

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: Donna Doutney

Mailing Address: 5095 NW 18th Street

City: Ocala State: FL. Zip Code: 34482

Phone Number: 860-803-8136 Alternate Phone Number: 860-490-3745

Email Address: louisepelletier1952@gmail.com Fax Number: \_\_\_\_\_

Ocala Electric Utility Customer Account Number: 512181-151657

**2. RGS Facility Information**

Facility Location: 5095 NW 18th Street Ocala, Fl. 34482

Ocala Electric Utility Customer Account Number: 512181-151657

RGS Manufacturer: Trina Solar Co., Ltd

Manufacturer's Address: \_\_\_\_\_  
Changzhou, China

Reference or Model Number: TSM-410NE09RC.05 11 Modules (410W)

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

(Continued on Sheet No.19.1)

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

Effective: October 1, 2019

Ocala Electric Utility  
Ocala, Florida  
(Continue from Sheet No. 19.0)

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

### 3. Facility Rating Information

Gross Power Rating: 3.83kWac ("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 PV

Anticipated In- Service Date: 2/18/25

### 4. Application Fee

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

### 5. Interconnection Study Fee

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

### 6. Required Documentation

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

- A. Documentation demonstrating that the installation complies with (or most current version at time of inspection approval):
1. IEEE 1547 (2018) Standard for Interconnecting Distributed Resources with Electric Power Systems.
  2. IEEE 1547.1 (2005) Standard Conformance Test Procedures for Equipment Interconnecting Distributed Resources with Electric Power Systems.
  3. UL 1741 (2010) Inverters, Converters, Controllers and Interconnection System Equipment for Use with Distributed Energy Resources.

(Continued on Sheet No. 19.2)

Issued by: Michael Poucher, P.E.  
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OCALA ELECTRIC UTILITY  
OCALA, FLORIDA  
(Continued from Sheet No. 19.1)

FIRST REVISED SHEET NO. 19.2  
CANCELS ORIGINAL SHEET NO. 19.2

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

C. Proof of insurance in the amount of:

Tier 1 - \$100,000.00

Tier 2 - \$1,000,000.00

Tier 3 - \$2,000,000.00

**Customer**

By: Donna Doutney  
(Print Name)

Date: 12/19/24

  
(Signature)

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

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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 16 day of December, 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 “FMPA”), the City of Ocala doing business as Ocala Electric Utility, a body politic (hereinafter “OEU”), and Donna Doutney, a retail electric customer of OEU (hereinafter “Customer”).

### **Section 1. Recitals**

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

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

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

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

### **Section 2. Interconnection**

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

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

(Continued on Sheet No. 20.1)

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

Effective: October 1, 2019

Ocala Electric Utility  
Ocala, Florida  
(Continued from Sheet No. 20.0)

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

### **Section 3. Metering**

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

### **Section 4. Purchase of Excess Customer-Owned Renewable Generation**

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

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

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

(Continued on Sheet No. 20.2)

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

Effective: October 1, 2019

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

FIRST REVISED SHEET NO. 20.2  
CANCELS ORIGINAL SHEET NO. 20.2

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

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

## **Section 5. Renewable Energy Credits**

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

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

## **Section 6. Term and Termination**

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

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

(Continued on Sheet No. 20.3)

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

Effective: October 1, 2019

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

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

## Section 7. Miscellaneous Provisions

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

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

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

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

(Continued on Sheet No. 20.4)

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

Effective: October 1, 2019



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

FIRST REVISED SHEET NO. 20.4  
CANCELS ORIGINAL SHEET NO. 20.4

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

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

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

(Continued on Sheet No. 20.5)

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

Effective: October 1, 2019



**CONTRACT# ELE/250571**

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: Signed by: Janice Mitchell  
5510BB4389BA4E1...  
Title: CFO  
Date: 4/9/2025

**Florida Municipal Power Agency**

By: DocuSigned by: [Signature]  
087F58E8B34B474...  
Title: Chief Sys Ops & Tech Officer  
Date: 4/9/2025

**Customer**

By: Donna Doutney Date: 12/19/24  
(Print Name)  
[Signature]  
(Signature)

Customer's City of Ocala Electric Utility Account Number: 512181-151657

Approved as to form and legality:

DocuSigned by: William E. Sexton  
807CCEC4E8B6X20  
William E. Sexton, Esq.  
City Attorney

(Continued on Sheet No. 20.6)

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Electric Utility Director

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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.

OCALA ELECTRIC UTILITY  
OCALA, FLORIDA

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

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

This **Agreement** is made and entered into this 16 day of December, 20 24, by and between Donna Doutney, (hereinafter called "**Customer**"), located at 5095 NW 18th Street 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: 5095 NW 18th Street Ocala, Fl. 34482.

