

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: Rafael Merced

Mailing Address: 1259 SE 43rd Road

City: Ocala State: FL Zip Code: 34480

Phone Number: (954) 646-3110 Alternate Phone Number: \_\_\_\_\_

Email Address: taos55@msn.com Fax Number: \_\_\_\_\_

Ocala Electric Utility Customer Account Number: 567724-249064

**2. RGS Facility Information**

Facility Location: 1259 SE 43rd Road, Ocala, FL 34480

Ocala Electric Utility Customer Account Number: 567724-249064

RGS Manufacturer: Emmtec Isolaredge

Manufacturer's Address: 700 Tasman Dr

Milpitas, CA 95035

Reference or Model Number: \_\_\_\_\_

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

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

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### 3. Facility Rating Information

Gross Power Rating: 8,602 ("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: ENERGY SOLAR PV

Anticipated In- Service Date: ASAP

### 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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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: Rafael Merced Merced Date: 02/12/2024  
(Print Name)

Rafael Merced Merced  
(Signature)

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

This Tri-Party Net-Metering Power Purchase Agreement (this "Agreement") is entered into this 12 day of February, 2024, 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 "FMPPA"), the City of Ocala doing business as Ocala Electric Utility, a body politic (hereinafter "OEU"), and Rafael Merced, 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 FMPPA 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 FMPPA 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, FMPPA, 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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### 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.

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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.

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## Section 7. Miscellaneous Provisions

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

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

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

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

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Electric Utility Director

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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.

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

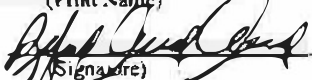
**City of Ocala Electric Utility**

By:   
Title: CFO  
Date: 2/27/2024

**Florida Municipal Power Agency**

By:   
Title: VP of IT/OT and System Ops  
Date: 2/27/2024

Customer

By: Rafael Merced Merced Date: 02/12/2024  
(Print Name)  
  
(Signature)

Customer's City of Ocala Electric Utility Account Number: 567724 - 24906A

Approved as to form and legality:

  
William E. Sexton  
City Attorney

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Electric Utility Director

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**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.

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Electric Utility Director

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

This Agreement is made and entered into this 12 day of FEBRUARY, 20 24, by and between Rafael Merced, (hereinafter called "Customer"), located at 1259 SE 43rd Rd 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: 1259 SE 43rd Road, Ocala, FL 34480.

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

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

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

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

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

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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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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**

**CONTRACT# ELE/240487**

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.

**City of Ocala Electric Utility:**

By: DocuSigned by:  
Janice Mitchell  
50198B43B58A4E1  
Title: CFO  
Date: 2/27/2024

**Customer:**

By: Rafael Merced Merced  
(Print Name)  
Rafael Merced Merced  
(Signature)  
Date: 02/12/2024

City of Ocala Electric Utility Account Number:

567724-249064

Approved as to form and legality:

DocuSigned by:  
William E. Sexton  
50198B43B58A4E1  
William E. Sexton  
City Attorney

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

Effective: October 1, 2019





Tower Hill Insurance Exchange

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

HOMEOWNERS DECLARATIONS

POLICY NUMBER W019935821

Amended  
Change Effective:  
02/20/2024

THIS IS NOT A BILL

Payment notice will be sent separately to: Mortgagee

Insured  
Blanca Merced  
1259 SE 43RD ROAD  
OCALA, FL 34480

AGENCY FL8540  
Hippo Analytics Inc  
701 E 5TH ST  
AUSTIN, TX 78701

PHONE NUMBER: (800) 988-5812

POLICY PERIOD: 02/20/2024 to 02/20/2025. Each period begins and ends at 12:01 AM standard time at the insured location.

INSURED LOCATION: Same as address shown under Insured.

