

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: SRISHA RAO

Mailing Address: 1706 SE 33rd St

City: Ocala State: FL Zip Code: 34471

Phone Number: (352) 875-8595 Alternate Phone Number: _____

Email Address: raosushil@hotmail.com Fax Number: _____

Ocala Electric Utility Customer Account Number: 504836-162824

2. RGS Facility Information

Facility Location: 1706 SE 33rd St Ocala, FL 34471

Ocala Electric Utility Customer Account Number: 504836-162824

RGS Manufacturer: Jinko 420 BOB

Manufacturer's Address: _____

Reference or Model Number: JKM420N-54HL4-B (420)

Serial Number: _____

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

Effective: October 1, 2019

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3. Facility Rating Information

Gross Power Rating: 20.349 (“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: July 2024

4. Application Fee

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

5. Interconnection Study Fee

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

6. Required Documentation

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

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

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B. Documentation that the customer-owned renewable generation has been inspected and approved by local code officials prior to its operation in parallel with the Ocala Electric Utility system to ensure compliance with applicable local codes. OEU will also require proof of commission testing by a qualified 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: SRISHA RAO Date: 6/26/2024
(Print Name)



(Signature)

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Tri-Party Net-Metering Power Purchase Agreement

This Tri-Party Net-Metering Power Purchase Agreement (this "Agreement") is entered into this 26 day of June, 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 SRISHA RAO, a retail electric customer of OEU (hereinafter "Customer").

Section 1. Recitals

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

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

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

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

Section 2. Interconnection

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

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

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Section 3. Metering

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

Section 4. Purchase of Excess Customer-Owned Renewable Generation

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

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

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

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Electric Utility Director

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

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

Section 5. Renewable Energy Credits

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

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

Section 6. Term and Termination

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

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

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Section 7. Miscellaneous Provisions

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

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

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

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

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Electric Utility Director

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

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

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

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Electric Utility Director

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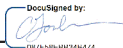
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IN WITNESS WHEREOF, Customer and OEU have executed this Agreement the day and year first above written.

City of Ocala Electric Utility

Florida Municipal Power Agency

By:  _____
Title: CFO
Date: 11/25/2024

By:  _____
Title: VP of IT/OT and System Ops
Date: 11/25/2024

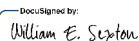
Customer

By: SRISHA RAO Date: 6/26/2024
(Print Name)

(Signature)

Customer's City of Ocala Electric Utility Account Number: 504836-162824

Approved as to form and legality:

 _____
William E. Sexton, Esq.
City Attorney

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

Effective: October 1, 2019

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**Tri-Party Net-Metering Power Purchase Agreement
Schedule A**

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

- a) FMPPA 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 FMPPA as soon as it becomes available, but no later than the second working day of every month. FMPPA 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. FMPPA will update the Quarterly Energy Rate every April 1, July 1, October 1 and January 1.

- b) As part of the monthly bill adjustment, FMPPA will also increase OEU's kWh billing amount by the same kWh amount as the customer-owned renewable generation purchased by FMPPA. This adjustment is necessary because excess customer generation that flows onto OEU's electric system has been purchased by FMPPA, 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 FMPPA's subsequent sale of this energy to OEU.

II. Payment for Unused Excess Energy Credits

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

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

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Tier 2
Standard Interconnection Agreement
Customer-Owned Renewable Generation System

This **Agreement** is made and entered into this 26 day of June, 20 24, by and between SRISHA RAO, (hereinafter called "**Customer**"), located at 1706 SE 33rd St in Ocala, Florida, and the City of Ocala doing business as Ocala Electric Utility (hereafter called "**OEU**"), a body politic. Customer and OEU shall collectively be called the "**Parties**". The physical location/premise where the inter-connection is taking place: 1706 SE 33rd St Ocala, FL 34471.

WITNESSETH

Whereas, a Tier 2 Renewable Generation System (RGS) is an electric generating system that uses one or of 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 more than 10 kilowatts (10 kW) but not greater than 100 kilowatts (100 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 parts of the City of Ocala and Marion County; 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 indentified 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 OEU has agreed to purchase and receive, and FMPA has agreed to sell and supply OEU with all energy and capacity necessary to operate OEU's electric system, which limits OEU's ability to directly purchase excess energy from customer-owned renewable generation; and

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

Whereas, 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;

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Electric Utility Director

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

1. The Customer shall be required to enter into a Tri-Party Net-Metering Purchase Power Agreement with FMPA and 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 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 2 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. In no case should modifications to the RGS be made such that the GPR increases above the 100 kilowatts (100 kW) limit.
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 be required to pay a non-refundable application fee of \$375 for the review and processing of the application.
6. The Customer shall fully comply with OEU's Rules and Regulations and Electric Service Specifications as those documents may be amended or revised by OEU 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*.

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Electric Utility Director

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- 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.
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 OEU of the date and time at which Customer intends to place the system in service, and OEU shall have the right to have personnel present on the in-service date in order to ensure compliance with the requirements of this Agreement.