**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 "FMPPA") have entered into the All-Requirements Power Supply 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; 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, FMPPA, in accordance with the terms and conditions of this agreement, has agreed to purchase excess customer-owned generation from OEU customers interconnected to OEU's electric system; and

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

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

(Continued on Sheet No. 21.1)

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

Effective: October 1, 2019

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

FIRST REVISED SHEET NO. 21.1  
CANCELS ORIGINAL SHEET NO. 21.1

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

(Continued to Sheet No. 21.2)

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

Effective: October 1, 2019

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

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

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

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

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

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

(Continued on Sheet No. 21.3)

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Electric Utility Director

Effective: October 1, 2019

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

FIRST REVISED SHEET NO. 21.3  
CANCELS ORIGINAL SHEET NO. 21.3

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

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

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

(Continued on Sheet No. 21.4)

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Electric Utility Director

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

FIRST REVISED SHEET NO. 21.4  
CANCELS ORIGINAL SHEET NO. 21.4

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

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

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

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

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

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

(Continued on Sheet No. 21.5)

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

Effective: October 1, 2019



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

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

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

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

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

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

(Continued to Sheet No. 21.6)

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

Effective: October 1, 2019

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

FIRST REVISED SHEET NO. 21.6  
CANCELS ORIGINAL SHEET NO. 21.6

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

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

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

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

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

(Continued on Sheet No. 21.7)

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

Effective: October 1, 2019

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

FIRST REVISED SHEET NO. 21.7  
CANCELS ORIGINAL SHEET NO. 21.7

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

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

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

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

(Continued on Sheet No. 21.8)

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

Effective: October 1, 2019

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

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

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

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

(Continued on Sheet No. 21.9)

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

Effective: October 1, 2019

**CONTRACT# ELE/250571**

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:**

**Customer:**

By:  \_\_\_\_\_  
Signed by: Janice Mitchell  
551088438584E1...

By: Donna Doughtney  
(Print Name)

Title: CFO

  
(Signature)

Date: 4/9/2025

Date: 12/19/24

City of Ocala Electric Utility Account Number:

512181-151657

Approved as to form and legality:

 \_\_\_\_\_  
DocuSigned by: William E. Sexton  
B87D9CFA8B6A1D9  
William E. Sexton, Esq.  
City Attorney

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

Effective: October 1, 2019



**US Coastal Property & Casualty Insurance Company**  
D-BILL: DONNA DOUTNEY

RENEWAL

Page 1 of 3

**GA:**  
CABRILLO COASTAL GENERAL INS AGENCY  
PO BOX 357965  
GAINESVILLE, FL 32635-7965

**Agent:** 700910 (352) 237-1141  
HOLDER INSURANCE AGENCY INC  
1635 SW 1ST AVE  
OCALA, FL 34471-6508

**NAMED INSURED AND ADDRESS**  
DONNA M DOUTNEY  
LOUISE H PELLETIER  
5095 NW 18TH ST  
OCALA, FL 34482-8595

**LOCATION OF RESIDENCE PREMISES**  
(If different from Insured Address)  
5095 NW 18TH ST  
OCALA, FL 34482-8595

**HOMEOWNER DECLARATIONS**

**POLICY NO:** FLH0011499 **Policy Period:** 7/02/2024 to 7/02/2025 12:01 AM standard time at insured location

COVERAGE IS PROVIDED WHERE A PREMIUM OR LIMIT OF LIABILITY IS SHOWN FOR THE COVERAGE.

COVERAGES AND LIMITS OF LIABILITY	SECTION I			SECTION II		
	A. DWELLING STRUCTURES	B. OTHER STRUCTURES	C. PERSONAL PROPERTY	D. LOSS OF USE	E. PERSONAL LIABILITY	F. MEDICAL PAYMENTS
	280,000	5,600	209,960	28,000	300,000	5,000

FOR LOSS UNDER SECTION I, WE COVER ONLY THAT PART OF LOSS OVER THE DEDUCTIBLE STATED,  
UNLESS OTHERWISE STATED IN YOUR POLICY:

DEDUCTIBLE (Section I Only):

**CALENDAR YEAR HURRICANE DEDUCTIBLE IS \$1,000**  
**THE ALL OTHER PERILS DEDUCTIBLE IS \$1,000**

PREMIUM SUMMARY: HURRICANE PREMIUM:	\$762.00	TOTAL PREMIUM:	\$1950.00
NON-HURRICANE PREMIUM:	\$1188.00	MGA FEE:	\$25.00
		EMERGENCY MGT FEE:	\$2.00
		FLORIDA HURRICANE CATASTROPHE FUND ASSESSMENT:	\$ .00
		FLORIDA INSURANCE GUARANTY ASSOCIATION 0.7% ASSESSMENT:	\$ .00
		FLORIDA INSURANCE GUARANTY ASSOCIATION 1.0% ASSESSMENT:	\$19.50
		CITIZENS PROPERTY INSURANCE CORPORATION ASSESSMENT:	\$ .00
		TOTAL POLICY:	\$1996.50