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

SECTION I - PROPERTY COVERAGE	LIMIT	SECTION II - LIABILITY COVERAGE	LIMIT
COVERAGE A - Dwelling	\$728,359	COVERAGE E - Personal Liability	\$300,000
COVERAGE B - Other Structures	\$14,567	Each Occurrence	
COVERAGE C - Personal Property	\$364,180	COVERAGE F - Medical Payments to Others	\$5,000
COVERAGE D - Loss of Use	\$145,672	Each Person	

BREAKDOWN OF PREMIUM:

Charges	Limit	Premium
Section I and II Premium		\$3,184.00
Catastrophic Ground Cover Collapse Coverage		Incl
Emerald Coverage		\$479.00
Credit Card, Forgery and Counterfeit Money	\$10,000	Incl
Damage to Property of Others	\$1,000	Incl
Earth Movement Coverage for Personal Property		Incl
Fire Department Service Charge	\$1,000	Incl
Lock Replacement Coverage	\$500	Incl
Loss of Use Due to Power Shortage		Incl
Personal Injury Coverage		Incl
Personal Property Replacement Cost Without Holdback		Incl
Refrigerated Property Coverage	\$500	Incl
Special Personal Property		Incl
Water Damage for Contents Away from Premises		Incl
Watercraft Liability - 50hp		Incl
Special Limits of Liability		
Money	\$1,000	Incl
Securities	\$5,000	Incl
Watercraft	\$5,000	Incl
Trailers Not Used with Watercraft	\$5,000	Incl
Jewelry & Furs	\$5,000 (Theft) \$2,500 (Misplace)	Incl
Firearms	\$5,000 (Theft) \$2,500 (Misplace)	Incl
Silverware	\$5,000 (Theft) \$2,500 (Misplace)	Incl
Business Property on Premises	\$10,000	Incl
Business Property off Premises	\$1,000	Incl
Limited Fungi, Wet or Dry Rot, or Bacteria Coverage	\$10,000/\$10,000	Incl
Loss Assessment Coverage	\$1,000	Incl
Loss of Use - Increased Limit		\$11.00
Ordinance or Law Coverage	25%	\$137.00
Solar Panel(s), Solar Roof(s) and Solar Water Heating System(s) Coverage -	\$25,000	\$271.00
Property Coverage Only		
Water Back-Up and Sump Discharge or Overflow	\$5,000	Incl

00800900000 W019935821 481745 SDEC D

**POLICY NUMBER**  
**W019935821**

Emergency Management Preparedness and Assistance Trust Fund (EMPAT) Fee	\$2.00
Florida Insurance Guaranty Association (FIGA) Emergency Assessment Fee 2023	\$20.24
Managing General Agency (MGA) Fee	\$25.00
Surplus Contribution	\$202.40

**Credits**

Accredited Builder Discount  
Age of Dwelling Credit  
Age of Roof Credit  
Building Code Effectiveness Grading Schedule (BCEGS) Credit  
Deductible Options  
Protective Devices Credit  
Residential Windstorm Loss Mitigation Devices Credit  
Sinkhole Exclusion

**Premium**

Incl  
-\$1,334.00  
-\$325.00  
Incl  
-\$356.00  
-\$43.00  
Incl  
Incl

**Total Policy Premium:****\$2,273.64****DEDUCTIBLE (Section I Only):**

**The Calendar Year Hurricane Deductible is \$21,851 (3% of Coverage A).**  
**The All Other Perils Deductible is \$2,500.**

- In case of loss under Section I, we cover only that part of the covered loss over the deductible stated, unless otherwise stated in your policy.

**Mortgagee Information:**

CC: PNC Bank NA  
ISAOA/ATIMA  
PO BOX 7433  
SPRINGFIELD, OH 45501  
Loan Id: 1350015674

**Additional Insured:**

CC: Rafael Merced  
1259 SE 43RD RD  
OCALA, FL 34480

Important: Please notify your agent immediately if the mortgage company shown is incorrect.