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Issued by: Michael Poucher, P.E.
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12. The Customer's RGS must have an appropriately sized grid-tie inverter system that includes applicable protective systems. Customer certifies that the RGS equipment includes a utility-interactive inverter or interconnection system equipment that ceases to interconnect with the OEU system upon a loss of OEU 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 which (i) utilizes the same utility-interactive inverter for both systems; or (ii) utilizes a separate utility-interactive inverter for each system, then 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's electric 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's electric 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 electric system such that back feed from the customer-owned renewable generation system to OEU's electric system cannot occur when the switch is in the open position. The manual disconnect switch shall be mounted separate from the meter socket on an exterior surface adjacent to the meter. The switch shall be readily accessible to OEU and capable of being locked in the open position with an OEU padlock. When locked and tagged in the open position by OEU, this switch will be under the control of OEU.

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Electric Utility Director

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17. Subject to an approved inspection, including installation of acceptable disconnect switch, this Agreement shall be executed by OEU within thirty (30) calendar days of receipt of a completed application. Customer must execute this Agreement and return it to OEU at least thirty (30) calendar days prior to beginning parallel operations with OEU's electric system, subject to the requirements of Sections 18 and 19, 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 million dollars (\$1,000,000.00).

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 also 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.

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 OUS 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.

(Continued on Sheet No. 22.5)

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

Effective: October 1, 2019

OCALA ELECTRIC UTILITY
OCALA, FLORIDA
(Continued from Sheet No. 22.4)

FIRST REVISED SHEET NO. 22.5
CANCELS ORIGINAL SHEET NO. 22.5

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 utility system emergencies, forced outages, uncontrollable forces or compliance with prudent electric utility 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 utility system due to the operation of the Customer's generation or protective equipment as determined by OEU.
- d. Adverse electrical effects (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.

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.

(Continued on Sheet No. 22.6)

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

Effective: October 1, 2019

OCALA ELECTRIC UTILITY
OCALA, FLORIDA
(Continued from Sheet No. 22.5)

FIRST REVISED SHEET NO. 22.6
CANCELS ORIGINAL SHEET NO. 22.6

- 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, contractors (and any subcontractor or material supplier thereof), agents 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.

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

(Continued on Sheet No. 22.7)

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

Effective: October 1, 2019

OCALA ELECTRIC UTILITY
OCALA, FLORIDA
(Continued from Sheet No. 22.6)

FIRST REVISED SHEET NO. 22.7
CANCELS ORIGINAL SHEET NO. 22.7

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 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.

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 2.5 percent (%) of the aggregate customer peak demand on OEU's electric 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. 22.8)

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

Effective: October 1, 2019

OCALA ELECTRIC UTILITY
OCALA, FLORIDA
(Continued from Sheet No. 22.7)

FIRST REVISED SHEET NO. 22.8
CANCELS ORIGINAL SHEET NO. 22.8

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

OUS:

Customer:

By: Signed by:
Janice Mitchell
55198843858AAE1...

By: SRISHA RAO
(Print Name)

Title: CFO


(Signature)

Date: 11/25/2024

Date: 6/26/2024

City of Ocala Electric Utility Account Number:
504836-162824

Approved as to form and legality:

DocuSigned by:
William E. Sexton
3012CF0C4E806F20
William E. Sexton, Esq.
City Attorney

Renewal Personal Umbrella Policy Declarations

Your policy effective date is January 24, 2024



Total Premium for the Premium Period (Your bill will be mailed separately)

Excess Liability	\$1,175.00
Excess Uninsured Motorist	\$78.00
01/2007 Florida Hurricane Catastrophe Fund Emergency Assessment	\$0.00
2023A FIGA Assessment	\$13.00
Total	\$1,266.00

Your bill will be mailed separately. Before making a payment, please refer to your latest bill, which includes payment options and installment fee information. If you do not pay in full, you will be charged an installment fee(s). If you do not pay your bill by the due date shown on your billing statement, you may be charged a late fee.

Premium includes a charge for 3 automobiles

Policy Coverages and Limits of Liability

Coverages	Limits of Liability
Excess Liability	\$3,000,000 each occurrence
Excess Uninsured Motorist	\$1,000,000 each accident

Information as of November 30, 2023

Summary

Named Insured(s)
Puskur Or Srisha Rao
 Mailing address
1706 SE 33rd St
Ocala FL 34471-6783

Policy number
941 528 559

Your policy provided by
Allstate Insurance Company

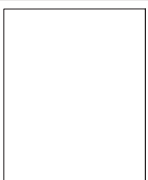
Policy period
 Begins on **January 24, 2024** at 12:01 A.M. standard time, with no fixed date of expiration

Premium period
 Beginning **January 24, 2024** through **January 24, 2025** at 12:01 A.M. standard time

Your Allstate agency is
The McDonald Agency
 11962 Cnty Rd101 305
 The Villages FL 32162-9337
 (352) 259-3825
 KevinMcDonald3@allstate.com

Some or all of the information on your Policy Declarations is used in the rating of your policy or it could affect your eligibility for certain coverages. Please notify us immediately if you believe that any information on your Policy Declarations is incorrect. We will make corrections once you have notified us, and any resulting rate adjustments, will be made only for the current policy period or for future policy periods. Please also notify us immediately if you believe any coverages are not listed or are inaccurately listed.





