BE INSTALLED IN THE SAME RACEWAY, OR CABLE, OR OTHERWISE RUN WITH THE PV ARRAY CIRCUIT CONDUCTORS WHEN THEY LEAVE THE VICINITY OF THE PV ARRAY.
- WHERE METALLIC CONDUIT CONTAINING DC CONDUCTORS IS USED INSIDE THE BUILDING, IT SHALL BE IDENTIFIED AS "CAUTION: SOLAR CIRCUIT" EVERY 10FT.
- HEIGHT OF THE AC DISCONNECT SHALL NOT EXCEED 6'-7" PER NEC CODE 240.24.
- A GROUNDING ELECTRODE SYSTEM IN ACCORDANCE WITH CEC 690.47 AND 250.50 THROUGH 60 AND 250.166 SHALL BE PROVIDED. PER NEC GROUNDING ELECTRODE SYSTEM OF EXISTING BUILDING MAY BE USED AND BONDED TO THE SERVICE ENTRANCE. IF EXISTING SYSTEM IS INACCESSIBLE OR INADEQUATE A SUPPLEMENTAL GROUNDING ELECTRODE WILL BE USED AT THE INVERTER LOCATION CONSISTING OF A UL LISTED 8 FT. GROUND ROD WITH ACORN CLAMP. GROUNDING ELECTRODE CONDUCTORS SHALL BE NO LESS THAN #6 AWG AND NO LARGER THAN #6 AWG COPPER AND BONDED TO THE EXISTING GROUNDING ELECTRODE TO PROVIDE FOR A COMPLETE SYSTEM.
- PHOTOVOLTAIC MODULES ARE TO BE CONSIDERED NON-COMBUSTIBLE.
- PHOTOVOLTAIC INSTALLATION WILL NOT OBSTRUCT ANY PLUMBING, MECHANICAL, OR BUILDING ROOF VENTS.
- ALL WIRING MUST BE PROPERLY SUPPORTED BY DEVICES OR MECHANICAL MEANS DESIGNED AND LISTED FOR SUCH USE. WIRING MUST BE PERMANENTLY AND COMPLETELY KEPT OFF THE ROOF SURFACE.
- ALL SIGNAGE TO BE PLACED IN ACCORDANCE WITH THE LOCAL BUILDING CODE. IF EXPOSED TO SUNLIGHT, IT SHALL BE UV RESISTANT. ALL PLAQUES AND SIGNAGE WILL BE INSTALLED AS REQUIRED BY THE NEC AND AHJ.
- INVERTER(S) USED IN UNGROUNDED SYSTEM SHALL BE UL 1741 LISTED.
- THE INSTALLATION OF EQUIPMENT AND ALL ASSOCIATED WIRING AND INTERCONNECTION SHALL BE PERFORMED ONLY BY QUALIFIED PERSONS (NEC 690.4(C)).
- ALL OUTDOOR EQUIPMENT SHALL BE NEMA 3R RATED (OR BETTER), INCLUDING ALL ROOF MOUNTED TRANSITION BOXES AND SWITCHES.
- ALL EQUIPMENT SHALL BE PROPERLY GROUNDED AND BONDED IN ACCORDANCE WITH NEC ARTICLE 250.
- SYSTEM GROUNDING SHALL BE IN ACCORDANCE WITH NEC 690.41.
- PV SYSTEM CIRCUITS INSTALLED ON OR IN BUILDINGS SHALL INCLUDE A RAPID SHUTDOWN FUNCTION IN ACCORDANCE WITH NEC 690.12.
- DISCONNECTING MEANS SHALL BE LOCATED IN A VISIBLE, READILY ACCESSIBLE LOCATION WITHIN THE PV SYSTEM EQUIPMENT OR A MAXIMUM OF 10 FEET AWAY FROM THE SYSTEM (NEC 690.13(A)).
- ALL WIRING METHODS SHALL BE IN ACCORDANCE WITH NEC 690.31.
- WORK CLEARANCES AROUND ELECTRICAL EQUIPMENT WILL BE MAINTAINED PER NEC 110.26(A)(1), 110.26(A)(2) AND 110.26(A)(3).
- ROOFTOP MOUNTED PHOTOVOLTAIC SYSTEMS AND MODULES SHALL BE TESTED, LISTED & IDENTIFIED IN ACCORDANCE WITH UL1703.
- ELECTRICAL CONTRACTOR TO PROVIDE GROUNDING JOINTS AND ANCHOR CONDUIT RUNS AS REQUIRED PER NEC.

CAP Government Inc.
REVIEWED FOR CODE COMPLIANCE

Reviewer: CJ Dupre
Date: 05/11/2023



HOUSE PHOTO



CODE REFERENCES

PROJECT TO COMPLY WITH THE FOLLOWING:
FLORIDA RESIDENTIAL CODE, 7TH EDITION 2020 (FRC)
FLORIDA BUILDING CODE, 7TH EDITION 2020 (FBC)
FLORIDA MECHANICAL CODE, 7TH EDITION 2020 (FMC)
2017 NATIONAL ELECTRICAL CODE
FLORIDA FIRE PREVENTION CODE, 7TH EDITION 2020 (FFPC)

Permit Number: 2023042586

PROJECT DESCRIPTION:

29 X URECO SOLAR: FBM400WFG-BB 400W MONO MODULES
ROOF MOUNTED SOLAR PHOTOVOLTAIC MODULES
DC SYSTEM SIZE: 29 x 400 = 11,600KW DC
AC SYSTEM SIZE: 15 x 500 = 7,500KW AC
EQUIPMENT SUMMARY
29 URECO SOLAR: FBM400WFG-BB 400W MONO MODULES
15 NEP BDM-600X 500W MICROINVERTERS

ROOF ARRAY AREA #1: 609.29 SQ. FT.

NOTE: VISIBLE, LOCKABLE, LABELED AC DISCONNECT
LOCATED WITHIN 10' OF UTILITY METER

CAP Government Inc.

REVIEWED FOR CODE COMPLIANCE
STRUCTURAL

Reviewer: Cj Dupre
Date: 05/11/2023

DESIGN SPECIFICATION
OCCUPANCY: II
CONSTRUCTION: SINGLE-FAMILY
ZONING: RESIDENTIAL
GROUND SNOW LOAD: REFER STRUCTURAL LETTER
WIND EXPOSURE: REFER STRUCTURAL LETTER
WIND SPEED: REFER STRUCTURAL LETTER



Brightway

BRIGHTWAY

3030 NORTH ROCKY POINT
DR WEST SUITE 150
TAMPA, FL 33607
(813)534-9095
Electrical License: EC12008552

DESCRIPTION	DATE	REV
INITIAL DESIGN	04/18/2023	
REVISION	05/04/2023	

Professional Engineer
STATE OF FLORIDA
Wysling Consulting, PLLC
10 S. Henderson Ave. Suite 100
Tampa, FL 33603
Signed: 05/04/2023

PROJECT NAME & ADDRESS

KEILA Z
RIVERA-JULIAN
RESIDENCE
2280 NE 44TH ST.
OCALA, FL 34479

DRAWN BY
ESR

SHEET NAME
SITE PLAN

SHEET SIZE
ANSI B
11" X 17"

SHEET NUMBER
PV-2

1

SITE PLAN

PV-2

SCALE: 1/16" = 1'-0"