**BASIC RATING INFORMATION:**

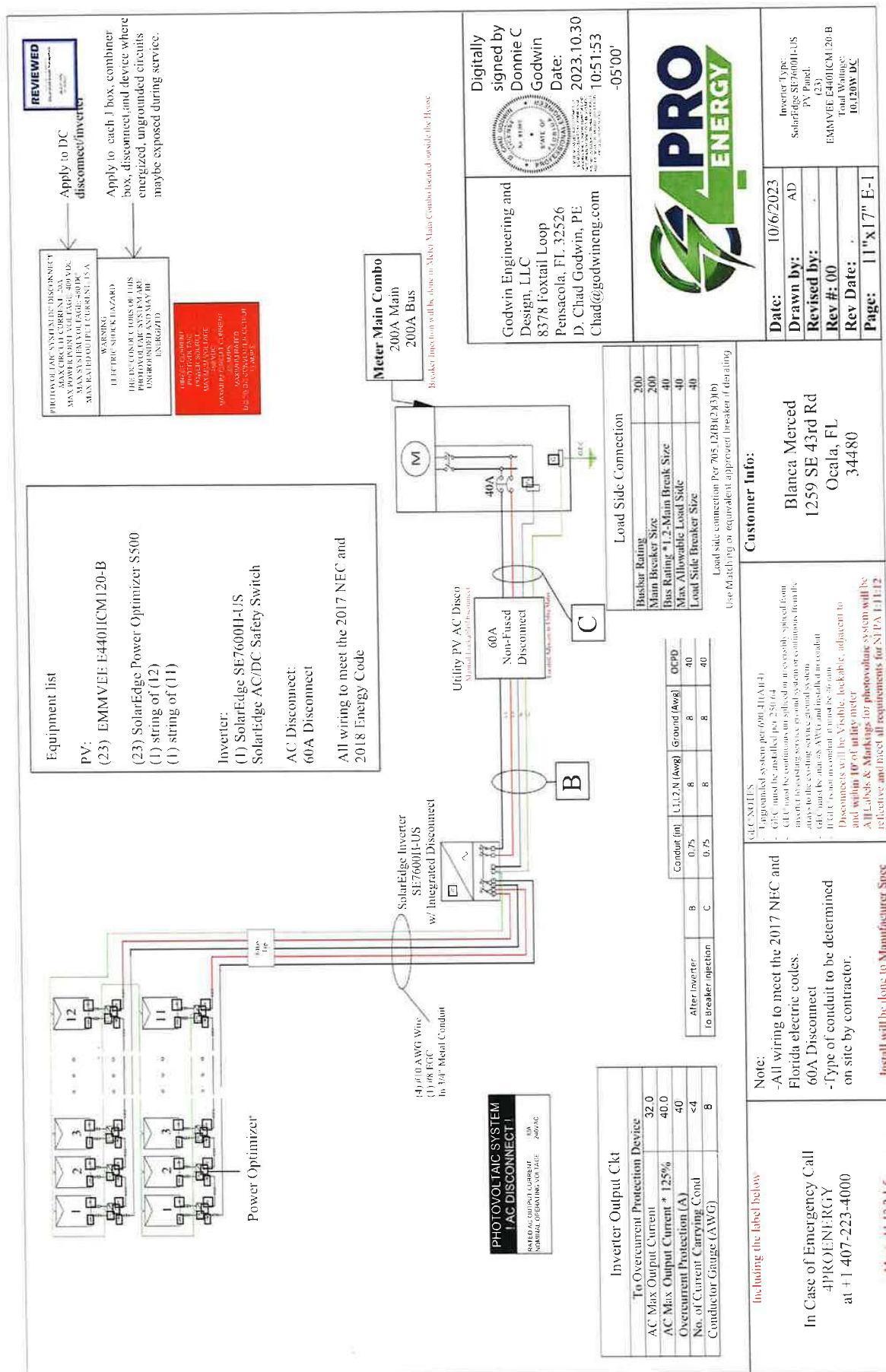
BASIC RATING INFORMATION:					
PROGRAM	FORM CODE	TERRITORY	COUNTY	CONSTRUCTION YEAR	CONSTRUCTION TYPE
TEFLHO	HO-3	522	MARION	2023	Masonry
FIRE PROTECTION CLASS	ROOF TYPE		ROOF MATERIAL		ROOF YEAR
2	Gable		Concrete/Clay Tile - Other Tiles		2023
BUILDING CODE (BCEG) GRADE	WIND PROTECTIVE DEVICE		PROTECTIVE DEVICE		
3	None		Local Burglar Alarm Local Fire Alarm		