ENGINEER OF RECORD
 Grego Dillett
 1706 SE 3RD ST.
 OCALA, FL 34471, USA

SUSHIL PUSKUR
 1706 SE 3RD ST.
 OCALA, FL 34471, USA

REV	ENG	DESCRIPTION	DATE

PERMIT DEVELOPER	
DATE	05/11/2024
DESIGNER	ONG
REVIEWER	

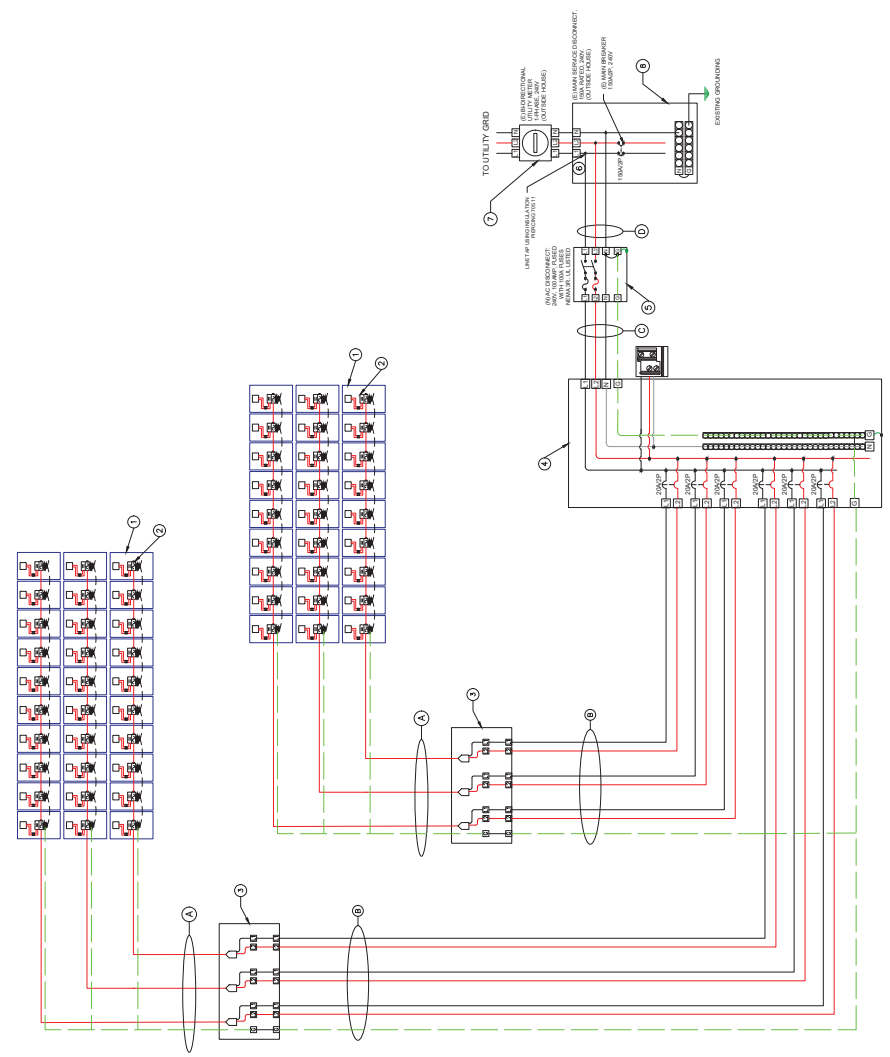
SHEET NAME	ELECTRICAL LINE DIAGRAM
SHEET NUMBER	E-01

NOTE:
 1. SUBJECT PV SYSTEMS HAS BEEN DESIGNED TO MEET THE REQUIREMENTS OF THE NEC 2020, NFPA 70 AND THOSE SET FORTH BY THE FLORIDA SOLAR ENERGY CENTER CERTIFICATION, INCLUDING MICRO INVERTER SYSTEMS. PROVIDE THE MANUFACTURER, MODEL NUMBER, INVERTER OUTPUT, MODULE MANUFACTURER AND MODEL NUMBER, INVERTER MANUFACTURER AND MODEL NUMBER AS APPLICABLE.
 2. PROVIDE TAP BOX IN COMPLIANCE WITH 312.8 IF PANEL GUTTER SPACE IS INADEQUATE.

SOLAR ARRAY (23,940 KW -DC STC)
 (57) JINKO SOLAR JKM420N-54HL-4-B(420W) SOLAR MODULES
 (3) BRANCHES OF 09 MODULES
 (3) BRANCHES OF 10 MODULES

EQUIPMENT SPECIFICATIONS		CONDUIT SCHEDULE	
TAG	EQUIPMENT	TAG	DESCRIPTION
1	MODULES	A	EMPHASE C CABLES (3) #12 AWG THWN-2, (1) #8 AWG THWN-2 (5)
2	INVERTER	B	(3) #10 AWG THWN-2 (L1,L1), (1) #10 AWG THWN-2 (L2), (1) #10 AWG THWN-2 (5)
3	JUNCTION BOX	C	(3) #10 AWG THWN-2 (L1,L1), (1) #10 AWG THWN-2 (L2), (1) #10 AWG THWN-2 (5)
4	LOAD CENTER 125A	D	(3) #2 AWG THWN-2 (L1,L2,N), (1) #8 AWG THWN-2 (5)
5	AC DISCONNECT		(3) #2 AWG THWN-2 (L1,L2,N)
6	PV INTERCONNECT		
7	UTILITY METER		
8	MAIN SERVICE DISCONNECT		

NOTE:
 CONDUIT RUN- EMT, IMC, PVC, RMC, FMC, LFMC, OR EQUIVALENT AS PER NEC.





