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

1. Customer Information

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.

Name: Christine Marin
Mailing Address: 1510 NW 1st Ave
City: Ocala State: FL Zip Code: 34475
Phone Number: 352-648-6081 Alternate Phone Number:
Email Address: chrisy1264@gmail.com Fax Number:
Ocala Electric Utility Customer Account Number: 570161-212949
2. RGS Facility Information
Facility Location: 1510 NW 1st Ave Ocala, FL 34475
Ocala Electric Utility Customer Account Number: 57 0 1 61 -21 2949
RGS Manufacturer: Trina Solar / Enphase
Manufacturer's Address: 7100 Stevenson Blvd, Fremont, CA 94538
47281 Bayside Pkwy. Fremont, CA 94538
Reference or Model Number: tsm-390de09c.07 / IQ8plus-72-2-US
Serial Number:

(Continued on Sheet No.19.1)

Effective: October 1, 2019

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

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3. Facility Rating Information

Gross Power Rating: <u>4.973</u> ("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: 7/31/24

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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Effective: October 1, 2019

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

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

Effective: October 1, 2019

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

Tier 1 - \$100,000.00

Tier 2 - \$1,000,000.00

Tier 3 - \$2,000,000.00

Customer

By:Christine Marin	Date: 7/29/2024
(Print Name)	
Signed by:	
(Signature)	

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
29 day ofJuly , 20_24, 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 Christine Marin, a retain
electric customer of OEU (hereinafter "Customer").

Section 1. Recitals

- 1.01. OEU and Customer have executed OEU's Standard Interconnection Agreement for a Customer-Owned Renewable Generation System (RGS) pursuant to which OEU has agreed to permit interconnection of Customer's renewable generation to OEU's electric system at Customer's presently-metered location, and Customer has agreed to deliver excess electric energy generated by Customer's Renewable Generation System to OEU's electric distribution system;
- 1.02. The City of Ocala and FMPA have entered into the All-Requirements Power Supply Contract, dated as of May 1, 1986, (hereinafter the "ARP Contract") pursuant to which the City of Ocala has agreed to purchase and receive, and FMPA has agreed to sell and supply OEU with all energy and capacity necessary to operate the OEU electric system, which limits OEU's ability to directly purchase excess energy from customer-owned renewable generation.
- 1.03. In order to promote the development of small customer-owned renewable generation by permitting OEU to allow its customers to interconnect with OEU's electric system and to allow OEU's electric customers to offset their electric consumption with customer-owned renewable generation, FMPA, in accordance with the terms and conditions of this agreement, has agreed to purchase excess customer-owned generation from OEU's electric customers interconnected to OEU's electric system.

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

Section 2. Interconnection

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

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

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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)

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.

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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. <u>Assignment.</u> 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 <u>Amendment.</u> 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. <u>Indemnification</u>. 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)

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. <u>Severability</u>. 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)

Effective: October 1, 2019

OCALA ELECTRIC UTILITY OCALA, FLORIDA (Continued from Sheet No. 20.4) FIRST REVISED SHEET NO. 20.5 CANCELS ORIGINAL SHEET NO. 20.5

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

City of Ocala Electric Utility	Florida Municipal Power Agency
By: Signed by: Jania Mitdell	By: Obesidaned by:
Title: CFO	Title: VP of IT/OT and System Ops
Date: 8/27/2024	Date: 8/27/2024
Customer	7/29/2024
By: Christine Marin Slayed by: Name) Slayed by: Name (Signature)	Date: 7/29/2024
Customer's City of Ocala Electric Utilit	ry Account Number: _570161-212949
Approved as to form and legality:	
Docustigned by: William E. Schton	_
William E. Sexton, Esq.	
City Attorney	

(Continued on Sheet No. 20.6)

Effective: October 1, 2019

OCALA ELECTRIC UTILITY OCALA, FLORIDA (Continued from Sheet No. 20.5) FIRST REVISED SHEET NO. 20.6 CANCELS ORIGINAL SHEET NO. 20.6

Tri-Party Net-Metering Power Purchase Agreement Schedule A

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

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

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

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

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

II. Payment for Unused Excess Energy Credits

- a) Monthly excess energy credits shall accumulate and be used to offset the Customer's following month energy consumption bill for a period of not more than twelve (12) months.
- b) At the end of each calendar year, OEU shall pay the Customer for any unused excess energy credits in accordance with the OEU Electric Net-Metering Service Rate Schedule.

Issued by: Michael Poucher, P.E. Effective: October 1, 2019

Electric Utility Director

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 ente	ered into this29_	day <u>of</u>	July	_, 20 <u>24</u>	_, by and
between Christine Mari	<u>n</u>	, (h	ereinafter o	called "Cus	stomer"), l	ocated at
1510 NW 1st Ave	in	Ocala	, Florid	la, and the	City of C	Ocala doing
business as Ocala Electri	c Utility	(hereinafter called	OEU), a b	ody politic	. Custome	er and OEU
shall collectively be calle	d the "Pa	arties". The physica	l location/p	remise wh	ere the inte	rconnection
is taking place: 1510 NV	V 1st Av	ve Ocala. FL 3447	5			

WITNESSETH

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

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

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

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

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

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

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

(Continued on Sheet No. 21.1)

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)

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)