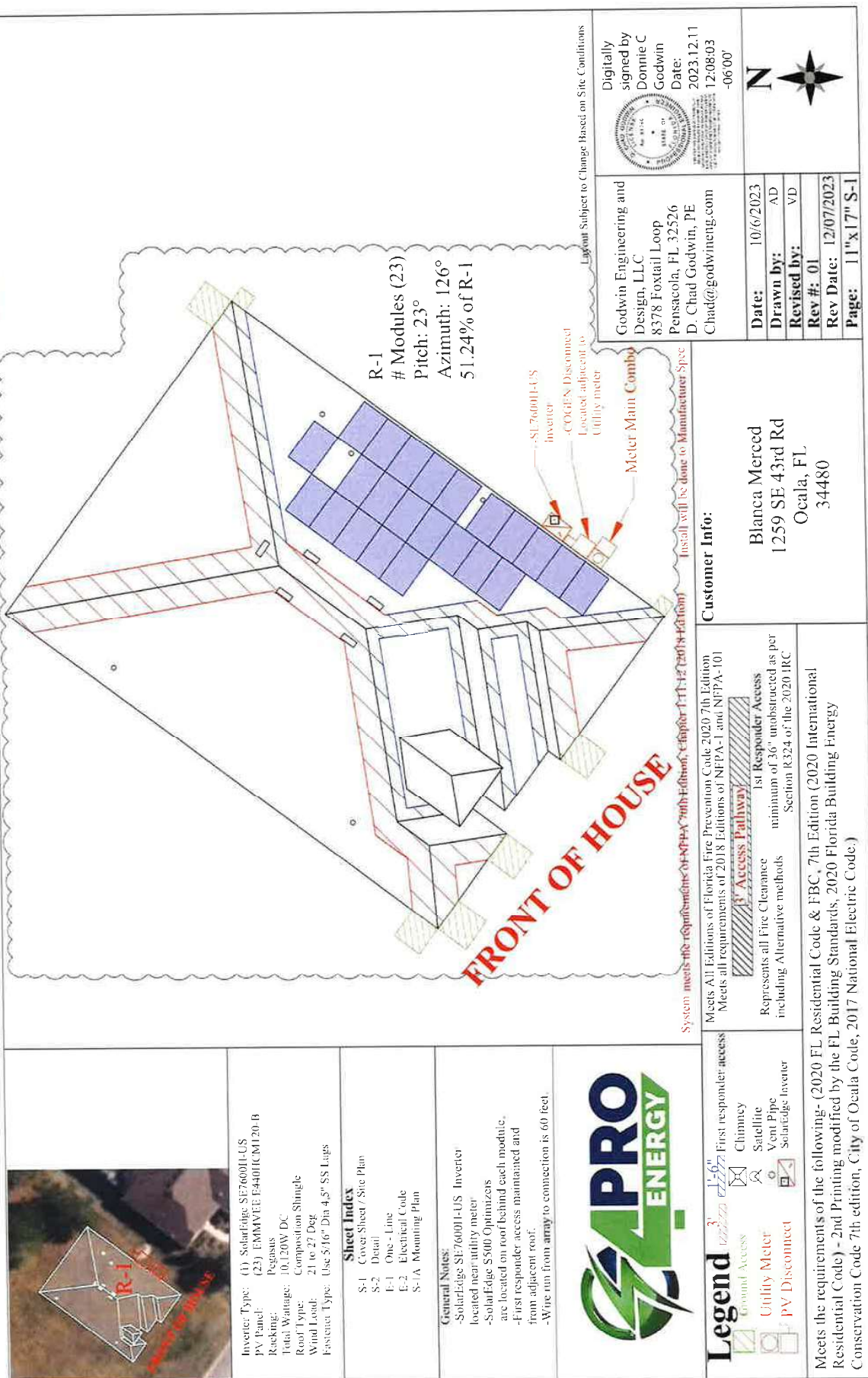
**PREMIUM SUMMARY:**

Hurricane Premium:	\$1,047.00
Non-hurricane Premium:	\$1,226.64

**Section II Other Location(s):**

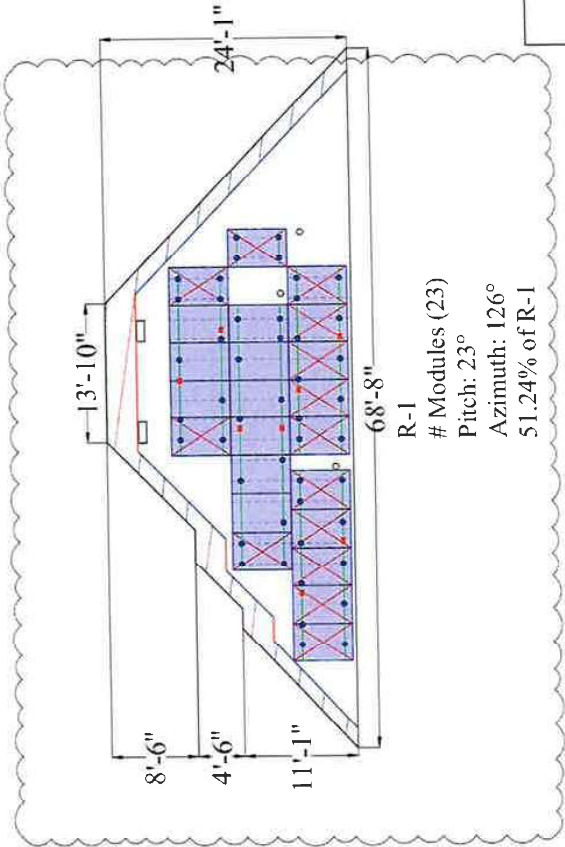
NONE







Proposed Mounting locations



Plants satisfy zones FIC-1510.7.1  
Install will be done to Manufacturer Spec

Godwin Engineering and Design, LLC  
8378 Foxtail Loop  
Pensacola, FL 32526  
D. Chad Godwin, PE  
Chad@godwineng.com

Digitally signed by  
Donnie C Godwin  
Date: 2023.12.11 12:07:39 -06'00'



Date:	10/6/2023
Drawn by:	AD
Revised by:	VD
Rev #:	01
Rev Date:	12/07/2023
Page:	11"x17" S-1A

Customer Info:

Blanca Merced  
1259 SE 43rd Rd  
Ocala, FL  
34480

Inverter Type: (1) SolarEdge SE7600H-US  
PV Panel: (23) EMMVEE E440HCM120-B  
Racking: Pegasus  
Total Wattage: 10,120W DC  
Roof Type: Composition Shingle  
Wind Load: 21 to 27 Deg  
Fastener Type: Use 5/16" Dia 4.5" SS Lags

- Pegasus Rail
- 14' 14
- 8 Splice Bar
- 48 Pegasus Flashing
- 56 Pegasus Universal Mid/End Clamp
- 20 Pegasus End Caps
- 1 Roof Top Combiner
- 5 Pegasus Ground Lugs
- 23 EMMVEE E440HCM120-B
- 1 SolarEdge SE7600H-US
- 1 60A Non-Fused Disconnect
- 1 40A Breaker
- 23 S500 Optimizer

Railier Spans	Zone 1	Zone 2e	Zone 2r	Zone 3
Exposed	48"	48"	48"	48"
Non-Exposed	72"	48"	48"	48"
Max Cantilever	24"	16"	16"	16"

Max Cantilever = Max Span \* (4)