The site plan shows a residential property bounded by NE 44th St to the north, NE 22nd Ct to the west, and a property line to the east and south. The property dimensions are 151.81' wide and 90.01' deep. The house is a 1-story structure with a chimney. A shed is located to the south of the house. A detached structure is located to the east of the shed. A solar array is located on the roof of the house, with a note indicating it is under every 2nd module. The solar array is labeled 'ROOF #1' and '29 X URECO SOLAR: FBM400WFG-BB 400W MONO MODULES WITH NEP BDM-600X 500W MICROINVERTERS'. Other features include trees, a fence, and a utility meter. The utility meter is labeled '(N) VISIBLE, LOCKABLE, LABELED FUSED AC DISCONNECT (LOCATED WITHIN 10' OF UTILITY METER)'. The main service panel is labeled '(E) MAIN SERVICE PANEL (INSIDE GARAGE)'. The combiner panel is labeled '(N) COMBINER PANEL'. The property line is labeled 'PROPERTY LINE'. The existing driveway is labeled 'EXISTING DRIVEWAY'. The detached structure is labeled '(E) DETACHED STRUCTURE'. The fence is labeled '(E) FENCE'. The shed is labeled '(E) SHED'. The house is labeled '1-STORY HOUSE'. The chimney is labeled '(E) CHIMNEY'. The trees are labeled '(E) TREES'. The dimensions are 151.81', 90.01', 176.61', 67.10', and 35.40'.

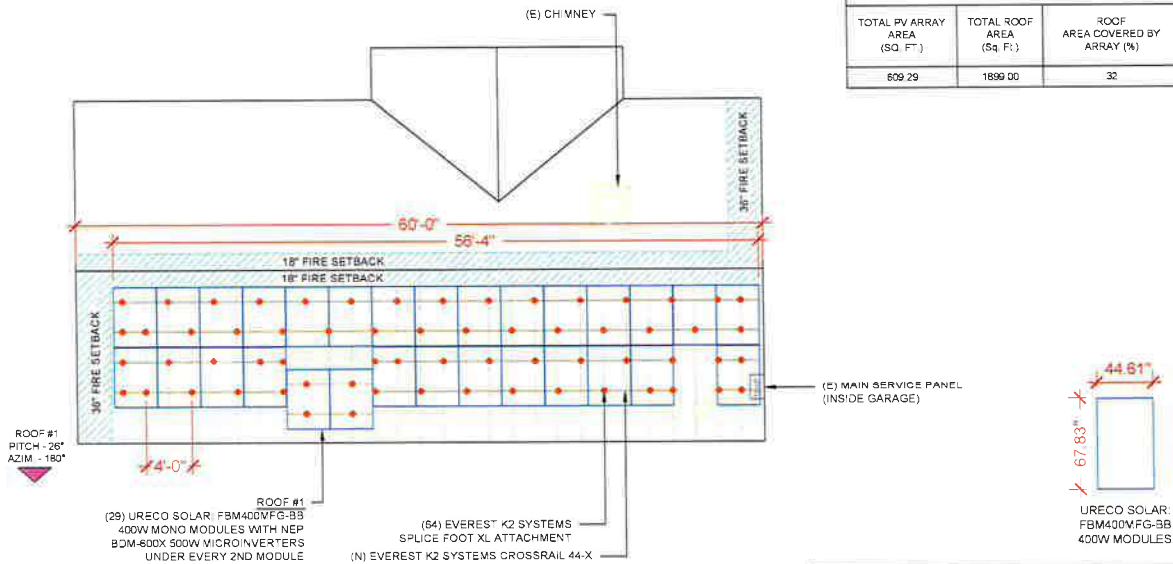
Permit Number: 2023042586

MODULE TYPE, DIMENSIONS & WEIGHT

NUMBER OF MODULES = 29 MODULES
MODULE TYPE = URECO SOLAR: FBM400VFG-BB 400W MONO MODULES
MODULE WEIGHT = 47.84 LBS / 21.7KG
MODULE DIMENSIONS = 67.83" x 44.61" = 21.01 SF

CAP Government Inc.
REVIEWED FOR CODE COMPLIANCE
STRUCTURAL

Reviewer: CJ Dupre
Date: 05/11/2023



ROOF DESCRIPTION					
ROOF TYPE		ASPHALT SH NGL			
ROOF LAYER		1 LAYER			
ROOF	# OF MODULES	ROOF PITCH	AZIMUTH	TRUSS SIZE	TRUSS SPACING
#1	29	26°	180°	2"x4"	24"

ARRAY AREA & ROOF AREA CALC'S		
TOTAL PV ARRAY AREA (SQ. FT.)	TOTAL ROOF AREA (SQ. FT.)	ROOF AREA COVERED BY ARRAY (%)
609.29	1899.00	32

BRIGHTWAY
3030 NORTH ROCKY POINT
DR WEST, SUITE 150
TAMPA, FL 33607
(813)534-9095
Electrical License: EC13008552

REVISIONS		
DESCRIPTION	DATE	REV
INITIAL DESIGN	04/08/2023	
REVISION	05/04/2023	

Wysling Consulting, PLLC
1011 Henderson Hwy, Suite 101
Ocala, FL 34479
Signed: 05/04/2023

PROJECT NAME & ADDRESS

KEILA Z
RIVERA-JULIAN
RESIDENCE
2280 NE 44TH ST.,
OCALA, FL 34479

DRAWN BY
ESR

SHEET NAME
ROOF PLAN & MODULES

SHEET SIZE
ANSI B
11" X 17"

SHEET NUMBER
PV-3

- BDM-600X MICROINVERTERS

- SOLADECK

- PV PRODUCTION METER

- COMBINER PANEL

- AC DISCONNECT

- SOLAR LOAD CENTER

- UTILITY METER

- MAIN SERVICE PANEL

- INVERTER

- JUNCTION BOX

- VENT. ATT.C FAN (ROOF OBSTRUCTION)