POLICY SUBJECT TO THE FOLLOWING SURCHARGES, CREDITS, ENDORSEMENTS AND FORMS:

FORM NO	EDITION	DESCRIPTION	LIMITS	PREMIUM
CC HO 0003	08/23	SPECIAL FORM		
SHPN-11	05/18	PRIVACY NOTICE		
CHO 422	11/21	POLICY JACKET		
CHO 429	12/17	OUTLINE OF COVERAGES		
CHO 412	01/17	HURRICANE DED-\$1,000		
OIRB11670H		COVERAGE CHECKLIST		
CHO 420	02/07	ORDINANCE OR LAW	\$70,000	
		25% OF COVERAGE A		
OIRB11655	02/10	LOSS MITIGATION NOT		
CHO 471	07/18	SPEC PERSONL PROPRTY		
CHO 426	07/18	WATER BACKUP		
CHO 413	02/07	ADDL COV A LIMIT-20%		
		WIND MITIGATION CRDT		
CHO 417	08/09	LTD COV-ALUMINUM STR	\$10,000	
HO 23 86	01/06	PERS PROP REPL COST		

ROOF SURFACE: SHINGLES - ARCHITECTURAL

ROOF AGE: 10

ROOF VALUATION: \$11,464

OCC: SEASONAL

TER: 741

BUILT: 1994

CONST: MASONRY

PRT CLS: 3 #FAMILIES: 1

SHHO DEC 05 22

PGM: HO3

BCEG: 0

Date Issued: 6/24/24

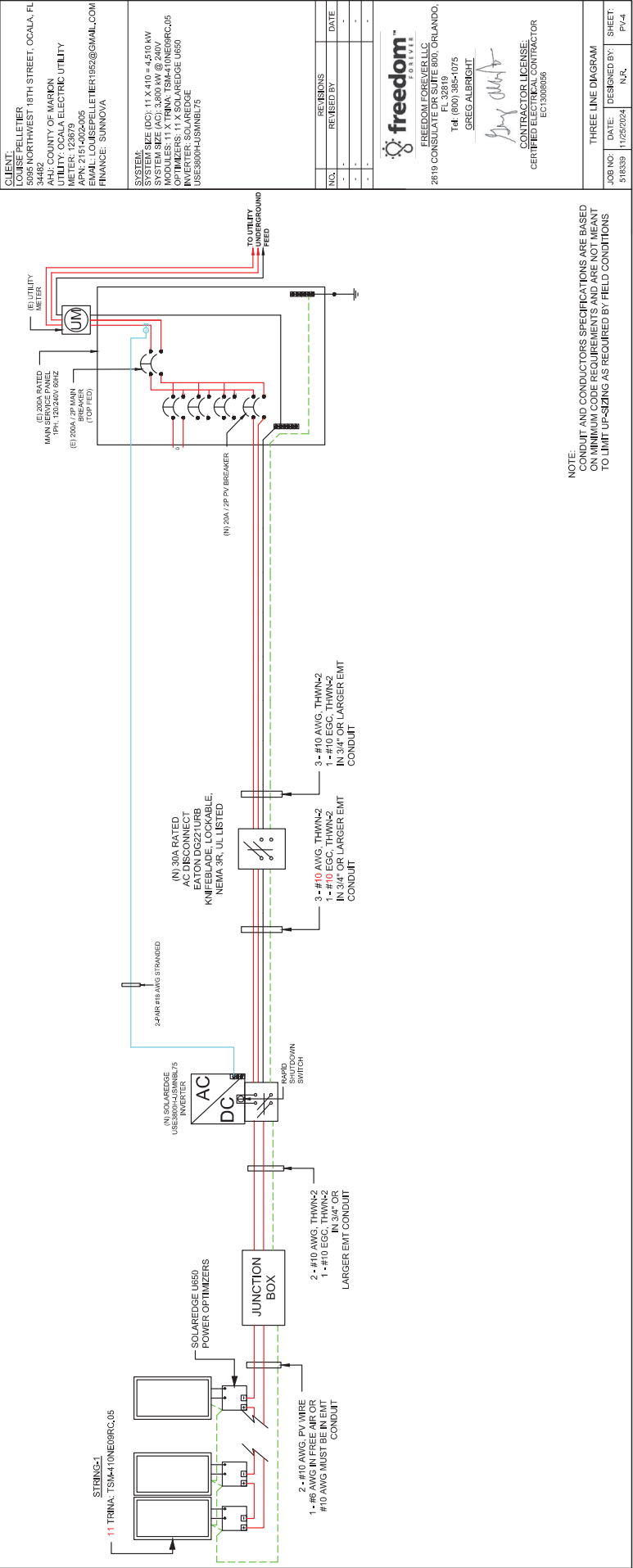
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BACKFEED BREAKER SIZING				
MAX. CONTINUOUS OUTPUT 16,00A @ 240V				
16.00	X	1.25	=	20.00AMPS 20A BREAKER-OK
SEE 705.12 OF 2020 NEC				
200	X	1.20	=	240
240	-	200	=	40A ALLOWABLE BACKFEED