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

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

- 12. The Customer's RGS must have an appropriately sized grid-tie inverter system that includes applicable protective systems. Customer certifies that the RGS equipment includes an OEU interactive inverter or interconnection system equipment that ceases to interconnect with the OEU system upon a loss of OEU's electric power. The inverter shall be considered certified for interconnected operation if it has been submitted by a manufacturer to a nationally recognized testing laboratory (NRTL) to comply with UL 1741. The NRTL shall be approved by the Occupational Safety & Health Administration (OSHA).
- 13. If Customer adds another RGS that (i) utilizes the same OEU interactive inverter for both systems, or (ii) utilizes a separate OEU interactive inverter for each system, Customer shall provide OEU with sixty (60) days advance written notice of the addition.
- 14. The Customer shall not energize the OEU system when OEU's system is deenergized. The Customer shall cease to energize the OEU system during a faulted condition on the OEU system and/or upon any notice from OEU that the deenergizing of Customer's RGS equipment is necessary. The Customer shall cease to energize the OEU system prior to automatic or non-automatic reclosing of OEU's protective devices. There shall be no intentional islanding, as described in IEEE 1547, between the Customer's and OEU' systems.
- 15. The Customer is responsible for the protection of its generation equipment, inverters, protection devices, and other system components from damage from the normal and abnormal operations that occur on OEU system in delivering and restoring system power. Customer agrees that any damage to any of its property, including, without limitation, all components and related accessories of its RGS system, due to the normal or abnormal operation of OEU system, is at Customer's sole risk and expense. Customer is also responsible for ensuring that the customerowned 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)

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)

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' 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)

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)

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)

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)

OCALA ELECTRIC UTILITY OCALA, FLORIDA (Continued from Sheet No. 21.8) FIRST REVISED SHEET NO. 21.9 CANCELS ORIGINAL SHEET NO. 21.9

Effective: October 1, 2019

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

City of Ocala Electric Uti	lity: Customer:
By: Jania Mitchell	By: Christine Marin
Title: CFO	——————————————————————————————————————
Date:	Date: 7/29/2024
	City of Ocala Electric Utility Account Number:
	570161-212949
Approved as to form and le	egality:
Docusigned by: William E. Sexton	
William E. Sexton, Esq.	
City Attorney	

State Farm Florida Insurance Company A Stock Company With Home Offices in Taliahassee, Florida

Po Box 2356 Bloomington IL 61702-2356

AT4

H-19-6758-FB0E F H W

MARIN, CHRISTINE 1510 NW 1ST AVE OCALA FL 34475-9003

🥾 State Farm

BALANCE DUE NOTICE

AMOUNT DUE:

SEE NOTE

Payment is due by SEE NOTE

Policy Number: 80-EK-Y161-7 Policy Period: 12 Months

Effective Dates: JUN 20 2024 to JUN 20 2025

Your State Farm Agent ANGIE LEWIS CHFC 416 E FORT KING ST OCALA FL 34471-2240

Phone: (352) 291-2444

Location of Residence Premises

1510 NW 1ST AVE OCALA FL 34475-9003

IMPORTANT MESSAGES

Full payment by Date Due continues this policy to JUN 20 2025 Note: Do not pay. Payment is being made through State Farm Payment Plan. Account # 1690329519

Thanks for letting us serve you!

When you provide a check as payment, you authorize us either to use the information from your check to make a one-time electronic fund transfer from your account or to process the payment as a check transaction. When we use information from your check to make an electronic funds transfer, funds may be withdrawn from your account as soon as the same day we receive your payment, and you will not receive your check back from your financial institution.

Prepared: JUN 25 2024

 ♣Please fold and tear here

Page 1 of 1 04 05 2018 (o1F1082E)

Power To Pay Your Way



statefarm.com/pay





Automated Line: 800-440-0998 (352) 291-2444 Your agent:





HO - HOMEOWNERS

1909408298



Key code: 68 2446 3515

Insured Name: MARIN, CHRISTINE Policy Number: 80-EK-Y161-7

1S,2W,K2,K3,TG,8Y

AMOUNT DUE: SEE NOTE Please pay by SEE NOTE

Make payment to State Farm

FIRE BAL DUE

0829

For Office Use Only



NAMED INSURED

MORTGAGEE AND ADDITIONAL INTERESTS

MARIN, CHRISTINE

SECTION I - PROPERTY COVERAGES AND LIMITS	
Coverage	Limit of Liability
A Dwelling	\$ 270,000
Other Structures	\$ 27,000
B Personal Property	\$ 202,500
C Loss of Use	\$ 202,500 \$ 81,000 \$ 15,000
Fungus (including Mold) Limited Coverage	\$ 15,000
Additional Coverages Arson Reward Credit Card, Bank Fund Transfer Card, Forgery, and Counterfeit Money Debris Removal Fire Department Service Charge Fuel Oil Release Locks and Remote Devices Trees, Shrubs, and Landscaping	\$1,000 \$1,000 Additional 5% available/\$1,000 tree debris \$500 per occurrence \$10,000 \$1,000 5% of Coverage A amount/\$750 per item
SECTION II - LIABILITY COVERAGES AND LIMITS	
Coverage	Limit of Liability
L Personal Liability (Each Occurrence)	\$ 100,000
Damage to the Property of Others	\$ 1,000
M Medical Payments to Others (Each Person)	\$ 1,000