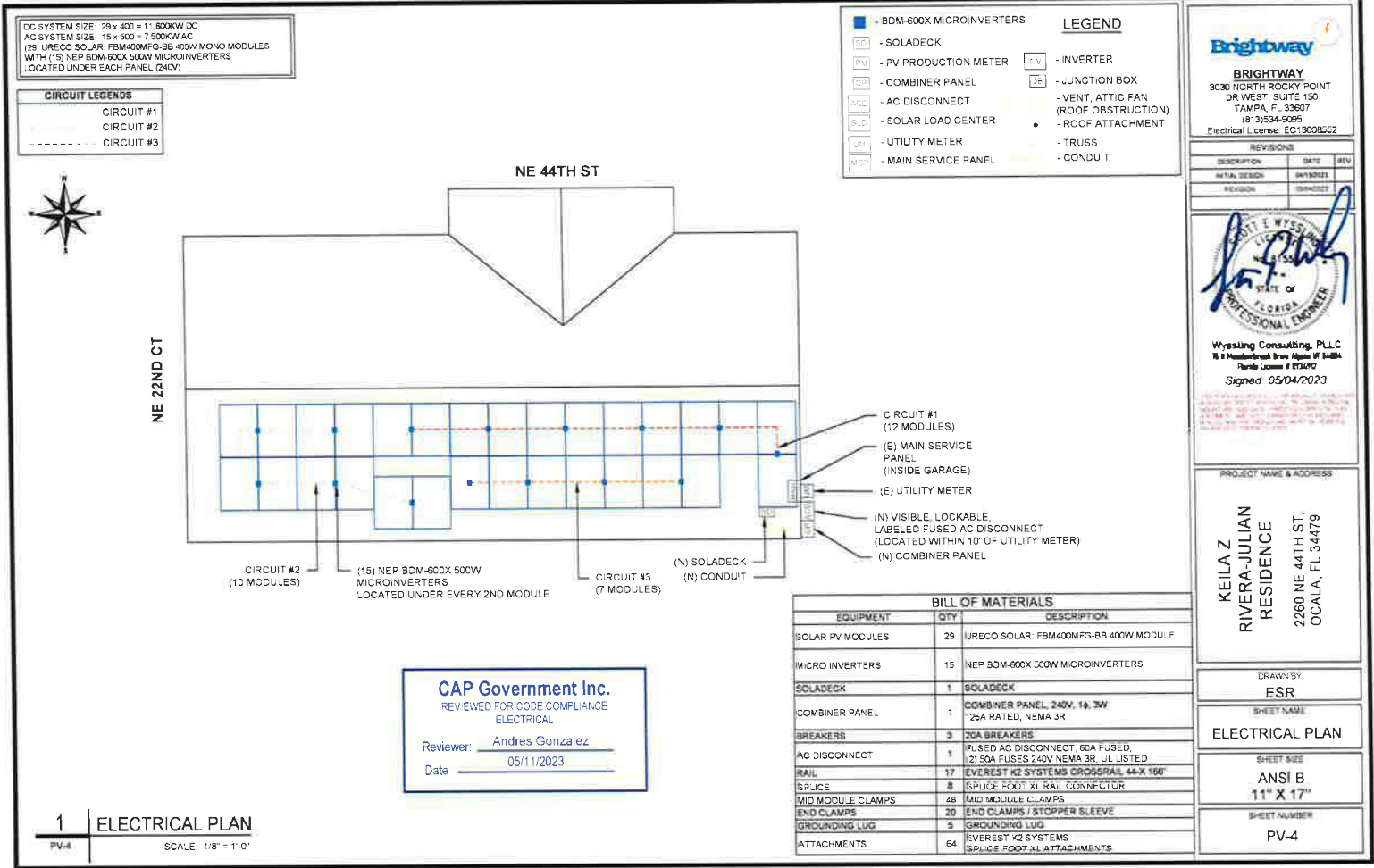
- ROOF ATTACHMENT

- TRUSS

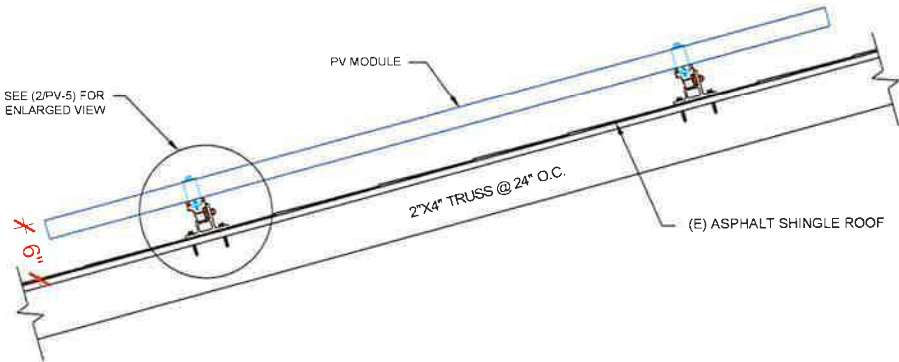
- CONDUIT

LEGEND

Permit Number: 2023042586



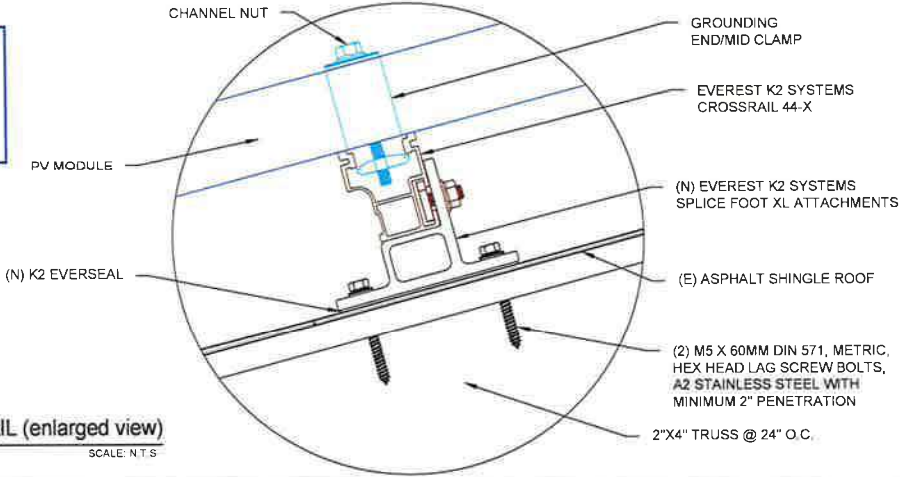
Permit Number: 2023042586



1 STRUCTURAL ATTACHMENT (SIDE VIEW)
PV-5 SCALE: N.T.S.

CAP Government Inc.
REVIEWED FOR CODE COMPLIANCE
STRUCTURAL

Reviewer: CJ Dupre
Date: 05/11/2023



2 ATTACHMENT DETAIL (enlarged view)
PV-5 SCALE: N.T.S.

Brightway

BRIGHTWAY
3030 NORTH ROCKY POINT
DR WEST, SUITE 150
TAMPA, FL 33607
(813)534-9096
Electrical License: EC13008652

REVISIONS		
DESCRIPTION	DATE	REV
INITIAL DESIGN	04/19/2023	
REVISION	05/04/2023	

[Signature]
Wysling Consulting, PLLC
3115 Henderson Drive, Suite 102, Suite 102
Florida License: #170472
Signed: 05/04/2023