This item has been digitally signed and sealed by Taqi Khawaja, PE on 11/30/2024 using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signatures must be verified on any electronic copies.







/ SolarEdge Home Hub Inverter  
USA Domestic Content Eligible  
Single Phase, for North America

SE3800H-US / SE5700H-US / SE7600H-US / SE10000H-US / SE11400H-US

Applicable to inverters with part number						SExxxxxH-USMNXBLX5 / USExxxxH-USMNB175					
Model Number <sup>(1)</sup>		SE3800H-US	SE5700H-US	SE7600H-US	SE10000H-US	SE11400H-US					
OUTPUT – AC ON GRID											
AC Output Voltage (Nominal) AC Output Voltage (Range) AC frequency range (min – nom – max) Maximum Continuous Output Current GFCL Threshold <sup>(2)</sup> Total Harmonic Distortion (THD) Power Factor Utility Monitoring /Islanding Protection Country Configurable Thresholds Charge Battery from AC (if allowed) Typical Lifetime Power Consumption	Maximum AC Power Output	3800 @ 240V 3300 @ 208V	5760 @ 240V 5000 @ 208V	7600 @ 240V 6600 @ 208V	10,000 @ 240V 8,800 @ 208V	11,400 @ 240V 10,000 @ 208V					
	Vac	208 / 240									
	Vac	183 – 264									
	Hz	59.3 – 60 – 60.5 <sup>(3)</sup>									
	A	16 @ 240V 16 @ 208V	24 @ 240V 24 @ 208V	32 @ 240V 32 @ 208V	42 @ 240V	47.5 @ 240V 48 @ 208V					
	A	1									
	%	< 3									
	%	1, adjustable -0.85 to 0.85									
	Yes	Yes									
	Yes	Yes									
W	< 2.5										
OUTPUT – AC STANDALONE (BACKUP) <sup>(4)</sup>											
Rated AC Power in Standalone Operation <sup>(4)</sup> Maximum Continuous Output Current in Standalone Operation Cooperation Locked Rotor Amperage (LRA) <sup>(5)</sup> AC L-L Output Voltage Range in Standalone Operation AC L-N Output Voltage Range in Standalone Operation AC frequency range in Standalone Operation (min – nom – max) GFCL THD	Rated AC Power in Standalone Operation <sup>(4)</sup>	11,400									
	Maximum Continuous Output Current in Standalone Operation	48									
	A	Up to 106									
	Vac	211 – 264									
	Vac	105 – 132									
	Hz	55 – 60 – 65									
	A	1									
	%	< 5									
	INPUT – DC (PV AND BATTERY)										
	Transformerless, Ungrounded Maximum Input Voltage Nominal DC Input Voltage Reverse-Polarity Protection Ground-Fault Isolation Detection Maximum Input Short-Circuit Current Maximum Inverter Efficiency CFC Weighted Efficiency 2-Event Disconnection	Transformerless, Ungrounded	Yes								
Maximum Input Voltage		480									
Vac		380									
Yes		Yes									
6000G Sensitivity		45									
%		99.2									
%		98.5	99		98.5 @ 208V						
Yes		Yes									
DC CONNECTION – PV											
Maximum Input Power Maximum Input Current Number of Ports Maximum Current per Port		Maximum Input Power	7600 @ 240V 6600 @ 208V	11,520 @ 240V 10,000 @ 208V	15,000 @ 240V 13,000 @ 208V	20,000 @ 240V 17,600 @ 208V	22,800 @ 240V 20,000 @ 208V				
	Maximum Input Current	32 @ 240V 32 @ 208V	48 @ 240V 48 @ 208V	53 @ 240V	53 @ 240V	60 @ 240V 53 @ 208V					
	3	3									
	40	40									

(1) These specifications apply to inverters with part number **SExxxxH-USMNXBLX5** and connection unit model number **DCD-IPH-US-PH-F-X**.  
(2) For other regional settings please refer to the SolarEdge Inverter, Power Control System, application note.  
(3) Not designed for non-grid connected applications and requires AC for commissioning. Standalone backup functionality is only supported for the 240V grid.  
(4) Maximum Continuous Output Current of 48A, from firmware version 4.20.xx.  
(5) For more information about LRA (Locked Rotor Amperage) values, see the **SolarEdge Home Hub Inverter LRA** application note.