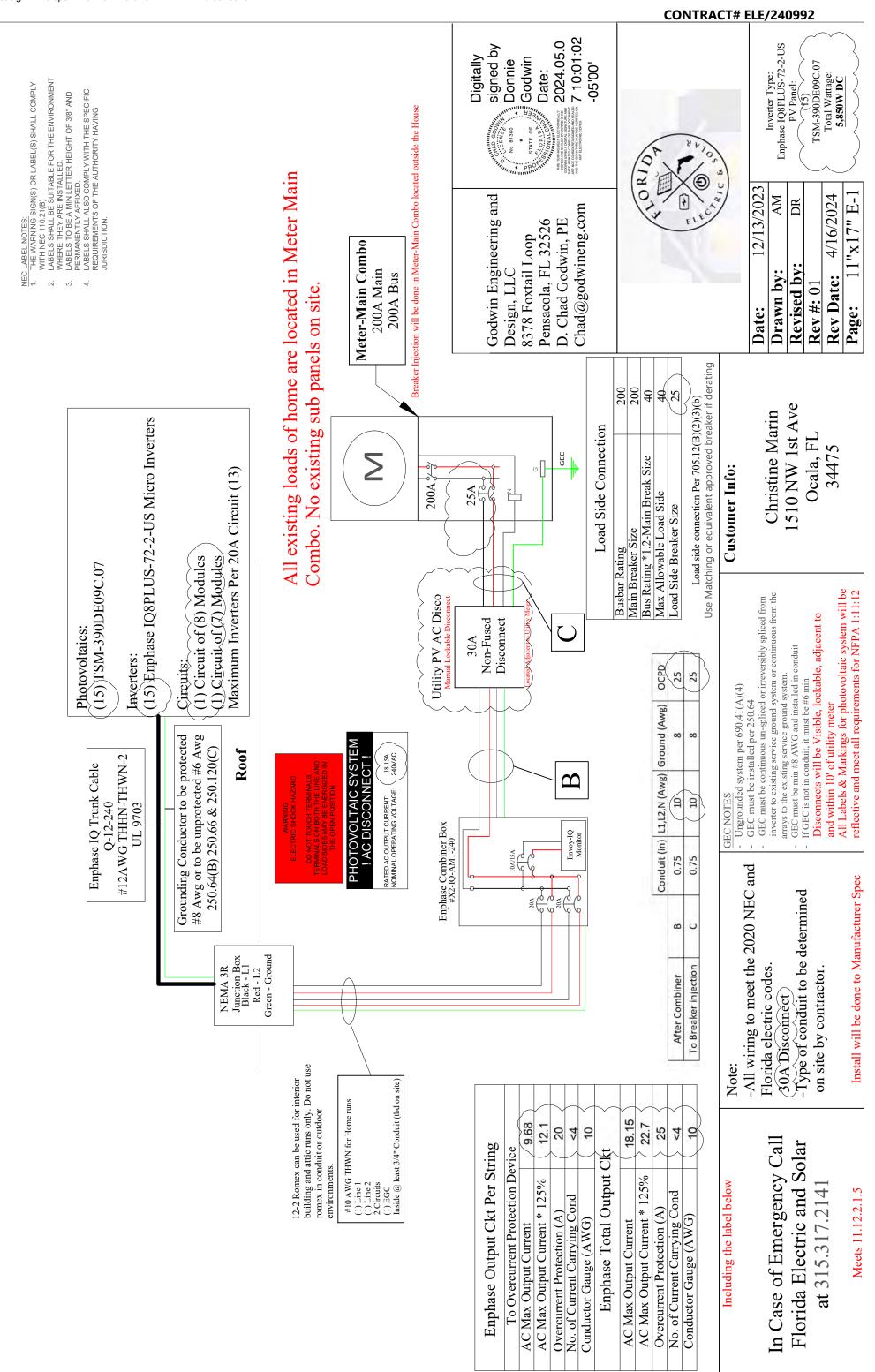
INFLATION
Inflation Coverage Index: 355.4