PROJECT NAME & ADDRESS

KEILA Z
RIVERA-JULIAN
RESIDENCE
2260 NE 44TH ST.,
OCALA, FL 34479

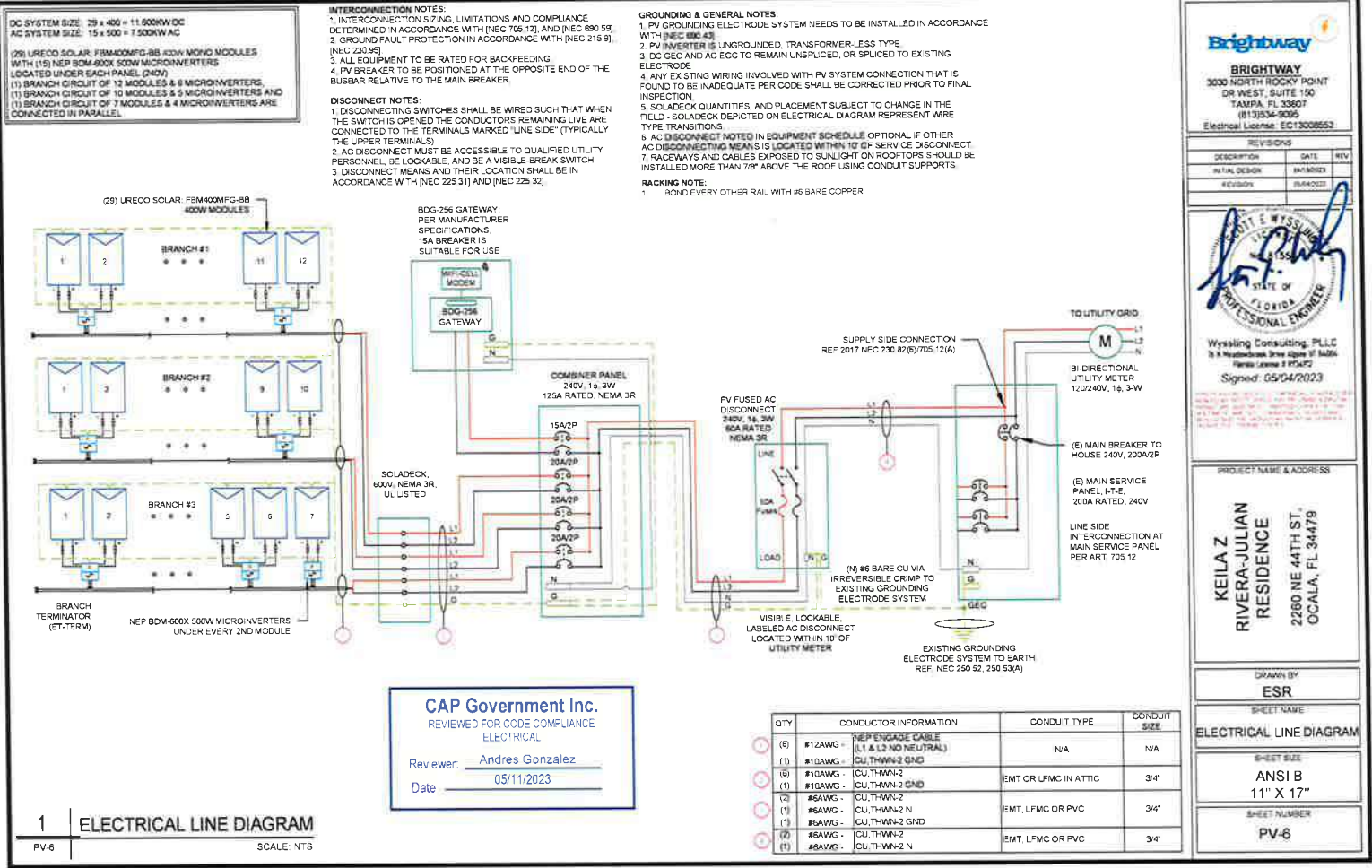
DRAWN BY
ESR

SHEET NAME
STRUCTURAL DETAIL

SHEET SIZE
ANSI B
11" X 17"

SHEET NUMBER
PV-5

Permit Number: 2023042586



Permit Number: 2023042586

INVERTER SPECIFICATIONS

MANUFACTURER / MODEL #

NRP 80M-600X 500W MICROINVERTERS

MIN/MAX DC VOLT RATING

80V MAX

MAX INPUT POWER

4000W

NOMINAL AC VOLTAGE RATING

240V/211-264V

MAX AC CURRENT

2.88A

MAX MODULES PER CIRCUIT

14 (SINGLE PHASE)

MAX OUTPUT POWER

500 VA

SOLAR MODULE SPECIFICATIONS

MANUFACTURER / MODEL #

LRECO SOLAR: FBW400MFG-BB 400W MODULE

VMP

31.17V

IMP

12.84A

VOC

37.20V

ISC

13.68A

TEMP COEFF. VOC

-0.27%/C

MODULE DIMENSION

67.62" x 44.61" W x 1.38"D (H) (IN)

AMBIENT TEMPERATURE SPECS

RECORD LOW TEMP

-5*

AMBIENT TEMP (HIGH TEMP 2%)

36*

MODULE TEMPERATURE COEFFICIENT OF V_{OC}

-0.27%/C

PERCENT OF VALUES

NUMBER OF CURRENT CARRYING CONDUCTORS IN EMT

30

4-6

70

7-8

90

10-20

AC CALCULATIONS

CIRCUIT ORIGIN	CIRCUIT DESTINATION	VOLTAGE (V)	FULL LOAD AMPS "FLA" (A)	FLA*1.25 (A)	OCED SIZE (A)	NEUTRAL SIZE	GROUND SIZE	CONDUCTOR SIZE	75°C AMPACITY (A)	AMPS/CIRCUIT CHECK #1	AMBIENT TEMP. (°F)	TOTAL CC CONDUCTORS IN RACEWAY	90°C AMPACITY (A)	DERATION FACTOR FOR AMBIENT TEMPERATURE (NEC 90.5)(24)	DERATION FACTOR FOR CONDUCTORS TEMPERATURE (NEC 90.5)(1)(14)	90°C AMPACITY DERATED (A)	AMPS/CIRCUIT CHECK #2	FEEDER LENGTH (FEET)	CONDUCTION RESISTANCE (OHM/FT)	VOLTAGE DROP AT FLA (%)	CONDUIT SIZE	CONDUIT FILL (%)
CIRCUIT 1	SOLARDECK	240	11.68	14.60	20	N/A	CURB/RACEWAY	CURB/RACEWAY	25	PAWS	38	2	30	0.91	1	27.3	PAWS		0.28	N/A	100%	
CIRCUIT 2	SOLARDECK	240	11.68	14.60	20	N/A	CURB/RACEWAY	CURB/RACEWAY	25	PAWS	38	2	30	0.91	1	27.3	PAWS		0.28	N/A	100%	
CIRCUIT 3	SOLARDECK	240	11.68	14.60	20	N/A	CURB/RACEWAY	CURB/RACEWAY	25	PAWS	38	2	30	0.91	1	27.3	PAWS		0.28	N/A	100%	
SOLARDECK	COMBINED PANEL 1	240	13.68	17.10	20	N/A	CURB/RACEWAY	CURB/RACEWAY	25	PAWS	38	9	40	0.91	0.8	28.12	PAWS	28	1.24	0.283	3/4" EMT	17.11%
COMBINED PANEL 1	AC DISCONNECT	240	13.68	17.10	20	N/A	CURB/RACEWAY	CURB/RACEWAY	25	PAWS	38	9	40	0.91	0.8	28.12	PAWS	5	0.091	0.020	3/4" EMT	18.01%
AC DISCONNECT	BOH	240	13.68	17.10	20	N/A	CURB/RACEWAY	CURB/RACEWAY	25	PAWS	38	2	30	0.91	1	28.12	PAWS	5	0.091	0.020	3/4" EMT	18.01%

Circuit 3 Voltage Drop 1.48%

Circuit 2 Voltage Drop 1.17%

Circuit 1 Voltage Drop 1.06%



BRIGHTWAY
3030 NORTH ROCKY POINT
DR WEST, SUITE 150
TAMPA, FL 33607
(813)534-9095
Electrical License: EC13008552

DESCRIPTION	DATE	REV
INITIAL DESIGN	04/10/2023	
REVISION	05/04/2023	



Keila Z. Rivera-Julian
Professional Engineer
Signed: 05/04/2023

PROJECT NAME & ADDRESS

KEILA Z. RIVERA-JULIAN RESIDENCE
2280 NE 44TH ST.
OCALA, FL 34479

DRAWN BY

ESR

SHEET NAME

WIRING CALCULATIONS

SHEET SIZE

ANSI B 11" X 17"