HOME BACKUP

SolarEdge Home Hub Inverter  
USA Domestic Content Eligible\*  
Single Phase, for North America

SE3800H-US / SE5700H-US / SE7600H-US / SE10000H-US /

SE11400H-US



SolarEdge's USA-manufactured residential single phase inverter  
offering for storage and backup applications

- Eligible for domestic content: SolarEdge USA-manufactured inverters\*, when paired with certain SolarEdge power optimizers, are intended to be eligible for the enhanced federal income tax credit for domestic content
- The ultimate home energy manager in charge of PV production, battery storage, backup operation during a power outage\*\*, EV Charging, and smart energy devices
- Record-breaking 99% weighted efficiency with up to 200% DC oversizing
- Able to start high LRA HVAC systems during backup operation
- Integrates seamlessly with the complete SolarEdge Home Smart Energy Ecosystem, through SolarEdge Home Network
- Module-level monitoring and visibility of battery status, PV production, and self-consumption data

\* Manufactured by SolarEdge with the intent to be eligible for inclusion under the domestic safe harbor in call during the Domestic Content Percentage under the (B) Notice 2020-04. For more information, please refer to the Domestic Content Percentage under the (B) Notice 2020-04. SolarEdge Technologies, Inc. reserves the right to change the domestic content bonus applicable. For inverters with part number SExxxxH-USMNB175, the PCBs and Firmware are domestically manufactured to meet the requirements of the (B) Notice 2020-04. SolarEdge Technologies, Inc. reserves the right to change the domestic content bonus applicable. SolarEdge does not provide tax advice. You should consult with your own legal and/or tax advisors regarding the eligibility of your project for the EIC or PTC, including the 9% domestic content bonus, to determine how the applicable rules apply to your particular project. The forward-looking statements in this document are accurate as of the date herein and are subject to change. For more information, please refer to the Domestic Content Percentage under the (B) Notice 2020-04.  
\*\* Requires additional hardware and firmware version upgrade.

solaredge.com



## SE3800H-US / SE5700H-US / SE7600H-US / SE10000H-US / SE11400H-US

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Continuing to advance smart energy, SolarEdge addresses a broad range of energy market segments through its PV, storage, EV charging, UPS, and grid services solutions.

[solaredge.com](http://solaredge.com)

**Cautionary Note Regarding Market Data and Industry Forecasts:** This brochure may contain market data and industry forecasts from certain third-party sources. This information is based on industry surveys and the preparer's expertise in the industry and there can be no assurance that any such market data is accurate or that any such industry forecasts will be achieved. Although we have not independently verified the accuracy of such market data and industry forecasts, we believe that the market data is reliable and that the industry forecasts are reasonable.



**/ Residential Power Optimizer**  
USA Domestic Content Eligible for North America  
U650

	U650	Units
<b>INPUT</b>		
Rated Input DC Power <sup>a)</sup>	650	W
Absolute Maximum Input Voltage (Vdc)	60	Vdc
MPPT Operating Range	8 – 60	Vdc
Maximum Input Current (Maximum I <sub>sc</sub> of Connected PV Module)	15	Adc
Maximum Input Short Circuit Current <sup>b)</sup>	18.75	Adc
Maximum Efficiency	99.5	%
Weighted Efficiency	98.6	%
Overvoltage Category	II	
<b>OUTPUT DURING OPERATION (POWER OPTIMIZER CONNECTED TO OPERATING SOLAREEDGE INVERTER)</b>		
Maximum Output Current	15	Adc
Maximum Output Voltage	60	Vdc
<b>OUTPUT DURING STANDBY (POWER OPTIMIZER DISCONNECTED FROM SOLAREEDGE INVERTER OR INVERTER OFF)</b>		
Safety Output Voltage per Power Optimizer	1 ± 0.1	Vdc
<b>STANDARD COMPLIANCE</b>		
Photovoltaic Rapid Shutdown System	CSA C22.8#330, NEC 2014 – 2023	
EMC	FCC Part 15 Class B, IEC 61000-6-2, IEC 61000-6-3	
Safety	CSA C22.2# 07-1, IEC 61001-1 (Class II safety), UL 1741	
Material	UL 94 V-0, LV Resistant	
RoHS	Yes	
Fire Safety	UL94-V0	
<b>INSTALLATION SPECIFICATIONS</b>		
Maximum Allowed System Voltage	700	Vdc
Dimensions (W x L x H)	129 x 155 x 307 ± 0.03 ± 118	mm / in
Weight	720 / 16	g / lb
Input Connector	MC4	
Input Wire Length	0.17/0.30	m / ft
Output Connector	MC4	
Output Wire Length	(-) 2.3, (+) 0.10 / (+) 7.54, (+) 0.32	m / ft
Operating Temperature Range <sup>a)</sup>	-40 to +85	°C
Protection Rating	IP68 / NEMA4P	
Relative Humidity	0 – 100	%

(1) The Rated Power of the module at STC will not exceed the power optimizer's Rated Input DC Power. Modules with up to +5% power tolerance are allowed.