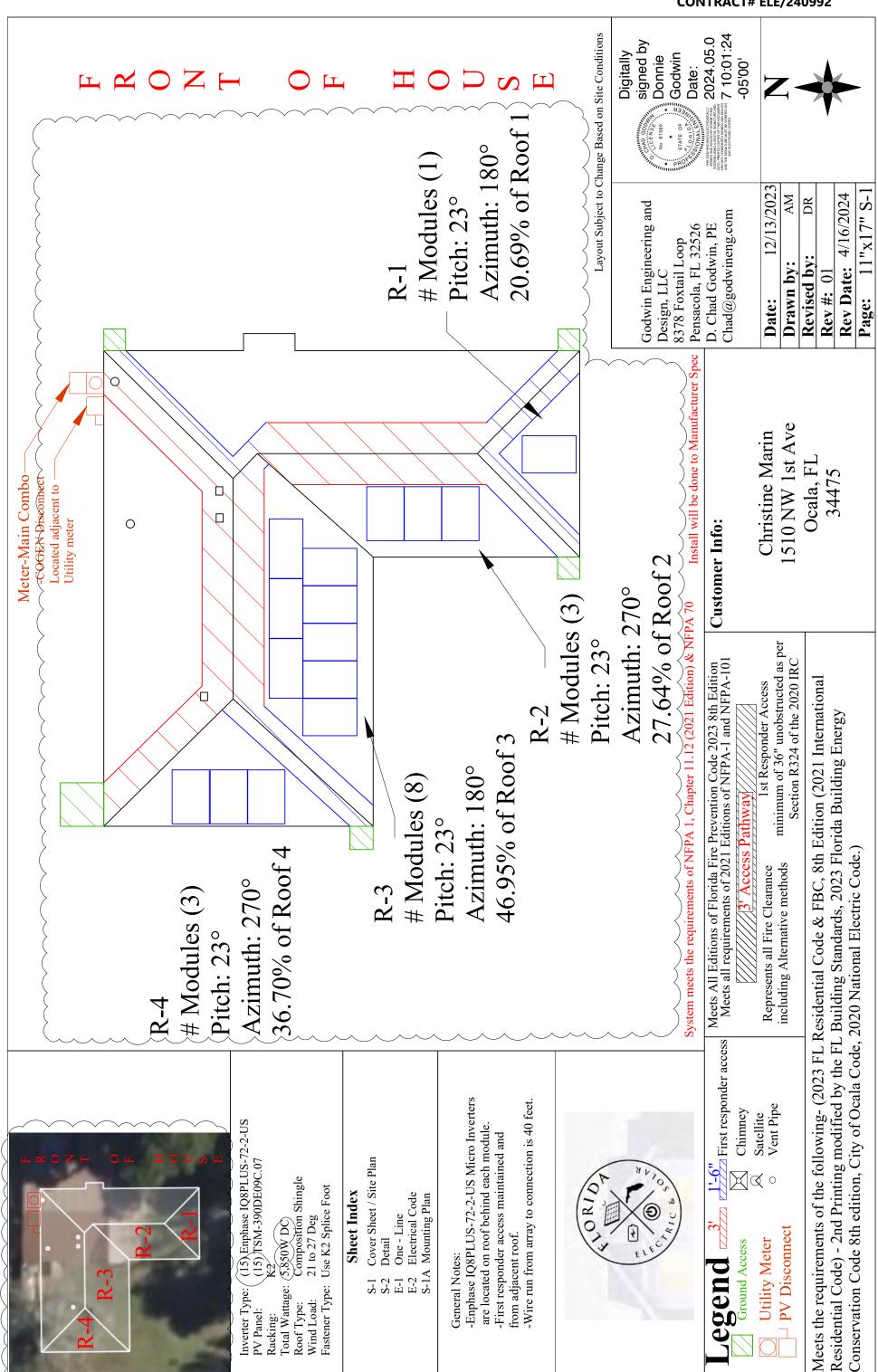
DEDITION DE

DEDOCURLES	
Section I Deductible	Deductible Amount
Other Losses 1 % Hurricane 2%	\$ 2,700 \$ 5,400

LOSS SETTLEMENT PROVISIONS

A1 Replacement Cost - Similar Construction B1 Limited Replacement Cost - Coverage B





Racking:

27-45

22/58 16-58

9

12

25

Maximum input DC short-circuit current Maximum continuous input DC current

Overvoltage class DC port

Maximum module I_{sc}

DC port backfeed current

PV array configuration

=

To meet compatibility, PV modules must be within maximum input DC voltage and maximum module I_{se}listed below. Module compatibility can be checked at https://enphase.com/installers/microinverters/calculator

27-37

22/48 16-48

Minimum/Maximum start voltage

Operating range

Maximum input DC voltage

20 9

108PLUS-72-2-U

108-60-2-US 235-350

≥

Commonly used module pairings¹

Module compatibility MPPT voltage range

Q8 and IQ8+ Microinverters

DATA SHEET

1 × 1 ungrounded array; no additional DC side protection required; AC side protection requires maximum 20 A per branch circuit.

108-60-2-US

242 240

Α> ۸

Maximum continuous output power

Peak output power

Nominal grid voltage (L-L)

IQ8PLUS-72-2-US

300

290

240, split-phase (L-L), 180°

211-264

6.

47-68

7

Arms

AC short-circuit fault current over

three cycles

Extended frequency range

Nominal frequency

Maximum units per 20 A (L-L) branch

¥ ¥

Maximum continuous output current Minimum and Maximum grid voltage²

9

1.21

5

9

ŝ

 \equiv





IQ8 and IQ8+ Microinverters

application-specific integrated circuit (ASIC), which enables the microinverter to operate in grid-tied or off-grid modes. This chip is built using advanced 55-nm technology with high-speed digital logic and has superfast response times to changing loads and grid events, alleviating Our newest IQ8 Microinverters are the industry's first microgrid-forming, software-defined microinverters with split-phase power conversion capability to convert DC power to AC power efficiently. The brain of the semiconductor-based microinverter is our proprietary constraints on battery sizing for home energy systems.



IQ8 Series Microinverters integrate with the Enphase App monitoring and analysis Part of the Enphase Energy System, IQ Battery, IQ Gateway, and the software.



IQ8 Series Microinverters redefine reliability standards with more than one million cumulative hours of power-on testing, enabling an industry-leading imited warranty of up to 25 years.



Connect PV modules quickly and easily to IQ8 Series Microinverters using the included Q-DCC-2 adapter cable with plug-and-play MC4 connectors.

conform with various regulations, when installed according to the manufacturer's Q8 Series Microinverters are UL Listed as PV rapid shutdown equipment and instructions.