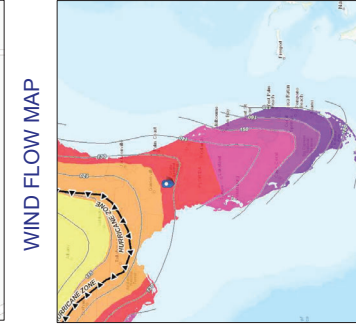
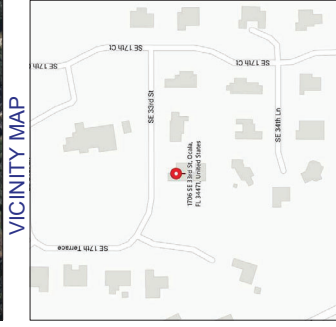
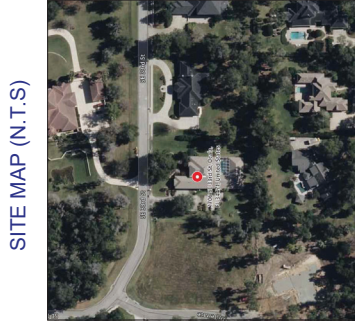
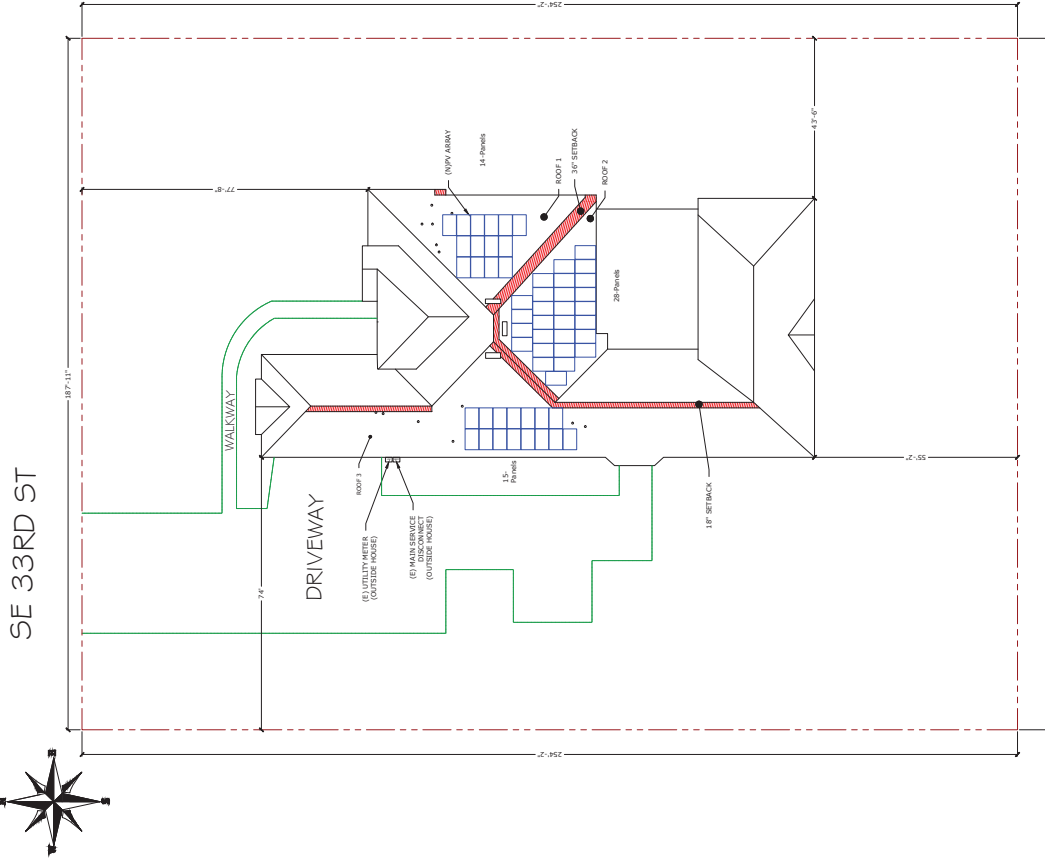
SUSHIL PUSKUR
1706 SE 33RD ST,
OCA LA, FL 34471, USA

REV	ENG	DESCRIPTION	DATE

PERMIT DEVELOPER	
DATE	05/11/2024
DESIGNER	ONG
REVIEWER	

SHEET NAME	SITE MAP & VICINITY MAP
SHEET NUMBER	A-00

SUSHIL PUSKUR
NEW GRID-INTERACTIVE PHOTOVOLTAIC SYSTEM
DC SYSTEM SIZE (23.940 KW)