[illegible]



## Single Phase Inverter with HD-Wave Technology

for North America

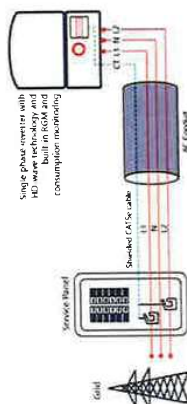
SE3000H-US / SE3800H-US / SE5000H-US / SE6000H-US/

SE3000H-US / SE3600H-US / SE3800H-US / SE7600H-US / SE10000H-US / SE11400H-US

[illegible]

## How to Enable Consumption Monitoring

Simply wiring current transformers through the inverter's existing AC conduits and connecting them to the service



From

## Single Phase Inverter with HD-Wave Technology

for North America

SN-H00093S / SN-H00053S / SE5000H-US / SE6000H-US /

SE3000H-US / SE3800H-US / SE3900H-US / SE7600H-US / SE1000H-US / SE1400H-US

[illegible]

## INVERTERS

## Single Phase Inverter with HD-Wave Technology

for North America

SN-H000935 / SN-H000535 / SF3800H-US / SE6000H-US /

SE3000H-US / SE3800H-US / SE3600H-US / SE7600H-US / SE10000H-US / SE11400H-US



## Optimized installation with HD-Wave technology

- Specifically designed to work with power sub-meters
- UL1741 SA certified for CHFC, Smart 2, grid compliance
- Small, lightweight, and easy to install built-in controllers or inductors
- Built-in inductive load monitoring
- Optional fault indicators with built-in consumption monitoring (10% accuracy)
- High speed of fault detection and rapid disconnection (4 ms, IEC 61801-211 and IEC 60364-4-41, Annex C12.27)