*Meets UL 1741 only when installed with IQ System Controller 2. **IQ8 and IQ8+ support split-phase, 240 V installations only.

countries. Data subject to change. © 2023 Enphase Energy. All rights reserved. Enphase, the e and CC logos, IQ, and certain other marks listed at https://enphase.com/trademark-usage-guidelines are trademarks of Enphase Energy, Inc. in the US and other

- Lightweight and compact with plugand-play connectors
- Power line communication (PLC)
- Faster installation with simple two-wire cabling

High productivity and reliability

- Produce power even when the grid is
- More than one million cumulative hours of testing
- Class II double-insulated enclosure
- Optimized for the latest high-powered PV modules

Microgrid-forming

22

0.85 leading ... 0.85 lagging

0:

30

МA

Overvoltage class AC port

AC port backfeed current

Power factor setting

Total harmonic distortion

Grid-tied power factor (adjustable)

%

97.7

97

23

Nighttime power consumption

CEC weighted efficiency

Peak efficiency

Ambient temperature range

MECHANICAL DATA

Relative humidity range

DC connector type

Dimensions (H × W × D)

Weight Cooling

- Compliant with the latest advanced grid support**
- Remote automatic updates for the latest grid requirements
- Configurable to support a wide range of grid profiles
- Meet CA Rule 21 (UL 1741-SA) and IEEE[®] 1547:2018 (UL 1741-SB 3rd Ed.)

- previous generations of Enphase microinverters (IQ7 Series, IQ6 Series, and so on) in the same IQ8 Microinverters cannot be mixed with
- IQ Gateway is required to change the default grid profile at the time of installation to meet local Authority Having Jurisdiction (AHJ)

IQ8SP-12A-DSH-00207-2.0-EN-US-2023-10-13

CONTRACT# ELE/240992

Class II double-insulated, corrosion-resistant polymeric enclosure

NEMA Type 6/Outdoor

 $212 \text{ mm (8.3 in)} \times 175 \text{ mm (6.9 in)} \times 30.2 \text{ mm (1.2 in)}$

Natural convection-no fans

1.08 kg (2.38 lbs)

-40°C to 60°C (-40°F to 140°F)

4% to 100% (condensing)

ers per branch in your area. (1) No enforced DC/AC ratio.

(2) Nominal voltage range can be extended beyond nominal if required by the utility.

(3) Limits may vary, Refer to local requirements to define the number of microinverten.

Environmental category/UV exposure rating

Approved for wet locations

Pollution degree

Enclosure

IQ8SP-12A-DSH-00207-2.0-EN-US-2023-10-13

1Q Combiner 4C with 1Q Gateway printed circuit board for integrated revenue grade PV production metering (ANSI C12.20 ± 0.5%) and consumption monitoring (± 2.5%). Includes Mobile Connect cellular modem (CELLMODEM-M1-06-SP-05), a plug-and-play industrial-grade cell modem for systems up to 60 microinverters. (Available in the US, Canada, Mexico, Puerto Rico, and the US Virgin Islands, where there is adequate cellular service in the installation area.) Includes a silver solar shield to match the

Supports Eaton BR210, BR215, BR220, BR230, BR240, BR250, and BR260 circuit breakers.

Circuit breaker, 2 pole, 10A, Eaton BR210
Circuit breaker, 2 pole, 15A, Eaton BR215
Circuit breaker, 2 pole, 20A, Eaton BR220
Circuit breaker, 2 pole, 15A, Eaton BR215B with hold down kit support
Circuit breaker, 2 pole, 20A, Eaton BR215B with hold down kit support
Circuit breaker, 2 pole, 20A, Eaton BR220B with hold down kit support

Includes COMMS-KIT-01 and CELLMODEM-M1-06-SP-05 with 5-year Sprint data plan

106, 107, and 108. (Do not mix 106/7 Microinverters with 108)

(not included, order separately)

ACCESSORIES AND REPLACEMENT PARTS

COMMS-CELLMODEM-M1-06

Communications Kit

Supported microinverters

CELLMODEM-M1-06-SP-05 CELLMODEM-M1-06-AT-05

Circuit Breakers BRK-10A-2-240V BRK-15A-2-240V

BRK-15A-2P-240V-B BRK-20A-2P-240V-B XA-SOLARSHIELD-ES

BRK-20A-2P-240V

X2-IQ-AM1-240-4C (IEEE 1547:2018)

X-IQ-AM1-240-4C

IQ Combiner 4C

X2-IQ-AM1-240-4 (IEEE 1547:2018)

IQ Combiner 4 X-IQ-AM1-240-4

Q Combiner 4/4C

MODEL NUMBER

4G based LTE-M1 cellular modem with 5-year Sprint data plan - 4G based LTE-M1 cellular modem with 5-year AT&T data plan

Accessory receptacle for Power Line Carrier in IQ Combiner 4/4C (required for EPLC-01)

Replacement solar shield for IQ Combiner 4/4C

Hold-down kit for Eaton circuit breaker with screws

A pair of 200A split core current transformers

120/240VAC, 60 Hz

ELECTRICAL SPECIFICATIONS

-200-SPLIT/CT-200-CLAMP)

Consumption monitoring CT

X-IQ-NA-HD-125A

XA-PLUG-120-3

125A

Eaton BR series busbar rating

System voltage

Max. continuous current rating

64A 65A

Max. continuous current rating (input from PV/storage)

Max. total branch circuit breaker rating (input)

Branch circuits (solar and/or storage)

Max. fuse/circuit rating (output)

90A

IQ Combiner 4 with IQ Gateway printed circuit board for integrated revenue grade PV production metering (ANSI C12. 20 ± 0.5%) and consumption monitoring (± 2.5%). Includes a silver solar shield to match the IQ Battery and IQ System Controller 2 and to

IQ Combiner 4/4C



X-IQ-AM1-240-4

X2-IQ-AM1-240-4 (IEEE 1547:2018)



To learn more about Enphase offerings, visit enphase.com IQ-C-4-4C-DS-0103-EN-US-12-29-2022

enclosure. It streamlines IQ Microinverters and storage installations by providing a consistent, pre-wired solution for residential applications. The IQ Combiner 4/4C with IQ Gateway and It offers up to four 2-pole input circuits and integrated LTE-M1 cell modem (included only with IQ Combiner 4C) consolidates interconnection equipment into a single Eaton BR series busbar assembly.