SYSTEM DETAILS	
DESCRIPTION	NEW GRID-INTERACTIVE PHOTOVOLTAIC SYSTEM WITH NO BATTERY STORAGE
DC RATING OF SYSTEM	SYSTEM SIZE: 23.940 KW DC STC
AC RATING OF SYSTEM	18.525 KW
AC OUTPUT CURRENT	76.95 A
NO. OF MODULES	(67) JINKO SOLAR IKM40N-54HL-4-B(20W)
NO. OF INVERTERS	(67) ENPHASE IQ8M-72-2-US MICROINVERTERS
POINT OF CONNECTION	LINE SIDE TAP IN THE MSP
ARRAY STRINGING	(3) BRANCHES OF 09 MODULES (3) BRANCHES OF 10 MODULES

SITE DETAILS	
ASHRAE EXTREME LOW	-6°C
ASHRAE 2% HIGH	34°C
GROUND SNOW LOAD	4 PSF
WIND SPEED	130 MPH (ASCE 7-22)
RISK CATEGORY	II
WIND EXPOSURE CATEGORY	B

GOVERNING CODES	
FLORIDA RESIDENTIAL CODE, 8TH EDITION 2023 (FRC)	
FLORIDA BUILDING CODE, 8TH EDITION 2023 (FBC)	
FLORIDA FIRE PREVENTION CODE, 8TH EDITION 2022 (FFPC)	
NATIONAL ELECTRICAL CODE, NEC 2020 CODE BOOK, NFPA 70	

SHEET INDEX	
SHEET NO.	SHEET NAME
A-00	SITE MAP & VICINITY MAP
A-01	ROOF PLAN & MODULES
S-01	ARRAY LAYOUT
S-02	STRUCTURAL ATTACHMENT DETAIL
E-01	ELECTRICAL LINE DIAGRAM
E-02	WIRING CALCULATIONS
E-03	SYSTEM LABELING
DS-01	MODULE DATASHEET
DS-02	INVERTER DATASHEET
DS-03	RACKING DATASHEET
DS-04	ATTACHMENT DATASHEET



CONTACT: (813) 614-4880
4908 DENVER STREET, TAMPA
FLORIDA 33626, UNITED STATES



SUSHIL PUSKUR
1706 SE 33RD ST.
OCALA, FL 34471, USA

REV	ENG	DESCRIPTION	DATE

PERMIT DEVELOPER	
DATE	05/11/2024
DESIGNER	ONG
REVIEWER	

SHEET NAME	
INVERTER DATASHEET	
SHEET NUMBER	
DS-02	

IQ8M and IQ8A Microinverters

INPUT DATA (DC)		IQ8M-72-2-US		IQ8A-72-2-US	
Commonly used module pairings*	W	260 - 460	260 - 460	285 - 500	285 - 500
Module compatibility		54-cell / 108 half-cell, 60-cell / 120 half-cell, 66-cell / 132 half-cell and 72-cell / 144 half-cell			
MPP voltage range	V	30 - 45			
Operating range				18 - 58	32 - 45
Min. / Max. start voltage	V			22 / 58	
Max. input DC voltage	V			60	
Max. continuous input DC current	A			12	
Max. input DC short-circuit current	A			25	
Max. module I _{sc}	A			20	
Overvoltage class DC port				II	
DC port backfeed current	mA			0	
PV array configuration		1 x 1 Ungrounded array; No additional DC side protection required; AC side protection requires max. 20A per branch circuit			
OUTPUT DATA (AC)		IQ8M-72-2-US		IQ8A-72-2-US	
Peak output power	VA	330		366	
Max. continuous output power	VA	335		349	
Nominal (L-L) voltage / range†	V		240 / 211 - 264		
Max. continuous output current	A		1.35		1.45
Nominal frequency	Hz		60		
Extended frequency range	Hz		47 - 68		
AC short circuit fault current over 3 cycles	Amps			2	
Max. units per 20 A (L-L) branch circuit‡				11	
THD at 100% load	%			4.5	
Total harmonic distortion	%			4.5	
Overvoltage class AC port				III	
AC port backfeed current	mA			30	
Power factor setting				1.0	
Grid-tied power factor (adjustable)				0.85 leading - 0.85 lagging	
Peak efficiency	%		97.8		97.7
CEC weighted efficiency	%		97.5		97
Night-time power consumption	mW			60	

RESUME DATA

Ambient temperature range: -40°C to +60°C (-40°F to +140°F)
 Relative humidity range: 4% to 100% (condensing)
 DC Connector type: MCA
 Dimensions (H x W x D): 212 mm (8.3") x 175 mm (6.9") x 30.2 mm (1.2")
 Weight: 1.08 kg (2.38 lbs)
 Cooling: Natural convection - no fans
 Approved for wet locations: Yes
 Pollution degree: PD3
 Enclosure: Class II double-insulated, corrosion resistant polymeric enclosure
 Emission category / 1/f3 frequency rating: REBA, Type 6 / outdoor

COMPLIANCE

Certifications
 CA Rule 21 (UL 1741-SA), UL 62109-1, IEEE 1547-2018 (UL 1741-SB 3rd Ed.), FCC Part 15 Class B, ICES-0003 Class B, CAN / CSA-C22.2 NO. 1071-01
 This product is UL Listed as PV Rapid Shutdown Equipment and conforms with NEC 2014, NEC 2017, and NEC 2020 section 690.12 and C221-2018 Rule 04-28 Rapid Shutdown of PV Systems, for AC and DC conductors, when installed according to manufacturer's instructions.