© Blackwell 2006





REVIEWED

Approved for Release

10/10/2019

Electrical data at 1000W/m<sup>2</sup>, 25°C and AM1.5 (STC) in accordance with IEC 60904-3)

MODEL NAME	E330P72-B	E335P72-B	E380P72-B	E395M72-B	E440H CH120-B	E485H CH120-B	E500-B
RATED POWER AT STC	330 Wp	335 Wp	380 Wp	385 Wp	440 Wp	445 Wp	450 Wp
MODULE EFFICIENCY AT STC	16.92%	17.18%	19.43%	19.70%	20.28%	20.51%	20.74%
OPEN CIRCUIT VOLTAGE - Voc (V <sub>oc</sub> )	45.9	46.0	49.0	49.1	44.4	44.6	41.56
SHORT CIRCUIT CURRENT - Isc (A <sub>sc</sub> )	9.2	9.31	10.12	10.21	13.85	13.75	13.81
MAX POWER VOLTAGE - V <sub>mp</sub> (V <sub>mp</sub> )	37.7	37.8	40.37	40.45	34.21	34.29	34.31
MAX POWER CURRENT - I <sub>mp</sub> (A <sub>mp</sub> )	8.76	8.86	9.66	9.75	12.87	12.99	13.12

The MEASUREMENT TOLERANCE OF THE RATED POWER IS ±3%. THE MODULES DELIVERED ARE SORTED IN A RANGE OF ±5WP AT LOW IRRADIANCE (600W/M<sup>2</sup>, 25°C AND AM1.5). THE MODULE YIELDS AT LEAST 98% OF THE STC EFFICIENCY.

Thermal data

TEMPERATURE COEFFICIENT OPEN-CIRCUIT VOLTAGE	-0.34% / °K	-0.28% / °K	-0.29% / °K
TEMPERATURE COEFFICIENT SHORT CIRCUIT CURRENT	-0.05% / °K	+0.05% / °K	+0.05% / °K
TEMPERATURE COEFFICIENT RATED POWER	-0.4% / °K	-0.39% / °K	-0.39% / °K
NOCT (NORMAL OPERATING CELL TEMPERATURE)	44°C ± 2°C	44°C ± 2°C	44°C ± 2°C

Mechanical data

NUMBER OF CELLS AND CELL TYPE	72 MONO CRYSTALLINE SOLAR CELLS (167 mm X 157 mm)	72 MONO PERC SOLAR CELLS (168.75 mm X 169.75 mm)	120 MONO PERC SOLAR CUT CELLS (162 mm X 91 mm)
DIMENSIONS: LENGTH X WIDTH X HEIGHT	1070 mm x 590 mm x 35 mm	1095 mm x 1008 mm x 35 mm	1813 mm x 1134 mm x 35 mm
WEIGHT	22 Kg	23 Kg	24 Kg
FRONT GLASS	3.2 mm HIGH TRANSMISSION, TEMPERED GLASS	3.2 mm HIGH TRANSMISSION, TEMPERED GLASS	3.2 mm HIGH TRANSMISSION, TEMPERED GLASS
EMBEDDING	EVA	EVA	EVA
BACK SHEET	COMPOSITE FILM, BLACK	COMPOSITE FILM, BLACK	COMPOSITE FILM, BLACK
FRAME	BLACK ANODIZED ALUMINIUM FRAME	BLACK ANODIZED ALUMINIUM FRAME	BLACK ANODIZED ALUMINIUM FRAME
JUNCTION BOX	IP67	IP67	IP68
CABLES	4mm <sup>2</sup> SOLAR CABLES, LENGTH 1200 ± 10 mm	4mm <sup>2</sup> SOLAR CABLES, LENGTH 1200 ± 10 mm	4mm <sup>2</sup> SOLAR CABLES, LENGTH 900 ± 10 mm
CONNECTORS	MC4 COMPATIBLE	MC4 COMPATIBLE	MC4 COMPATIBLE

Permissible operating conditions

OPERATING TEMPERATURE RANGE	-40°C to 85°C	-40°C to 85°C	-40°C to 85°C
MAX SYSTEM VOLTAGE	1500V DC	1500V DC	1500V DC
MAX REVERSE CURRENT	20A	20A	26A
MAXIMUM SURFACE LOAD CAPACITY	5400Pa	5400Pa	5400Pa
RESISTANCE AGAINST HAIL	MAX Ø24 mm WITH IMPACT SPEED OF 83km/h	MAX Ø24 mm WITH IMPACT SPEED OF 83km/h	MAX Ø24 mm WITH IMPACT SPEED OF 83km/h
PROTECTION CLASS	II	II	II