PV System Design Using a SolarEdge Inverter <sup>(4)</sup>		SolarEdge Home Wave / Hub Single Phase	Three Phase for 208V Grid	Three Phase for 277/480V Grid	Units
Minimum String Length (Power Optimizers)	6	25	18	18	
Maximum String Length (Power Optimizers)		5700	6000	50 <sup>(5)</sup>	
Maximum Usable Power Delivered per String	Inverters with Rated AC Power ≤ 5700W	Per the Inverters maximum input DC power <sup>(6)</sup>		12.750	W
Maximum Allowed Connected Power per String <sup>(4)(5)</sup>	Inverters with Rated AC Power of 6000W	5700		15,000	W
	Inverters with Rated AC Power ≤ 7600W	6800, only when connected to at least two strings			
Parallel Strings of Different Lengths or			Yes		

**Orientations**

(4) It is not allowed to mix S-series and P-series Power Optimizers in the same string.

(4) It is not allowed to mix 3-series and P-series Power Optimizers in the same string.

(5) A string with more than 30 optimizers does not meet NEC rapid shutdown requirements; safety voltage will be above the 30V requirement.

(6) For the 208V grid, the maximum is permitted only when the difference in connected power between strings is 1,000W or less.

(7) For the 240V or 277/480V grids, the maximum is permitted only when the difference in connected power between strings is 2,000W or less.

(8) Refer to the Single String Design Guidelines application note for more details.

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# POWER OPTIMIZER

# Residential Power Optimizer

## USA Domestic Content Eligible\*

# For North America

U650



**Made in the USA**  
from imported parts

## SolarEdge's USA-manufactured residential offering for PV power optimization at the module level

- ✓ Eligible for domestic content: SolarEdge USA-manufactured Power Optimizers<sup>®</sup>, when paired with certain SolarEdge inverters, are intended to be eligible for the enhanced federal income tax credit for domestic content
  - ✓ Faster installations with simplified cable management and easy assembly using a single bolt
  - ✓ Flexible system design for maximum space utilization
  - ✓ Compatible with a wide range of modules, including high-powered and bifacial PV modules
  - ✓ Advanced safety:
    - ✓ Patented Sense Connect technology, designed to automatically detect and prevent potential electric arcs at the connector level before an arc is created
    - ✓ Patented SafeDC™ – module-level voltage shutdown, for installer and firefighter safety
    - ✓ Meets NEC requirements for arc fault protection (AFCC) and Photovoltaic Rapid Shutdown System (PRSS) (APVCS)
  - ✓ Superior efficiency (99.5%)
  - ✓ Mitigates diverse types of module mismatch loss, from manufacturing tolerance to partial shading
- Manufactured by SolarEdge with the intent to be eligible for inclusion under the domestic sale header in calculating the Domestic Content Percentage under the “Roofing, HVAC, Energy Storage and Solar” category (under EISA Notice 2024-17). The PCA, Electrical Parts, Enclosure and Production are manufactured in the United States. The SolarEdge inverters are manufactured in the United States. The SolarEdge domestic content number, SolarEdge, is also a U.S. domestic content number. SolarEdge does not have any other U.S. domestic content number. You should consult with your own legal and/or tax advisors regarding the eligibility of your project for the ITC or PTC, including the 10% domestic content bonus, to determine how this information applies to your project. The information in this document is provided for informational purposes only. This information is accurate as of the date herein and is subject to change. For more information, visit [www.solaredge.com](https://www.solaredge.com).