(1) Rating PV modules with settings above the limit may result in additional clipping losses. See the compatibility calculator at <https://link.enphase.com/module-compatibility>. (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 microinverters per branch in your area.

IQ8M-72-2-US-0006-03-EN-US-2022-12-27

DATA SHEET



IQ8M and IQ8A Microinverters

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 microgrid-forming algorithm (MFG) which enables the microinverter to operate in grid-tied or off-grid modes. The IQ8M and IQ8A microinverters feature an advanced digital logic and has superior response times to changing loads and grid events, alleviating constraints on battery sizing for home energy systems.



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



Connect PV modules quickly and easily as PV Rapid Shutdown Equipment and included IO Battery 2-2 adapter cable with Plug-in play MCA Connectors.



IQ8 Series Microinverters are UL listed as PV Rapid Shutdown Equipment and conform with UL 1741-SB 3rd Ed. and IEEE 1547-2018 (UL 1741-SB 3rd Ed.) instructions.

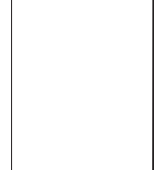
- Easy to install**
- Lightweight and compact with plug-in play connectors
 - Power Line Communication (PLC) between components
 - Faster installation with simple two-wire cabling

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

- Microgrid-forming**
- Complies with the latest advanced grid support**
 - Remote automatic updates for the latest grid requirements
 - Configurable to support a wide range of grid profiles
 - Meets CA Rules 21 (UL 1741-SA) and IEEE 1547-2018 (UL 1741-SB 3rd Ed.)

Note:
 IQ8 Microinverters cannot be mixed together with IQ7 Series, IQ8 Series, etc. in the same system.

IQ8M-72-2-US-0006-03-EN-US-2022-12-27



SUSHIL PUSKUR
1706 SE 3RD ST,
OCALA, FL 34471, USA

REV	ENG	DESCRIPTION	DATE

PERMIT DEVELOPER	DATE	DESIGNER	REVIEWER
	05/11/2024	ONG	

SHEET NAME
COMBINER BOX DATASHEET

SHEET NUMBER
DS-03

IQ Combiner 5/5C

MODEL NUMBER	DESCRIPTION
IQ Combiner 5 (X-IQ-AMI-240-5)	IQ Combiner 5 with IQ Gateway printed circuit board for integrated revenue-grade PV production metering (ANSI C12.20.03), consumption monitoring (2.5%), and IQ Battery monitoring (2.5%). Includes a silver solar shield to deflect heat.
IQ Combiner 5C (X-IQ-AMI-240-5C)	IQ Combiner 5C with IQ Gateway printed circuit board for integrated revenue-grade PV production metering (ANSI C12.20.03), consumption monitoring (2.5%), and IQ Battery monitoring (2.5%). Includes a silver solar shield to deflect heat.

WHAT'S IN THE BOX

IQ Gateway printed circuit board	IQ Gateway is the platform for total energy management for comprehensive, remote maintenance, and management of the Enphase Energy System
Bussbar	80 A bussbar with support for 1 x IQ Gateway breaker and 4 x 20 A breaker for installing IQ Series Microinverters and IQ Battery SP
IQ Gateway breaker	Pre-wired revenue-grade solid-core CT, accurate up to 0.5%
Production CT	Two consumption metering clamp CTs, shipped with the box, accurate up to 0.2%
Consumption CT	One battery metering clamp CT, shipped with the box, accurate up to 0.2%
IQ Battery CT	Control board for wired communication with IQ System Controller 3/3G and the IQ Battery SP
CTRL board	4G-based LTE-M cellular modem (CELLMODEM-MI-06-SP-05) with a 5-year T-Mobile data plan
Enphase Mobile Connect (only with IQ Combiner 5C)	Space control headers for the COMMS-KIT-02 board
Accessories kit	

ACCESSORIES AND REPLACEMENT PARTS (NOT INCLUDED, ORDER SEPARATELY)

CELLMODEM-MI-06-SP-05	4G-based LTE-M cellular modem with a 5-year T-Mobile data plan
CELLMODEM-MI-06-AT-05	4G-based LTE-M cellular modem with a 5-year AT&T data plan
Circuit breakers (off-the-shelf)	Supports Eaton BR3XX, Siemens Q2XX, and GE/ABB THQL21XX Series circuit breakers (XX represents 10, 15, 20, 30, 40, 50, or 60). Also supports Eaton BR220B, BR220B, and BR240B circuit breakers compatible with the hold-down kit.
Circuit breakers (provided by Enphase)	BRK-0A-2-240V, BRK-15A-2-240V, BRK-20A-2P-240V, BRK-15A-2P-240V-B, and BRK-20A-2P-240V-B (more details in the "Accessories" section)
XA-SOLARSHIELD-ES	Replacement solar shield for IQ Combiner 5/5C
XA-ENV2-PCBA-5	IQ Gateway replacement printed circuit board (PCB) for IQ Combiner 5/5C
X-IQ-NA-HD-125A	Hold-down kit compatible with Eaton BR-8 Series circuit breakers (with screw)
XA-COMMS2-PCBA-5	Replacement COMMS-KIT-02 printed circuit board (PCB) for IQ Combiner 5/5C