SHEET NUMBER

PV-7

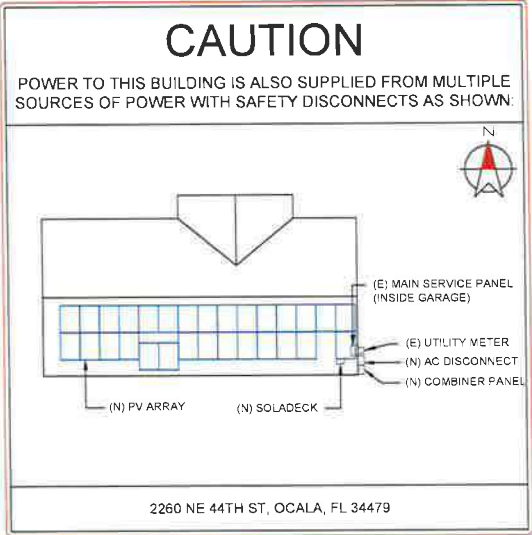
ELECTRICAL NOTES

- ALL EQUIPMENT TO BE LISTED BY UL OR OTHER NRTL, AND LABELED FOR ITS APPLICATION.
- ALL CONDUCTORS SHALL BE COPPER, RATED FOR 600 V AND 90 DEGREE C WET ENVIRONMENT.
- 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.
- WORKING CLEARANCES AROUND ALL NEW AND EXISTING ELECTRICAL EQUIPMENT SHALL COMPLY WITH NEC 110.26.
- DRAWINGS INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS. CONTRACTOR SHALL FURNISH ALL NECESSARY OUTLETS, SUPPORTS, FITTINGS AND ACCESSORIES TO FULFILL APPLICABLE CODES AND STANDARDS.
- WHERE SIZES OF SOLARDECK, RACEWAYS, AND CONDUITS ARE NOT SPECIFIED, THE CONTRACTOR SHALL SIZE THEM ACCORDINGLY.
- ALL WIRE TERMINATIONS SHALL BE APPROPRIATELY LABELED AND READILY VISIBLE.
- MODULE GROUNDING CLIPS TO BE INSTALLED BETWEEN MODULE FRAME AND MODULE SUPPORT RAIL, PER THE GROUNDING CLIP MANUFACTURER'S INSTRUCTION.
- MODULE SUPPORT RAIL TO BE BONDED TO CONTINUOUS COPPER G.E.C. VIA WEEB LUG OR ILSCO GBL-4DBT LAY-IN LUG.
- TEMPERATURE RATINGS OF ALL CONDUCTORS, TERMINATIONS, BREAKERS, OR OTHER DEVICES ASSOCIATED WITH THE SOLAR PV SYSTEM SHALL BE RATED FOR AT LEAST 75 DEGREE C.

CAP Government Inc.
REVIEWED FOR CODE COMPLIANCE
ELECTRICAL

Reviewer: Andres Gonzalez
Date: 05/11/2023

Permit Number: 2023042586



DIRECTORY
PERMANENT PLAQUE OR DIRECTORY PROVIDING THE LOCATION OF THE SERVICE DISCONNECTING MEANS AND THE PHOTOVOLTAIC SYSTEM.

(ALL PLAQUES AND SIGNAGE WILL BE INSTALLED AS OUTLINED WITHIN:
NEC 690.56(B)&(C), [NEC 705.10])
PER FFPC 11.12.2.1.4

LABELING NOTES:

1. LABELS CALLED OUT ACCORDING TO ALL COMMON CONFIGURATIONS. ELECTRICIAN TO DETERMINE EXACT REQUIREMENTS IN THE FIELD PER CURRENT NEC AND LOCAL CODES AND MAKE APPROPRIATE ADJUSTMENTS.
2. LABELING REQUIREMENTS BASED ON THE 2017 NATIONAL ELECTRIC CODE, OSHA STANDARD 1910.145, ANSI Z535.
3. MATERIAL BASED ON THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.
4. LABELS TO BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED [NEC 110.21]
5. LABELS TO BE A MINIMUM LETTER HEIGHT OF 3/8", WHITE ON RED BACKGROUND, REFLECTIVE, AND PERMANENTLY AFFIXED FFPC 11.12.2.1.2

CAP Government Inc.
REVIEWED FOR CODE COMPLIANCE
STRUCTURAL

Reviewer: CJ Dupre
Date: 05/11/2023

CAP Government Inc.
REVIEWED FOR CODE COMPLIANCE
ELECTRICAL

Reviewer: Andres Gonzalez
Date: 05/11/2023

Brightway

BRIGHTWAY
3030 NORTH ROCKY POINT
DR WEST, SUITE 150
TAMPA, FL 33607
(813)344-9006
Electrical License: EC13008552

REVISIONS		
DESCRIPTION	DATE	REV
INITIAL DESIGN	04/18/2023	
REVISION	05/04/2023	

[Signature]
WYSSLING CONSULTING, PLLC
10 N. HENDERSON DRIVE ALPHARETTA, GA 30201
Florida License # 854672
Signed: 05/04/2023

PROJECT NAME & ADDRESS
KEILA Z RIVERA-JULIAN RESIDENCE
2260 NE 44TH ST,
OCALA, FL 34479

DRAWN BY
ESR

SHEET NAME
PLACARD

SHEET SIZE
ANSI B 11" X 17"

SHEET NUMBER
PV-9

Permit Number: 2023042586



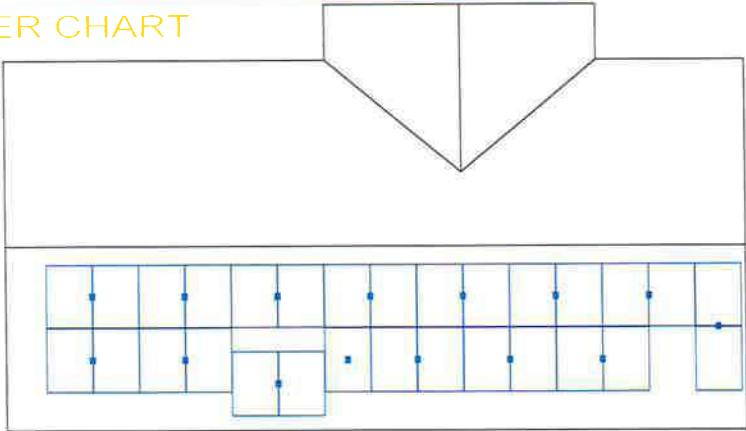
MICRO INVERTER CHART

CAP Government Inc.

REVIEWED FOR CODE COMPLIANCE
STRUCTURAL

Reviewer: CJ Dupre

Date: 05/11/2023





BRIGHTWAY
3030 NORTH ROCKY POINT
DR WEST, SUITE 150
TAMPA, FL 33607
(813) 534-9095
Electrical License: EC13008552

REVISIONS		
DESCRIPTION	DATE	REV
INITIAL DESIGN	04/18/2023	
REVISION	04/18/2023	A

PROJECT NAME & ADDRESS

KEILA Z
RIVERA-JULIAN
RESIDENCE
2260 NE 44TH ST.,
OCALA, FL 34479

DRAWN BY
ESR

SHEET NAME
MICRO INVERTER CHART

SHEET SIZE
ANSI B
11" X 17"

SHEET NUMBER
PV-10

Permit Number: 2023042586



United Renewable Energy Co., Ltd.