- · Includes IQ Gateway for communication and control Includes Mobile Connect cellular modem
 - (CELLMODEM-M1-06-SP-05), included only with IQ Combiner 4C
- Includes solar shield to match Enphase IQ Battery
 - Supports Wi-Fi, Ethernet, or cellular connectivity aesthetics and deflect heat
- Optional AC receptacle available for PLC bridge
- Provides production metering and consumption monitoring

Mounts on single stud with centered brackets

37.5 cm x 49.5 cm x 16.8 cm (14.75 in x 19.5 in x 6.63 in). Height is 53.5 cm (21.06 in) with mounting brackets.

Outdoor, NRTL-certified, NEMA type 3R, polycarbonate construction

Enclosure environmental rating

Wire sizes

Ambient temperature range

MECHANICAL DATA

Dimensions (WxHxD)

Production metering CT

IQ Gateway breaker

Natural convection, plus heat shield -40°C to +46°C (-40°F to 115°F)

7.5 kg (16.5 lbs)

20A to 50A breaker inputs: 14 to 4 AWG copper conductors
60A breaker branch input: 4 to 1/0 AWG copper conductors
Main lug combined output: 10 to 2/0 AWG copper conductors
Neutral and ground: 14 to 1/0 copper conductors
Always follow local code requirements for conductor sizing.

Up to 3,000 meters (9,842 feet)

INTERNET CONNECTION OPTIONS

Integrated Wi-Fi

Cellular

Up to four 2-pole Eaton BR series Distributed Generation (DG) breakers only (not included)

80A of distributed generation/95A with IQ Gateway breaker included

200A solid core pre-installed and wired to IQ Gateway

10A or 15A rating GE/Siemens/Eaton included

- Supports bottom, back and side conduit entry
- Allows up to four 2-pole branch circuits for 240VAC plug-in breakers (not included)
- 80A total PV or storage branch circuits

Reliable

- Durable NRTL-certified NEMA type 3R enclosure
 - Five-year limited warranty
- Two years labor reimbursement program coverage
 - included for both the IQ Combiner SKU's
- X2-IQ-AM1-240-4 and X2-IQ-AM1-240-4C comply with **UL listed**
 - IEEE 1547:2018 (UL 1741-SB, 3rd Ed.)



CONTRACT# ELE/240992

CELLMODEM-M1-06-SP-05, CELLMODEM-M1-06-AT-05 (4G based LTE-M1 cellular modem). Note that an Mobile Connect

Optional, IEEE 802.3, Cat5E (or Cat6) UTP Ethernet cable (not included)

cellular modem is required for all Enphase Energy System installations

© 2022 Enphase Energy. All rights reserved. Enphase, the Enphase logo, IQ Combiner 4/4C, and other names are trademarks of Enphase Energy, Inc. Data subject to change. UL 60601-1/CANCSA 22.2 No. 61010-1 Compliance, IQ Gateway

Consumption metering: accuracy class 2.5

CA Rule 21 (UL 1741-SA)
IEEE 1547:2018 - UL 1741-SB, 3rd Ed. (X2-IQ-AM1-240-4 and X2-IQ-AM1-240-4C)
CAN/CSA C22.2 No. 1071, Title 47 CFR, Part 15, Class B ICES 003
Production metering: ANSI C12.20 accuracy class 0.5 (PV production)

Compliance, IQ Combiner

COMPLIANCE

IQ-C-4-4C-DS-0103-EN-US-12-29-2022



PRODUCT: TSM-DE09C.07 PRODUCT RANGE: 380-405W

POSITIVE POWER TOLERANCE

MAXIMUM POWER OUTPUT

405W

MS+~0

MAXIMUM EFFICIENCY

(∞)

High value

More productivity from same roof size. Outstanding visual appearance.

Leading 210mm cell technology.

Small in size, big on power

- Small format module allow greater energy generation in limited space.
 Up to 405W, 21.1% module efficiency with high density interconnect
 - Multi-busbar technology for better light trapping effect, lower series technology
 - resistance and improved current.
- Reduce installation cost with higher power bin and efficiency.
- Boost performance in warm weather with lower temperature coefficient (-0.34%) and operating temperature.

Universal solution for residential and জেl rooftops

ELECTRICAL DATA (STC)

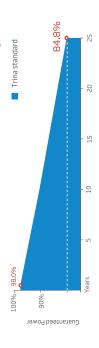
- Designed for compatibility with existing mainstream optimizers, inverters and mounting systems.
- Perfect size and low weight makes handling and transportation easier
 - Diverse installation solutions for flexibility in system deployment and more cost-effective.