ELECTRICAL SPECIFICATIONS

Rating	80 A
System voltage and frequency	120/240 VAC, 60 Hz
Bussbar rating	125 A
Fault current rating	10 kAIC
Maximum continuous current rating (input from PV/storage)	64 A
Branch circuits (total and/or storage)	Up to four 2-pole Eaton BR, Siemens Q, or GE/ABB THQL Series distributed generation (DG) breakers only (not included)
Maximum total branch circuit breaker rating (input)	80 A of distributed generation/95 A with IQ Gateway breaker included
IQ Gateway breaker	10 A or 15 A rating GE/Siemens/Eaton included
Production metering CT	200 A solid core pre-installed and wired to IQ Gateway
Consumption monitoring CT (CT-200-CLAMP)	A pair of 200 A clamp-style current transformers is included with the box
IQ Battery metering CT	200 A clamp-style current transformer for IQ Battery metering, included with the box

1. A plug-and-play industrial-grade cell modem for systems of up to 80 microinverters. Available in the United States, Canada, Mexico, Puerto Rico, and the US Virgin Islands, where there is adequate cellular service in the installation area.

IOC-5-5C-09H-00007-3.0-EN-US-2024-03-01

DATA SHEET

X-IQ-AMI-240-5
X-IQ-AMI-240-5C

- Smart**
- Includes IQ Gateway for communication and control
 - Includes Enphase Mobile Connect (CELLMODEM-MI-06-SP-05), only with IQ Combiner 5C
 - Supports flexible networking: Wi-Fi, Ethernet, or cellular
 - Provides production metering (revenue grade) and consumption monitoring

- Easy to install**
- Mounts to one stud with centered brackets
 - Supports bottom, back, and side conduit entries
 - Supports up to four 2-pole branch circuits for 240 MIC plug-in breakers (not included)
 - 80 A total PV branch circuits
 - Bluetooth-based Wi-Fi provisioning for easy Wi-Fi setup
- Reliable**
- Durable NRTL-certified NEMA type 3R enclosure
 - 5-year limited warranty
 - 2-year labor reimbursement program (coverage included for both the IQ Combiner SKUs)
 - UL1741 Listed



The IQ Combiner 5/5C consolidates interconnection equipment into a single enclosure and provides a complete grid-agile system. The IQ Combiner 5/5C is a pre-wired solution for residential applications. IQ Combiner 5/5C uses wired control communication and is compatible with IQ System Controller, 3/3G and IQ Battery SP. The IQ Combiner 5/5C, IQ Series Microinverters, IQ System Controller, 3/3G, and IQ Battery SP provide a complete grid-agile Enphase Energy System.

IQ Series Microinverters
High-power, high-voltage, grid-tie-ready IQ Series Microinverters (IQ-MI) and IQ Series simply connect to the installation process.

IQ System Controller 3/3G
High-voltage, high-current, grid-tie-ready IQ System Controller (3/3G) for monitoring and automatically detecting grid failures and seamlessly transitioning the home energy system from grid power to backup power.

IQ Load Controller
High-voltage, high-current, grid-tie-ready IQ Load Controller (3/3G) for monitoring and automatically detecting grid failures and seamlessly transitioning the home energy system from grid power to backup power.

IQ Battery SP
Fully integrated AC battery system, includes six field-replaceable IQBD-BAT Microinverters.

UL LISTED


UL US LISTED

NOM

5-year limited warranty


*For country-specific warranty information, see the <https://enphase.com/installers/resources/warranty> page.

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4000 W. GREENHURST AVENUE
FLORIDA 33613, UNITED STATES

ENGINEER OF RECORD



SUSHIL PUSKUR

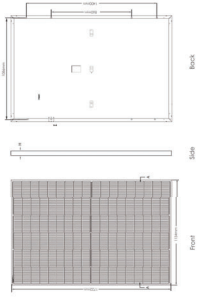
1706 SE 3RD ST.
OCALA, FL 34471, USA

REV	ENGR	DATE

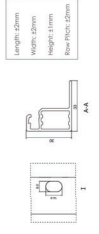
PERMIT DEVELOPER

DATE: 05/11/2024
DESIGNER: ONG
REVIEWER:
SHEET NAME:
MODULE DATASHEET
SHEET NUMBER: **DS-01**

Engineering Drawings

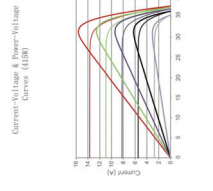


Front Side Back

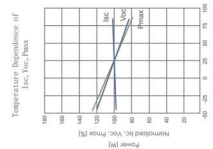


Length: 400mm
Width: 420mm
Height: 40mm
Rear Pin: 2mm

Electrical Performance & Temperature Dependence



Current-Voltage & Power-Voltage Graphs (I-V, P-V)



Temperature Dependence of I-V, P-V Graph

Mechanical Characteristics

Cell Type: N-Type Mono-crystalline
No. of Cells: 108 (6x18)
Dimensions: 1722x1134x30mm (67.79x44.65x1.18 inch)
Weight: 22 kg (48.50 lbs)
Front Glass: 3.2mm-Anti-Reflection Coating, High Transmission, Low Iron, Tempered Glass
Frame: Anodized Aluminium Alloy
Junction Box: Type 1, IP65
Output Cables: (+) - 40mm, (-) - 20mm or Customized Length

Packaging Configuration

[Two pallets = One stack]