FBM_MFG-BB / 108 cells
390W - 405 W
Mono-Crystalline PV Module

URE Peach module uses URE state-of-the-art cell cutting technology, and advanced module manufacturing experiences.





Key Features

- Positive power tolerance +0 ~ +5 watt
- Withstand heavy loading front load 5400 Pa & rear load 2400 Pa
- Excellent low light performance 3.5% relative eff. Reduction at low (200W/m²)

CAP Government Inc.
REVIEWED FOR CODE COMPLIANCE
STRUCTURAL

Reviewer: CJ Dupre
Date: 05/11/2023

CAP Government Inc.
REVIEWED FOR CODE COMPLIANCE
ELECTRICAL

Reviewer: Andres Gonzalez
Date: 05/11/2023



URECO
United Renewable Energy Co., Ltd.

Electrical Data

	FBM_MFG-BB	FBM_MFG-BB	FBM_MFG-BB	FBM_MFG-BB
Model - SiC				
Maximum Rating Power (Pmax)	[W]	390	405	405
Module Efficiency	[%]	19.98	20.23	20.75
Open Circuit Voltage (Voc)	[V]	36.84	37.03	37.36
Maximum Power Voltage	[V]	30.42	31.00	31.16
Short Circuit Current (Isc)	[A]	11.50	11.59	11.68
Maximum Power Current	[A]	12.56	12.75	12.92

*Standard Test Condition (STC): Irradiance 1000 W/m², Temperature 25°C, Air Mass 1.5
*Actual output power and typical numbers in Requirements Section 2.7.

Mechanical Data

Item	Specification
Dimensions	1723 mm (L) x 1133 mm (W) x 35 mm (D) / 67.83" (L) x 44.61" (W) x 1.38" (D)
Weight	21.7 kg / 47.84 lbs
Solar Cell	120 cells mono-crystalline solar cells with strings
Front Glass	White tempered safety glass, 3.2mm thickness
Cell Encapsulation	EVA (ethylene-vinyl-acetate)
Frame	Black anodized aluminum profile
Junction Box	IP68, 1 diodes
Cable & Connector	Polarit: 500 mm (cable length can be customized), 1 x 4 mm compatible with MC4
Package Configuration	31 pcs/Per Pallet, 806 pcs per 40' HQ container

* with assembly tolerance of 0.5 mm (0.02")
* with assembly tolerance of 0.5 mm (0.02")

Operating Conditions

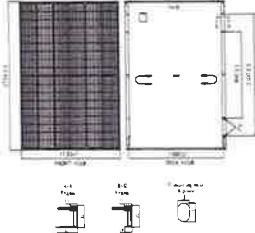
Item	Specification
Mechanical Load	5400 Pa
Maximum System Voltage	1500V
Series Fuse Rating	10 A
Operating Temperature	40 to 85 °C

Temperature Characteristics

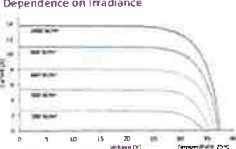
Item	Specification
Nominal Module Operating Temperature	45°C ± 2°C
Temperature Coefficient of Isc	0.048 %/°C
Temperature Coefficient of Voc	0.27 %/°C
Temperature Coefficient of Pmax	0.32 %/°C

*Nominal module operating temperature (NMOT) at max air 1.5, maximum wind speed at 25°C, windward 1 m/s
*Reduction in efficiency from 1000W/m² to 200W/m² at 25°C, 0.5 ± 1%

Engineering Drawing (mm)



Dependence on Irradiance



Reliability with Warranty



United Renewable Energy Co., Ltd.

Head Office: No. 2, Leihua 1st Road, Huzhou Science Park, Huzhou City 310716, Taiwan
Tel: +86(5) 509-2900
Fax: +86(5) 509-2901
E-mail: sales@ureco.com

For more information, please visit us at www.ureco.com

Headquarters: No. 2, Leihua 1st Road, Huzhou Science Park, Huzhou City 310716, Taiwan
Tel: +86(5) 509-2900
Fax: +86(5) 509-2901
E-mail: sales@ureco.com

Brightway
BRIGHTWAY
3030 NORTH ROCKY POINT
DR WEST, SUITE 150
TAMPA, FL 33607
(813)534-9095
Electrical License: EC13008552

REVISIONS

DESCRIPTION	DATE	REV
INITIAL DESIGN	04/10/2023	
REVISION	05/09/2023	A

PROJECT NAME & ADDRESS

KEILA Z
RIVERA-JULIAN
RESIDENCE
2280 NE 44TH ST,
OCALA, FL 34478

DRAWN BY
ESR

SHEET NAME
EQUIPMENT
SPECIFICATION

SHEET SIZE
ANSI B
11" X 17"

SHEET NUMBER
PV-11

Permit Number: 2023042586

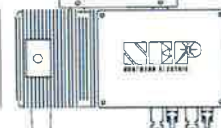
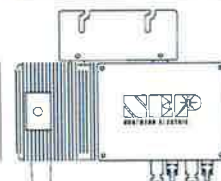


BDM-600X MICROINVERTER

Features

- Low cost \$/watt micro inverter
- High continuous output power up to 580Wac, recommended for dual max 450W solar panel
- High efficiency with 95.5% CEC
- Globally certified for UL1741, SAA, TUV, VDE-AR-N 4105, VDE 0126, G83/2, CEI, 021, IEC61727, EN50438, ABNT NBR 6149/16150
- Integrated grounding for easy installation
- NEMA-6/IP-66/IP-67 enclosure rating
- Integrated monitoring and power line communication with RDC-256 gateway
- Can connect with BDM-300 and BDM-250





Dimensions: 10.91" x 5.20" x 1.97"

Certifications: CE, TUV, SAA 152167, UL1741

Important product information

- NEP is committed to developing Clean, Affordable, Reliable and Efficient (CARE) products for our customers worldwide.
- NEP microinverters have an isolation transformer and basic isolation between the DC input and the AC output network.

CAP Government Inc.
REVIEWED FOR CODE COMPLIANCE
STRUCTURAL

Reviewer: CJ Dupre
Date: 05/11/2023

CAP Government Inc.
REVIEWED FOR CODE COMPLIANCE
ELECTRICAL

Reviewer: Andres Gonzalez
Date: 05/11/2023



BRIGHTWAY
3030 NORTH ROCKY POINT
DR WEST, SUITE 150
TAMPA, FL 33607
(813)334-9095
Electrical License: EC13008552

DESCRIPTION	DATE	REV
REVISIONS		
REVISION	05/10/23	1
REVISED BY	ANDRES GONZALEZ	

PROJECT NAME & ADDRESS

KEILA Z RIVERA-JULIAN
RESIDENCE
2260 NE 44TH ST.,
OCALA, FL 34479

DRAWN BY
ESR

SHEET NAME
EQUIPMENT
SPECIFICATION

SHEET SIZE
ANSI B
11" X 17"

SHEET NUMBER
PV-12

Permit Number: 2023042586



BDM-600X
MICROINVERTER



* Grid parameters are configurable through a BDG-256 or BDG-256P3 gateway
* All NEC required adjustment factors have been considered for AC outputs. AC current outputs will not exceed stated values for Rated Output AC Current