High Reliability

- Minimized micro-cracks with innovative non-destructive cutting 25 year product warranty.
 25 year performance warranty with lowest degradation.
 - technology
- Ensured PID resistance through cell process and module material control.

Mechanical performance up to +6000 Pa and-4000 Pa negative load

Trina Solar's Backsheet Performance Warranty





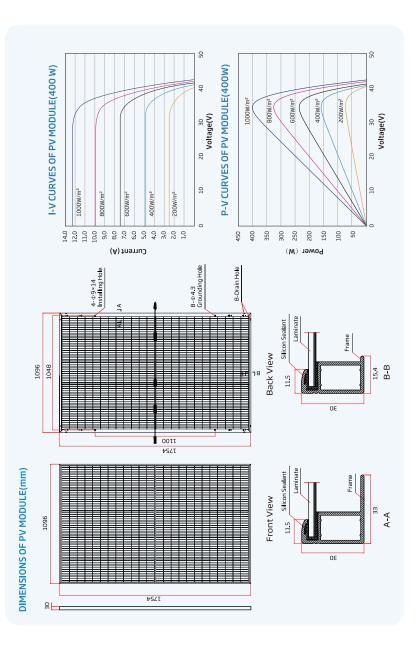
| Color | Colo

Comprehensive Products and System Certificates

Vertex S BACKSHEET MONOGRYSTALLINE MODULE

Multi Solutions

Mono



390	395	400	405
~	5+ ~ 0		
33.6 33.8	34.0	34.2	34.4
11.46 11.54	11.62	11.70	11.77
40.6 40.8	41.0	41.2	41.4
12.07 12.14	12.21	12.28	12.34
20.0 20.3	20.5	20.8	21.1
STC: Irrdiance 1000W/m2, Cell Temperature 25°C, Air Mass AM1.5. *Measuring tolerance: ±3%.			
(reference t	o 10% Irra	adiance ra	itio)
417	423	428	433
33.6 33.8	34.0	34.2	34.4
12.26 12.34	12.44	12.51	12.59
40.6 40.8	41.0	41.2	41.4
13.00 13.08	13.20	13.25	13.36
1	%0		
294	298	302	305
31.6 31.8	31.9	32.1	32.4
9.18 9.24	9.32	9.38	9.42
38.2 38.4	38.6	38.8	38.9
9.73 9.78	9.84	9.90	9.94
NOCT: Irradiance at 800W/m², Ambient Temperature 20°C, Wind Speed 1m/s.			
	40.8 20.3 (reference ±3%, (reference ±477 33.8 12.34 40.8 113.08 13.18 31.8 31.8 31.8 9.24 38.4	40.8 41.0 20.3 20.5 20.3 20.5 (reference to 10% irr 41.7 42.3 33.8 34.0 112.34 12.44 40.8 41.0 113.08 13.20 1 33.8 33.8 34.8 43.0 1 33.8 33.8 34.8 43.0 1 34.8 43.0	41.0 12.21 20.5 423 34.0 12.44 41.0 13.20 9% 31.9 31.9 31.9 33.2 38.6 9.84

							NOC1 (Nominal)
ance ratio (rear/front)			Ť.	10%			Temperature
Bifaciality:70±5%,							Temperature
FRICAL DATA (NOCT)							Temperature
mum Power-Рмах (Wp)	586	290	294	298	302	305	
mum Power Voltage-Vмгг (V)	31.4	31.6	31.8	31.9	32.1	32.4	WARRANTY
mum Power Current-IMPP (A)	9.12	9.18	9.24	9.32	9.38	9.42	25 year Produ 25 vear Powe
Circuit Voltage-Voc (V)	38.0	38.2	38.4	38.6	38.8	38.9	2% first year
t Circuit Current-Isc (A)	29.67	9.73	9.78	9.84	9.90	9.94	0.55% Annua
rradiance at 800W/m², Ambient Temperature 20°C, Wind Speed 1m/s.	e 20°C, Wind S	peed 1m/s.					(Please refer to pro

Solar Cells	Monocrystalline
No. of cells	120 cells
Module Dimensions	1754×1096×30 mm (69.06×43.15×1.18 inches)
Weight	21.0 kg (46.3 lb)
Glass	3.2 mm (0.13 inches), High Transmission, AR Coated Heat Strengthened Glass
Encapsulant material	EVA/POE
Backsheet	Transparent backsheet
Frame	30mm(1.18 inches) Anodized Aluminium Alloy
J-Box	IP 68 rated
Cables	Photovothaic Technology Gable 4.0mm² (0.006 inches²), Portrait: 350/280 mm(13.78/11.02 inches) Landscape: N 1100 mm /P 1100 mm (43.31/43.31 inches)
Connector	MC4 EV02 / T54*

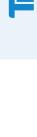
+	TEMPERATURE RATINGS		MAXIMUMRATINGS	
36	NOCT (Nominal Operating Cell Temperature)	43°C(±2°C)	Operational Temperature	-40~+85°C
	Temperature Coefficient of PMAX	-0.34%/°C	Maximum System Voltage	1500V DC (IEC
	Temperature Coefficient of Voc	-0.25%/°C		1500V DC (UL
	Temperature Coefficient of Isc	0.04%/°C	Max Series Fuse Rating	25A
7.0				
	WARRANTY		PACKAGING CONFIGUREATION	TION
4.	25 year Product Workmanship Warranty	antv	Modules ner hox: 36 pieces	
45				
	25 year Power Warranty		Modules per 40' container: 828 pieces	328 pieces
9.9	2% first year degradation			
94	0.55% Annual Power Attenuation			

1500V DC (IEC) 1500V DC (UL)



www trinasolar.com CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT.