36pcs/pallet, 72pcs/stack, 816pcs/40HQ Container

SPECIFICATIONS

Module Type	JMK400N-54HL4-B	JMK420N-54HL4-B	JMK415N-54HL4-B	JMK420N-54HL4-B	
STC	NOCT	STC	NOCT	STC	NOCT
400Wp	301Wp	405Wp	309Wp	419Wp	312Wp
31.28V	28.88V	31.47V	29.28V	31.65V	29.57V
12.79A	10.30A	12.87A	10.36A	12.85A	10.42A
37.98V	35.50V	37.58V	35.69V	37.77V	35.65V
13.55A	10.94A	13.62A	11.00A	13.68A	11.04A
20.46%	20.74%	21.00%	21.25%	21.51%	21.51%
Operating Temperature(°C)					
-40°C~+85°C					
Maximum system voltage					
1000VDC (IEC)					
Maximum series fuse rating					
25A					
Power tolerance					
0~+3%					
Temperature coefficient of Pmax					
-0.30%/°C					
Temperature coefficient of Voc					
-0.25%/°C					
Temperature coefficient of Isc					
0.046%/°C					
Nominal operating cell temperature (NOCT)					
45±2°C					

STC: Irradiance 1000W/m² Cell Temperature 25°C AM=1.5
 NOCT: Irradiance 800W/m² Ambient Temperature 20°C AM=1.5 Wind Speed 1m/s

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Building Your Trust in Solar



Key Features

- SMBB Technology**
Better light trapping and current collection to improve module power output and reliability.
- PID Resistance**
Excellent PID performance guarantees via optimized mass-production process and materials control.
- Durability Against Extreme Environmental Conditions**
High salt mist and ammonia resistance.

Hot 2.0 Technology
The N-type module with Hot 2.0 technology has better reliability and lower LID/LLET.

Enhanced Mechanical Load
Certified to withstand wind load (2400 Pascal) and snow load (600 Pascal).

Linear Performance Warranty

25 Year Product Warranty
30 Year Linear Power Warranty
0.40% Annual Degradation Over 30 years



Guaranteed Power Performance

Key Certifications: CE, TÜV, CQC, GEM, ISO 9001, ISO 14001, ISO 45001, PV CYCLE, POSITIVE QUALITY

www.jinkosolar.com

Tiger Neo N-type 54HL4-B 400-420 Watt ALL-BLACK MODULE

N-Type

Positive power tolerance of 0~+3%

IEC 61215(2016), IEC 61730(2016)
ISO 9001:2015; Quality Management System
ISO 14001:2015; Environment Management System
ISO 45001:2018 Occupational health and safety management systems

Certificate Of Completion

Envelope Id: B6F672D3-A322-4311-906F-F257B78A9224

Status: Completed

Subject: FOR SIGNATURE: Net-Metering Agreement - Srisha Rao (ELE/250159)

Source Envelope:

Document Pages: 25

Signatures: 5

Certificate Pages: 5

Initials: 0

AutoNav: Enabled

Envelopeld Stamping: Enabled

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

Envelope Originator:

April Adolf

110 SE Watula Avenue

City Hall, Third Floor

Ocala, FL 34471

aadolof@ocalafl.gov

IP Address: 216.255.240.104

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Status: Original

11/15/2024 7:03:02 PM

Holder: April Adolf

aadolof@ocalafl.gov

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Pool: StateLocal

Storage Appliance Status: Connected

Pool: City of Ocala - Procurement & Contracting

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Signer Events

William E. Sexton

wsexton@ocalafl.org

City Attorney

City of Ocala

Security Level: Email, Account Authentication (None)

Signature

DocuSigned by:

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Signature Adoption: Pre-selected Style

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Timestamp

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Not Offered via DocuSign

Janice Mitchell

jmitchell@Ocalafl.org

CFO

City of Ocala

Security Level: Email, Account Authentication (None)

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Signature Adoption: Pre-selected Style

Using IP Address: 216.255.240.104

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Signed: 11/25/2024 10:07:19 AM

Electronic Record and Signature Disclosure:

Accepted: 11/25/2024 10:06:24 AM

ID: 66aba1b4-4a66-4bbc-853b-2985f4b003a9

Chris Gowder

chris.gowder@fmpa.com

VP of IT/OT and System Ops

Security Level: Email, Account Authentication (None)

DocuSigned by:

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Signature Adoption: Uploaded Signature Image

Using IP Address: 38.77.131.2

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Viewed: 11/25/2024 10:14:18 AM

Signed: 11/25/2024 10:14:30 AM

Electronic Record and Signature Disclosure:

Accepted: 11/25/2024 10:14:18 AM

ID: 818e94d4-e512-43bd-90b4-9ab301b904e8

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
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Carbon Copy Events	Status	Timestamp
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Witness Events	Signature	Timestamp
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Notary Events	Signature	Timestamp
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Envelope Summary Events	Status	Timestamps
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Envelope Sent	Hashed/Encrypted	11/15/2024 7:12:23 PM
Certified Delivered	Security Checked	11/25/2024 10:14:18 AM
Signing Complete	Security Checked	11/25/2024 10:14:30 AM
Completed	Security Checked	11/25/2024 10:14:30 AM

Payment Events	Status	Timestamps
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