COMPLIANCE
*NEC 2020 Section 690.11 DC Arc-Fault Circuit Protection
*NEC 2020 Section 690.12 Rapid Shutdown of PV Systems on Buildings
*NEC 2020 Section 705.12 Point of Connection (AC Arc-Fault Protection)

INPUT(DC)	Recommended Max PV Power (Wp)	450 x 2		
	Max DC Open Circuit Voltage (Vdc)	60		
	Max DC Input Current (Adc)	14 x 2		
	MPPT Tracking Accuracy	>99.5%		
	MPPT Tracking Range (Vdc)	22-95		
	Isc PV (absolute maximum) (Adc)	18 x 2		
	Maximum Inverter Backfeed Current to the Array (Adc)	0		
OUTPUT (AC)	Peak AC Output Power (Wp)	580 (continuous)		
	Rated AC Output Power (Wp)	500		
	Nominal Power Grid Voltage (Vac)	240	208	230
	Allowable Power Grid Voltage (Vac)	210-264*	183-229*	configurable*
	Allowable Power Grid Frequency (Hz)	59.3 a 60.5* configurable*		
	THD	<3% (at rated power)		
	Power Factor (cos phi, fixed)	>0.99 (at rated power)		
	Rated Output Current (Aac)	2.28	2.78	2.52
	Current (inrush)(Peak and Duration)	24A, 15us		
	Nominal Frequency (Hz)	60	50	
	Maximum Output Fault Current (Aac)	4.4A peak		
	Maximum Output Overcurrent Protection (Aac)	10		
	Maximum Number of Units Per Branch (20A) (All NEC adjustment factors have been considered)	7	6	6
	SYSTEM EFFICIENCY	Weighted Averaged Efficiency (CEC)	95.50%	
Night Time Tare Loss (Wo)		0.11		
PROTECTION FUNCTIONS	Over/Under Voltage Protection	Yes		
	Over/Under Frequency Protection	Yes		
	Anti-Islanding Protection	Yes		
	Over Current Protection	Yes		
	Reverse DC Polarity Protection	Yes		
	Overload Protection	Yes		
	Protection Degree	NEMA-6 / IP-66 / IP-67		
	Ambient Temperature	-40°F to +49°F (-40°C to +85°C)		
	Operating Temperature	-20°F to +55°F (-40°C to +85°C)		
	Display	LED LIGHT		
	Communications	Power Line		
	Dimension (W-H-D)	Reviewer: Andres Gonzalez 10.91"x5.20"x1.97"(277x132x50 mm)		
	Weight	Date: 05/11/2023 6.4 lbs. (2.9 kg)		
	Environment Category	Indoor and outdoor		
	Wet Location	Suitable		
	Pollution Degree	PD 3		
	Installation Category	I (PV), III (AC MAINS)		
	CAP Government Use REVIEWED FOR CODE COMPLIANCE STRUCTURAL	Product Safety Compliance	UL 1741 CSA C22.2 No. 107.1	IEC/EN 62109-1 IEC/EN 62109-2
Grid Code Compliance* (Refer to the label for the detailed grid code compliance)		IEEE 1547	VDE-AR-N 4105* VDE V 0126-1-1A1 083/2, C3 021 AS 4777.2 & AS 4777.3 EN50438 ABNT NBR 16149/1615	
Reviewer: C.J Dupre		Date: 05/11/2023		



BRIGHTWAY
3030 NORTH ROCKY POINT
DR WEST, SUITE 150
TAMPA, FL 33607
(813)534-9095
Electrical License: EC13006552

REVISIONS		
DESCRIPTION	DATE	REV
INITIAL DESIGN	04/10/23	1
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PROJECT NAME & ADDRESS

KEILA Z
RIVERA-JULIAN
RESIDENCE
2260 NE 44TH ST,
OCALA, FL 34479

DRAWN BY
ESR

SHEET NAME
EQUIPMENT
SPECIFICATION

SHEET SIZE
ANSI B
11" X 17"

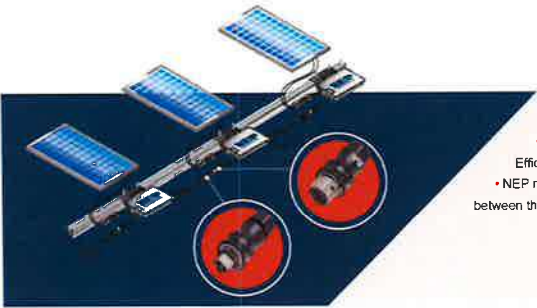
SHEET NUMBER
PV-13

Permit Number: 2023042586



Features

- Touch screen for user friendly interface
- Web portal interface for configuring BDM micro inverters
- Support MICROVIEWER local monitoring without internet service
- Support NEPVIEWER remote monitoring from anywhere at any time on any smart devices
- Touch screen provides instant readings on each individual inverters for trouble shooting
- Support USB interfaced bar codescanners for quick installation
- Support dual voltage (110/230 Vac) and dual frequency (50/60 Hz)
- Globally certified



CAP Government Inc.
REVIEWED FOR CODE COMPLIANCE
STRUCTURAL
Reviewer: CJ Dupre
Date: 05/11/2023



Important product information

- NEP is committed to developing Clean, Affordable, Reliable and Efficient (CARE) products for our customers worldwide.
- NEP microinverters have an isolation transformer and basic isolation between the DC input and the AC output network.

CAP Government Inc.
REVIEWED FOR CODE COMPLIANCE
ELECTRICAL
Reviewer: Andres Gonzalez
Date: 05/11/2023

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SPECIFICATION

SHEET SIZE

ANSI B
11" X 17"

SHEET NUMBER

PV-14

Permit Number: 2023042586



NEP
NORTHERN ELECTRIC

**GATEWAY
BDG-256**



CAP Government Inc.
REVIEWED FOR CODE COMPLIANCE
STRUCTURAL

Reviewer: CJ Dupre
Date: 05/11/2023

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ELECTRICAL

Reviewer: Andres Gonzalez
Date: 05/11/2023

COMMUNICATIONS INTERFACE

Communication with Micro Inverter	Power Line Communication
Ethernet	10/100 auto-sensing, auto-negotiation
USB	USB 2.0 interface, auto-sensing, auto-negotiation
Wi-Fi	Support (accessory required)
Monitoring capacity	255 micro inverters (depending on interference on power grid)

HUMAN INTERFACE

Display	LCD touch screen
---------	------------------

POWER REQUIREMENTS

AC inlet	100- 240 Vac, 50/60 Hz, 60mA
Power consumption	3.5 watts maximum

MECHANICAL DATA

Dimensions (W x H x D)	6.69" x 4.33" x 1.46" (170mm x 110 mm x 37 mm)
Weight	5.29 oz (150g)
Ambient temperature range	-40°C to +55°C (-40° to 131°F) -40°C to +49°C (-40° to 120°F) if installed in an enclosure
Cooling	Natural convection - no fans
Environmental rating	IP30. For installation indoors or in an NRTL-certified, NEMA type 3R enclosure.