YOUR RELIABLE PARTNER FOR SOLAR ENERGY SINCE 1992

# EMMVEE BLACK MODULE

## MOST AESTHETIC SNIPER FOR YOUR ROOF!

Emmvee is an intelligent solar solutions producer born from an idea to implement green energy to better use. We aim at providing universally designed products to support all kinds of contemporary and town living. Amidst our industrial product range, Photovoltaics and Solar Water Heating Systems have been our strongest since inception in 1992.

**Worried about the sustainability of your solar modules in the extreme harsh weather conditions?**

Emmvee Solar Photovoltaic Modules are the best for On-Grid solar power plants. Our modules are built to withstand extreme harsh weather conditions and sustain for more than 25 years. The right performance and safety measures achieved by our products are one of its kind. These modules are covered into perfection with our state-of-the-art technology and premium materials sourced from across the world.

## FEATURES

- AR COATED HIGH TRANSMISSION GLASS
- ANODIZED BLACK ALUMINIUM FRAME
- IP67 RESISTANT
- MC4 COMPATIBLE CONNECTORS
- MECHANICAL LOAD OF 5400 Pa

## BENEFITS

- CAPABLE OF BEARING HIGH SNOW LOAD AND WIND
- EXCELLENT CURRENT DISTRIBUTION PERFORMANCE
- FLEXIBILITY IN INVERTER SELECTION
- RESISTS CORROSION OF THE FRAME ENSURING LONG LIFE
- NO DEGRADATION OF ELECTRICAL POWER INDEX SAVER



8378 Foxtail Loop, Pensacola, FL 32526 | (850)712-4219 | [chad@godwineng.com](mailto:chad@godwineng.com)

### Roof Structure Details

Roof Angle 21° to 27°  
Roof Type Hip  
Roof Covering Asphalt Shingle  
Mean Roof Height 15 ft  
Rafter Spacing 24 in O.C.  
Rafter/Truss Size 2 x 4

### Merced - Residential Calculations Sheet - R-1

The securement method of the PV system is to be mounted parallel to the Asphalt Shingle roof with the Pegasus railing and Pegasus Flashing flashings/attachments. The mounts should be staggered, where possible, to allow distribution of the design loads evenly to the structure. The mounts shall be installed with (1) 5/16" x 4.5 Lag Screw, CM 5G 0.5, to Rafter

---

#### Wind Load Parameters

Wind Speed (asf)	108	mph	FRC R301 2.1.3	Basic Wind Speed (Ult)	140	mph
Effective Wind Area	23.35	ft²	26.20	Exposure Cat.	C	B,C, or D
Wind Directionality	K <sub>d</sub> 0.85		Table 26.6-1	Elevation	<1000	ft
Topographic factor	K <sub>z</sub> 1.00		26.8 or 26.8.2	bldg. least hori. dim (typ.)	360	in
Ground Elevation Factor	K <sub>e</sub> 1.00		Table 26.9-1	Roof Height	15.00	ft
Velocity Exposure Coefficient	K <sub>z</sub> 0.85		Table 26.10-1	<b>Exposed Module Definition</b> Exposed factor = 1.5 for uplift loads on panels that are exposed and within a distance 1.5(L <sub>z</sub> ) from the end of a row at an exposed edge of the array. Modules are considered Exposed if d <sub>1</sub> to the roof edge > 0.5h and one of the following applies: 1. d <sub>2</sub> to adjacent array > 4ft. 2. d <sub>3</sub> to the next adjacent mod > 4ft.		
Array Edge Factor	1/e 1.50	Exposed	29.4.4			
Array Edge Factor	1/e 1.00	Non-Exp	29.4.4			
Solar Panel Equalization Factor	1/e 0.65		Fig. 29.4-8			
Velocity Pressure	q <sub>s</sub> 21.75	psf	q <sub>s</sub> = 0.00256 K <sub>z</sub> K <sub>d</sub> K <sub>e</sub> K <sub>z</sub> V²			
Added Safety Factor	1.2					
Allowable Pullout per mount	806.0	lbs				
0.4h or 0.6h	6.00	ft	Flat- 0.6h, Gab/Hip- 0.4h			
10% of least horizontal dim	3.00	ft	10% of least hor. Dim. Or 0.4h, whichever is smaller, but not less than either 4% of Least hor. Or 3ft. (flat roof- 0.5h)			
Roof Zone Set Back	3.00	ft				
h <sub>2</sub>	5	in	Not > 10in (panel height above roof)			
2h <sub>2</sub>	10	in	*min distance array shall be from the roof edge, Gable Ridge, or hip ridge			
	0.25	in	min gap between all panels but not > 6 ft			
d1	1.00	ft	Horizontal distance orthogonal to panel edge			
d2	0.25	ft	Horizontal distance from edge of one panel to the nearest edge in the next row			
0.5h	7.50	ft				