[illegible]

solaredge.com



Mono Multi Solutions

Vertex S<sup>+</sup>

BACKSHEET MONOCRYSTALLINE MODULE

PRODUCT: TSM-NE09RC.05  
PRODUCT RANGE: 400-430W

430W

MAXIMUM POWER OUTPUT

0~+5W

POSITIVE POWER TOLERANCE

21.5%

MAXIMUM EFFICIENCY



Small in size, bigger on power

- Up to 430W, 21.5% module efficiency with high density interconnect technology
- Reduce installation cost with higher power bin and efficiency
- Boost performance in warm weather with low temperature coefficient and operating temperature



High Reliability

- Innovative non-destructive cutting for improved mechanical resistance and strength
- Excellent fire rating, weather resistance, salt spray, sand dust, ammonia performance which is fully applicable in coastal, high temperature, humidity area and harsh environment



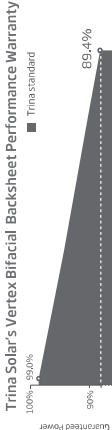
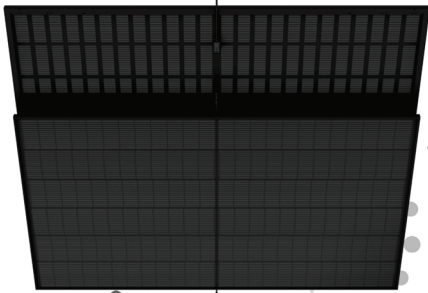
Ultra-low Degradation, longer warranty, higher output

- First-year degradation 1% and annual degradation at 0.4%
- Up to 25 years product warranty and 25 years power warranty



Universal solution for residential and C&I rooftops

- Easy for integration, designed for compatibility with existing mainstream inverters and diverse mounting systems
- Perfect size and low weight for handling and installation similar to backsheet version)
- Mechanical performance up to 6000 Pa positive load and 4000 Pa negative load



Comprehensive Products and System Certificates

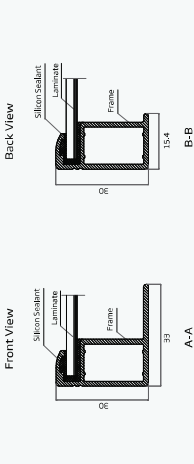
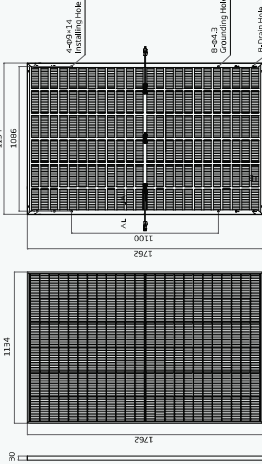


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Vertex S<sup>+</sup> BACKSHEET MONOCRYSTALLINE MODULE

DIMENSIONS OF PV MODULE(mm)



ELECTRICAL DATA (STC)

Peak Power (Watt)-P <sub>max</sub> (Wp)*	400	405	410	415	420	425	430
Power Tolerance-PMAX (W)	0 ~+5						
Maximum Power Voltage-V <sub>mp</sub> (V)	41.3	41.7	42.1	42.5	42.8	43.2	43.6
Maximum Power Current-I <sub>mp</sub> (A)	9.68	9.71	9.73	9.77	9.80	9.84	9.87
Open Circuit Voltage-V <sub>oc</sub> (V)	48.2	48.6	50.1	50.5	50.8	51.4	51.8
Short Circuit Current-I <sub>sc</sub> (A)	10.30	10.33	10.37	10.40	10.43	10.47	10.50
Module Efficiency -m (%)	20.0	20.3	20.5	20.8	21.0	21.3	21.5

\*STC: Irradiance 1000W/m<sup>2</sup>, Air Mass 1.5, Cell Temperature 25°C, Reference temperature 25°C.

Electrical characteristics with different power bin (reference to 10% Irradiance ratio)

Total Equivalent Power-P <sub>max</sub> (Wp)	426	431	437	442	447	453	458
Maximum Power Voltage-V <sub>mp</sub> (V)	41.3	41.7	42.1	42.5	42.8	43.2	43.6
Maximum Power Current-I <sub>mp</sub> (A)	10.31	10.34	10.36	10.41	10.44	10.48	10.51
Open Circuit Voltage-V <sub>oc</sub> (V)	48.2	48.6	50.1	50.5	50.8	51.4	51.8
Short Circuit Current-I <sub>sc</sub> (A)	10.97	11.00	11.04	11.08	11.11	11.15	11.18
Irradiance ratio (rear/front)	10%						

Power density (W/m<sup>2</sup>)

Maximum Power-P <sub>max</sub> (Wp)	312	308	312	315	319	324	328
Maximum Power Voltage-V <sub>mp</sub> (V)	38.6	39.0	39.3	39.7	40.0	40.4	40.7
Maximum Power Current-I <sub>mp</sub> (A)	7.98	7.91	7.93	7.96	7.98	8.01	8.04
Open Circuit Voltage-V <sub>oc</sub> (V)	46.6	47.0	47.5	47.8	48.2	48.7	49.1
Short Circuit Current-I <sub>sc</sub> (A)	8.30	8.32	8.36	8.38	8.41	8.44	8.46

NOCT: Backsheet at 65°C/Watt, Ambient Temperature 20°C, Wind Speed 1m/s.