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CONTRACT# ELE/240992

Status: Completed

420 South Cedar Ave

Sent: 7/22/2024 8:11:07 AM

Resent: 7/23/2024 6:44:03 AM

Resent: 7/29/2024 9:57:19 AM

Viewed: 7/29/2024 11:47:53 AM

Signed: 7/29/2024 11:51:11 AM

DocuSign

Certificate Of Completion

Envelope Id: 7F022975FC3A427AAA077402DE6040F8

Subject: Complete with Docusign: Tier 1 Blank Solar Packet.pdf

Source Envelope:

Document Pages: 20 Signatures: 3 Envelope Originator:

Certificate Pages: 4 Initials: 0 Florida Electric And Solar Ops Team

AutoNav: Enabled

Envelopeld Stamping: Enabled Tampa, FL 33606-2221

Time Zone: (UTC-08:00) Pacific Time (US & Canada) nick@floridaelectricandsolar.com
IP Address: 47.200.203.162

. .- ..

Record Tracking

Status: Original Holder: Florida Electric And Solar Ops Team Location: DocuSign

7/22/2024 8:09:22 AM nick@floridaelectricandsolar.com

Signer Events Signature Timestamp

Christine Marin chrisy1264@gmail.com

Security Level: Email, Account Authentication

(None)

Signature Adoption: Drawn on Device Using IP Address: 174.228.167.48

Signed using mobile

Electronic Record and Signature Disclosure:

Accepted: 7/29/2024 11.47:53 AM ID: 444c19d2-ea0f-4306-b85d-e5878fb7d5c1

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 7/22/2024 8:11:07 AM
Certified Delivered Security Checked 7/29/2024 11:47:53 AM
Signing Complete Security Checked 7/29/2024 11:51:11 AM

Completed Security Checked 7/29/2024 11:51:11 AM

Payment Events Status Timestamps

Electronic Record and Signature Disclosure

Certificate Of Completion

Envelope Id: 94B37FF66B8D4BF2ADF066783291B4A2

Subject: FOR SIGNATURES-Net Metering Agreement_ Christine Marin (ELE/240992)

Source Envelope:

Document Pages: 28 Signatures: 5 **Envelope Originator:**

Certificate Pages: 5 Initials: 0 April Adolf

AutoNav: Enabled

Envelopeld Stamping: Enabled

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

aadolf@ocalafl.gov

IP Address: 216.255.240.104

Sent: 8/21/2024 5:40:46 PM

Sent: 8/27/2024 12:59:59 PM

Viewed: 8/27/2024 1:56:49 PM

Signed: 8/27/2024 1:59:14 PM

Sent: 8/27/2024 1:59:16 PM

Viewed: 8/27/2024 2:09:03 PM

Signed: 8/27/2024 2:09:22 PM

Viewed: 8/27/2024 12:59:24 PM

110 SE Watula Avenue

City Hall, Third Floor

Ocala, FL 34471

Status: Completed

Record Tracking

Location: DocuSign Status: Original Holder: April Adolf

8/21/2024 5:22:46 PM aadolf@ocalafl.gov

Security Appliance Status: Connected Pool: StateLocal

Storage Appliance Status: Connected Pool: City of Ocala - Procurement & Contracting Location: DocuSign

B07DCFC4E86E429...

William E. Sexton

Signer Events Signature **Timestamp** DocuSigned by

William E. Sexton wsexton@ocalafl.org

City Attorney City of Ocala

Security Level: Email, Account Authentication

(None)

Signed: 8/27/2024 12:59:57 PM Signature Adoption: Pre-selected Style

Electronic Record and Signature Disclosure:

Not Offered via DocuSign

Janice Mitchell imitchell@Ocalafl.org

CFO City of Ocala

Security Level: Email, Account Authentication

(None)

Janice Mitchell

Signed by:

Signature Adoption: Pre-selected Style

Using IP Address: 216.255.240.104

Using IP Address: 216.255.240.104

Electronic Record and Signature Disclosure:

Accepted: 8/27/2024 1:56:49 PM ID: 75e55713-d816-4f5d-9c6d-2cd95ec5ba04

Chris Gowder

chris.gowder@fmpa.com VP of IT/OT and System Ops

Security Level: Email, Account Authentication

(None)

Signature Adoption: Uploaded Signature Image

Using IP Address: 107.77.215.21

Signed using mobile

DocuSigned by:

087F58EBB34B474...

Electronic Record and Signature Disclosure:

Accepted: 8/27/2024 2:09:03 PM

In Person Signer Events

ID: 03ac8821-bd9b-47cc-8307-1355139cb16f

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 Summary Events Envelope Sent	Status Hashed/Encrypted	Timestamps 8/21/2024 5:40:47 PM
•		•
Envelope Sent	Hashed/Encrypted	8/21/2024 5:40:47 PM
Envelope Sent Certified Delivered	Hashed/Encrypted Security Checked	8/21/2024 5:40:47 PM 8/27/2024 2:09:03 PM
Envelope Sent Certified Delivered Signing Complete	Hashed/Encrypted Security Checked Security Checked	8/21/2024 5:40:47 PM 8/27/2024 2:09:03 PM 8/27/2024 2:09:22 PM

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