#### Exposed Module Definition

Exposed factor = 1.5 for uplift loads on panels that are exposed and within a distance 1.5(L<sub>z</sub>) from the end of a row at an exposed edge of the array. Modules are considered Exposed if d<sub>1</sub> to the roof edge > 0.5h and one of the following applies:

- d<sub>2</sub> to adjacent array > 4ft.
- d<sub>3</sub> to the next adjacent mod > 4ft.

---

#### PV Attachment - Results

##### R-1 Roof Zones - Hip 21° to 27°

	1	2e	2r	3		
GC <sub>u</sub> - Uplift	-1.3	-1.8	-1.8	-1.8		
GC <sub>d</sub> - Down	0.7	0.7	0.7	0.7		
p = q <sub>s</sub> (GC <sub>u</sub> )(g <sub>r</sub> )(v <sub>r</sub> )Up	-24.9	-35.6	-35.6	-35.6	psf	29.4-7 Exposed
p = q <sub>s</sub> (GC <sub>d</sub> )(g <sub>r</sub> )(v <sub>r</sub> )UP	-16.0	-22.8	-22.8	-22.8	psf	29.4-7 Non-Exp.
p = q <sub>s</sub> (GC <sub>u</sub> )(g <sub>r</sub> )(v <sub>r</sub> )Down	16.0	16.0	16.0	16.0	psf	29.4-7 Exposed
p = q <sub>s</sub> (GC <sub>d</sub> )(g <sub>r</sub> )(v <sub>r</sub> )Down	16.0	16.0	16.0	16.0	psf	29.4-7 Non-Exp.
Point load (Portrait Rails)	-469	-670	-670	-670	lb	p * A <sub>eff</sub> Exposed
Point load (Portrait Rails)	-301.2	-429.1	-429.1	-429.1	lb	p * A <sub>eff</sub> Non-Exp.
Point load (landscape Rails)	-278.2	-397.0	-397.0	-397.0	lb	p * A <sub>eff</sub> Exposed
Point load (landscape Rails)	-178.6	-254.4	-254.4	-254.4	lb	p * A <sub>eff</sub> Non-Exp.
Max Span (Portrait)	72	72	72	72	in	Exposed
Max Span (Portrait)	72	72	72	72	in	Non-Exp.
Max Span (landscape)	72	72	72	72	in	Exposed
Max Span (landscape)	72	72	72	72	in	Non-Exp.
Cantilever (Portrait)	24	24	24	24	in	Exposed
Cantilever (Portrait)	24	24	24	24	in	Non-Exp.
Cantilever (landscape)	24	24	24	24	in	Exposed
Cantilever (landscape)	24	24	24	24	in	Non-Exp.

\*\*\* Spans with Mark-through denote allowable Module pressure rating is exceeded.

#### PV Dead Load

QTY of Modules (23 in Portrait, )	23
Module Area	23.35 ft²
Rail, Clamps, Mounts	1 lb/ft²
Total Rail Length	174 ft
Module	W <sub>mod</sub> 53 lbs
Array	W <sub>mods</sub> 1217 lbs
Micro/optimizer	W <sub>mic</sub> 92 lbs
PV Rail	W <sub>PV(rail)</sub> 174 lbs
Total Weight	W <sub>Total</sub> 1483 lbs
Total Area	A= 537.08 ft²
Dead Load	D <sub>PV</sub> 2.75 psf
Weight/attachment	30.9 lbs



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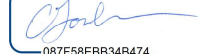
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