FEATURES

Standard warranty term	1 Year
Compliance	UL 60950-1 2 nd Edition Rev Dec 19, 2011 CSA C22.2 2 nd Edition Rev Dec 19, 2011 FCC Part 15 Class B AS/NZS 60950.1:2011 Inc A1 AS/NZS CISPR 22: 2009+A1:2010 EN 60950-1:2006+A11:2009+A1:2010 +A12:2011 EN 55022:201 EN 61000-3-2:2006+A1:2009+A2:2009 EN 61000-3-3:2008 EN 55024:2010 EMC Directive 2004/108/EC



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**SHEET NAME
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SHEET SIZE

**ANSI B
11" X 17"**

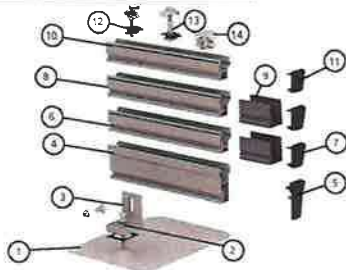
SHEET NUMBER

PV-15

Permit Number: 2023042586



CrossRail System



Item No.	Description	Part No.
1	EverFlash XP Comp Kit, Mill or Dark	4000960, 4000961, 4000957
2	Leg Bolt D145/16 x 4" SS	4000339
3	L-Foot XP Set, Mill or Dark	4000036, 4000038
4	CrossRail 80 166" Rail, Mill	4000508
5	CrossRail 80 End Cap, Black	4001221
6	CrossRail 48-XL 166", Mill or Dark	4000655, 4000705
7	CrossRail 48-X/48-XL End Cap or Flat End Cap	4000433, 4000431
8	CrossRail 48-X 166" or 180", Mill or Dark	4000652, 4000675, 4000663
9	CrossRail 48-X/48-XL 3" Sine	4000583
10	CrossRail 44-X 166", Mill or Dark	4000019, 4000020
11	CrossRail 44-X End Cap	4000067
12	CR Mid Clamp Silver or Dark	4000601-H, 4000602-H
13	CR End Clamp Silver or Dark	4000429, 4000430
14	Yeti Clamp (Hidden End Clamp)	4000050-H

www.everest-vo.com

CrossRail 44-X



Mechanical Properties

	CrossRail 44-X
Material	6000 Series Aluminum
Ultimate Tensile Strength	37.7 ksi (260 MPa)
Yield Strength	34.8 ksi (240 MPa)
Weight	0.47 lbs/ft (0.699 kg/m)
Finish	Mill or Dark Anodized

Section Properties

	CrossRail 44-X
Sx	0.1490 in ³ (0.3785 cm ³)
Sy	0.1450 in ³ (0.3683 cm ³)
A (X-Section)	0.4050 in (1.0287 cm)



Dimensions in (mm) Inches

- Notes:
- Structural values and span charts determined in accordance with Aluminum Design Manual and ASCE 7-16
 - UL2703 Listed System for Fire and Bonding

CAP Government Inc.
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STRUCTURAL

Reviewer: CJ Dupre
Date: 05/11/2023

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SHEET NAME
EQUIPMENT
SPECIFICATION

SHEET SIZE
ANSI B
11" X 17"

SHEET NUMBER
PV-16

Permit Number: 2023042586

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Splice Foot XL

Patent Pending

TECHNICAL SHEET

Item Number	Description	Part Number
1	Splice Foot XL	40001.60 Splice Foot XL, Kit, Mill
2	K2 EverSeal	
3	M5 x 60 lag screws	
4	T-Bolt & Hex Nut Set	

Technical Data

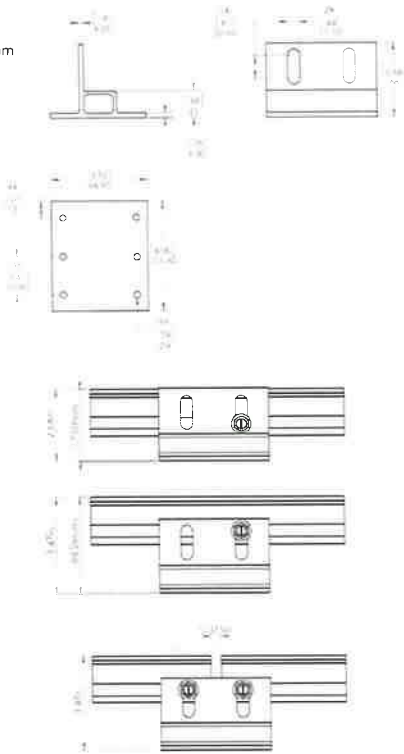
Splice Foot XL	
Roof Type	Composition shingle
Material	Aluminum with stainless steel hardware
Finish	Mill
Roof Connection	M5 x 60 lag screws
Code Compliance	UL 2703
Compatibility	CrossRail 44-X, 48-X, 48-XL, 60

k2-systems.com

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Units: [in] mm



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RESIDENCE
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SHEET NAME
EQUIPMENT
SPECIFICATION

SHEET SIZE

ANSI B
11" X 17"

SHEET NUMBER

PV-17

Permit Number: 2023042586

SolaDeck

FLASHED PV ROOF-MOUNT COMBINER/ENCLOSURE

Basic Features

- Stamped Seamless Construction
- 18 Gauge Galvanized Steel
- Powder Coated Surfaces
- Flashes into the roof deck
- 3 Roof deck knockouts: 5", .75", 1"
- 5 Centering dimples for entry/exit fittings or conduit
- 2 Position Ground lug installed
- Mounting Hardware Included



SolaDeck Model SD 0783

SolaDeck UL50 Type 3R Enclosures



Available Models:
Model SD 0783 - (3" fixed Din Rail)
Model SD 0785 - (5" slotted Din Rail)

SolaDeck UL 1741 Combiner/Enclosures



Models SD 0783-41 and SD 0786-41 are labeled and ETL listed UL STD 1741 according to the UL STD 1741 for photovoltaic combiner enclosures.
Max Rated - 600VDC, 120AMPS

Model SD 0783-41 3" Fixed Din Rail fastened using Norlock System

****Typical System Configuration**

- 4- Din Rail Mounted Fuse Holders 800VDC 30 AMP
- 1- Power Distribution Block 600VDC 175AMP
- 1- Bus Bar with UL lug

Model SD 0786-41 5" Slotted Din Rail fastened using steel studs

****Typical System Configuration**

- 4- Din Rail Mounted Fuse Holders 800VDC 30 AMP
- 4- Din Rail Mounted Terminal Blocks
- Bus Bars with UL lug

**Fuse holders and terminal blocks applied in the field must be UL listed or recognized and meet 800VDC 30 AMP 110C for fuse holders, 800VDC 30 AMP 90C for rail mounted terminal blocks and 600V 175 AMP 90C for Power Distribution blocks. Use Copper Wire Conductors



Cover is trimmed to allow conduit or piping, there is center dimple for fitting locations.



Model SD 0783-41, wired with Din Rail mounted fuse holders, bus bar and cover distribution block.



Model SD 0786-41, wired with Din Rail mounted fuse holders, terminal blocks and bus bars.

CAP Government Inc.

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STRUCTURAL

Reviewer: CJ Dupre

Date: 05/11/2023

Brightway

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RESIDENCE**
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**SHEET NAME
EQUIPMENT
SPECIFICATION**

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

**SHEET NUMBER
PV-18**

RSTC Enterprises, Inc. • 2219 Heimstead Road • Eau Claire, WI 54703
For product information call 1(866) 367-7782

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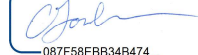
Chris Gowder

chris.gowder@fmpa.com

VP of IT/OT and System Ops

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