MECHANICAL DATA

Solar Cells	Topcon Bifacial
No. of cells	144 cells
Module Dimensions	1792±1134±30 mm (69.37±44.65±1.18 inches)
Weight	21.3kg (47.0 lb)
Front Glass	3.2 mm (0.126 inches) High Transmission, Tempered Glass
Encapsulant material	POE/EVA
Backsheet	Black Gold Transparent Backsheet
Frame	30mm (1.18 inches) Anodized Aluminium Alloy, Black
J-Box	IP68 rated
Cables	Photovoltaic Technology Cable 4-core* (0.006 inches)* Landscape 1100 mm P1100 mm (43.31/43.31 inches)
Connector	MCC EV02
File Type	Type 1 or Type 2

TEMPERATURE RATINGS

NOCT (Forward current at 1000W/m <sup>2</sup> )	43°C (109°F)
Temperature Coefficient of Power	-0.300%/°C
Temperature Coefficient of Voc	-0.240%/°C
Temperature Coefficient of Isc	0.04%/°C

PACKAGING CONFIGURATION

Modules per box	36 pieces
Modules per 40' container	792 pieces
Pallet dimensions L x W x H	1800 x 1138 x 1259 mm
Pallet weight	820 kg (1827 lb)

\*Power and file types are under study, to be added.

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT.  
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Version number: TSM\_VA\_EN\_2023\_A

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## Certificate Of Completion

Envelope Id: 36853D44-BA46-4551-BA10-5D27797A58E4

Status: Completed

Subject: SIGNATURE: Net-Metering Agreement - Donna Doutney (ELE/250571)

Source Envelope:

Document Pages: 27

Signatures: 5

Envelope Originator:

Certificate Pages: 5

Initials: 0

April Adolf

AutoNav: Enabled

110 SE Watula Avenue

Envelopeld Stamping: Enabled

City Hall, Third Floor

Time Zone: (UTC-05:00) Eastern Time (US & Canada)

Ocala, FL 34471

aadolf@ocalafl.gov

IP Address: 216.255.240.104

## Record Tracking

Status: Original

Holder: April Adolf

Location: DocuSign

4/8/2025 8:24:05 PM

aadolf@ocalafl.gov

Security Appliance Status: Connected

Pool: StateLocal

Storage Appliance Status: Connected

Pool: City of Ocala - Procurement & Contracting

Location: Docusign

## Signer Events

William E. Sexton

wsexton@ocalafl.org

City Attorney

City of Ocala

Security Level: Email, Account Authentication  
(None)

## Signature

DocuSigned by:

*William E. Sexton*

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## Timestamp

Sent: 4/8/2025 8:29:52 PM

Viewed: 4/9/2025 11:38:31 AM

Signed: 4/9/2025 11:39:17 AM

Signature Adoption: Pre-selected Style

Using IP Address: 216.255.240.104

## Electronic Record and Signature Disclosure:

Not Offered via Docusign

Janice Mitchell

jmitchell@Ocalafl.org

CFO

City of Ocala

Security Level: Email, Account Authentication  
(None)

Signed by:

*Janice Mitchell*

55198B43858A4E1...

Sent: 4/9/2025 11:39:19 AM

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## Electronic Record and Signature Disclosure:

Accepted: 4/9/2025 12:14:18 PM

ID: a477b994-a669-459b-a5e1-713f17bd9780

Chris Gowder

chris.gowder@fmpa.com

Chief Sys Ops & Tech Officer

Security Level: Email, Account Authentication  
(None)

DocuSigned by:

*Chris Gowder*

087F58EBB34B474...

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Viewed: 4/9/2025 1:17:44 PM

Signed: 4/9/2025 1:17:54 PM

Signature Adoption: Uploaded Signature Image

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## Electronic Record and Signature Disclosure:

Accepted: 4/9/2025 1:17:44 PM

ID: b412abd9-7f29-4543-8504-696c84081c90

## In Person Signer Events

## Signature

## Timestamp

## Editor Delivery Events

## Status

## Timestamp

## Agent Delivery Events

## Status

## Timestamp

## Intermediary Delivery Events

## Status

## Timestamp

Certified Delivery Events	Status	Timestamp
Carbon Copy Events	Status	Timestamp
Witness Events	Signature	Timestamp
Notary Events	Signature	Timestamp
Envelope Summary Events	Status	Timestamps
Envelope Sent	Hashed/Encrypted	4/8/2025 8:29:52 PM
Certified Delivered	Security Checked	4/9/2025 1:17:44 PM
Signing Complete	Security Checked	4/9/2025 1:17:54 PM
Completed	Security Checked	4/9/2025 1:17:54 PM
Payment Events	Status	Timestamps
Electronic Record and Signature Disclosure		



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