

230405

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: Jennifer Lee Masters

Mailing Address: 5460 Southeast 24th Street

City: Ocala State: FL Zip Code: 34480

Phone Number: (804) 397-7945 Alternate Phone Number: \_\_\_\_\_

Email Address: jennymasters@live.com Fax Number: \_\_\_\_\_

Ocala Electric Utility Customer Account Number: 509351-188609

**2. RGS Facility Information**

Facility Location: 5460 Southeast 24th Street Ocala FL 34480

Ocala Electric Utility Customer Account Number: 509351-188609

RGS Manufacturer: Hanwha Q.Cells

Manufacturer's Address: 400 Spectrum Center Dr. Suite 1400  
Irvine, CA 92618

Reference or Model Number: Hanwha Q. Peak Duo BLK ML-G10+ 400W

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: 5.1 ("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 Photovoltaic

Anticipated In- Service Date: 02/11/2023

### 4. Application Fee

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

### 5. Interconnection Study Fee

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

### 6. Required Documentation

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

A. Documentation demonstrating that the installation complies with (or most current version at time of inspection approval):

1. IEEE 1547 (2018) Standard for Interconnecting Distributed Resources with Electric Power Systems.
2. IEEE 1547.1 (2005) Standard Conformance Test Procedures for Equipment Interconnecting Distributed Resources with Electric Power Systems.
3. UL 1741 (2010) Inverters, Converters, Controllers and Interconnection System Equipment for Use with Distributed Energy Resources.

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

C. Proof of insurance in the amount of:  
Tier 1 - \$100,000.00  
Tier 2 - \$1,000,000.00  
Tier 3 - \$2,000,000.00

**Customer**

By: Jennifer Lee Masters Date: 1-16-23  
(Print Name)

Jennifer Lee Masters  
(Signature)

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

This Agreement is made and entered into this 11th day of January, 2023, by and between Jennifer Lee Masters, (hereinafter called "Customer"), located at 5460 Southeast 24th Street in Ocala, Florida, and the City of Ocala doing business as Ocala Electric Utility (hereinafter called OEU), a body politic. Customer and OEU shall collectively be called the "Parties". The physical location/premise where the interconnection is taking place: 5460 Southeast 24th Street Ocala FL 34480.

**WITNESSETH**

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

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

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

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

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

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

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

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Electric Utility Director

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

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Electric Utility Director

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

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

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

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

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

Effective: October 1, 2019

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(Continued from Sheet No. 21.2)

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

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

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

15. The Customer is responsible for the protection of its generation equipment, inverters, protection devices, and other system components from damage from the normal and abnormal operations that occur on OEU system in delivering and restoring system power. Customer agrees that any damage to any of its property, including, without limitation, all components and related accessories of its RGS system, due to the normal or abnormal operation of OEU system, is at Customer's sole risk and expense. Customer is also responsible for ensuring that the customer-owned renewable generation equipment is inspected, maintained, and tested regularly in accordance with the manufacturer's instructions to ensure that it is operating correctly and safely.

16. The Customer must install, at their expense, a manual disconnect switch of the visible load break type to provide a separation point between the AC power output of the customer-owned renewable generation system and any Customer wiring connected to OEU's system, such that back feed from the customer-owned renewable generation system to OEU's system cannot occur when the switch is in the open position. The manual disconnect switch shall be mounted separate from the meter socket on an exterior surface adjacent to the meter. The switch shall be readily accessible to OEU and capable of being locked in the open position with an OEU padlock. When locked and tagged in the open position by OEU, this switch will be under the control of OEU.

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Electric Utility Director

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

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

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

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

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

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

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

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

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

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

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

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

Effective: October 1, 2019

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

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

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

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

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

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

Effective: October 1, 2019

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

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

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

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

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

Effective: October 1, 2019

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

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

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

Effective: October 1, 2019

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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:**

**Customer:**

By: DocuSigned by:  
Janice Mitchell  
55198B43858A4E1...

By: Jennifer Lee Masters  
(Print Name)

Title: CFO

Jennifer Lee Masters  
(Signature)

Date: 4/24/2023

Date: 1-16-23

City of Ocala Electric Utility Account Number:

509351-188609

Approved as to form and legality:

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

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

Effective: October 1, 2019

OCALA ELECTRIC UTILITY  
OCALA, FLORIDA

FIRST REVISED SHEET NO. 20.0  
CANCELS ORIGINAL SHEET NO. 20.0

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

This Tri-Party Net-Metering Power Purchase Agreement (this "Agreement") is entered into this 11th day of January, 2023, by and between the Florida Municipal Power Agency, a governmental joint action agency created and existing under the laws of the State of Florida (hereinafter "FMPA"), the City of Ocala doing business as Ocala Electric Utility, a body politic (hereinafter "OEU"), and Jennifer Lee Masters, a retail electric customer of OEU (hereinafter "Customer").

#### **Section 1. Recitals**

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

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

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

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

#### **Section 2. Interconnection**

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

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

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

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CANCELS ORIGINAL SHEET NO. 20.1

### **Section 3. Metering**

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

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

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

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

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

(Continued on Sheet No. 20.2)

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

Effective: October 1, 2019

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

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

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

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

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

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

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

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

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

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

(Continued on Sheet No. 20.3)

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

Effective: October 1, 2019

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

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

### **Section 7. Miscellaneous Provisions**

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

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

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

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

(Continued on Sheet No. 20.4)

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

Effective: October 1, 2019

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

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

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

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

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

(Continued on Sheet No. 20.5)

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

Effective: October 1, 2019

OCALA ELECTRIC UTILITY  
OCALA, FLORIDA  
(Continued from Sheet No. 20.4)

FIRST REVISED SHEET NO. 20.5  
CANCELS ORIGINAL SHEET NO. 20.5

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

**City of Ocala Electric Utility**

By: DocuSigned by:  
Janice Mitchell  
067F0E8B340474  
Title: CFO  
Date: 4/24/2023

**Florida Municipal Power Agency**

By: DocuSigned by:  
*[Signature]*  
067F0E8B340474  
Title: VP of IT/OT and System Ops  
Date: 4/24/2023

**Customer**

By: Jennifer Lee Masters Date: 1-16-23  
(Print Name)  
*Jennifer Lee Masters*  
(Signature)

Customer's City of Ocala Electric Utility Account Number: 5 0935 1- 1 88 6 0 9

Approved as to form and legality:

DocuSigned by:  
William E. Sexton  
067F0E8B340474  
William E. Sexton  
City Attorney

(Continued on Sheet No. 20.6)

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

Effective: October 1, 2019

OCALA ELECTRIC UTILITY  
OCALA, FLORIDA  
(Continued from Sheet No. 20.5)

FIRST REVISED SHEET NO. 20.6  
CANCELS ORIGINAL SHEET NO. 20.6

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

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

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

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

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

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

**II. Payment for Unused Excess Energy Credits**

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

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

Effective: October 1, 2019



# Tower Hill Insurance Exchange

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

## HOMEOWNERS DECLARATIONS

**POLICY NUMBER**  
**W014702379**

**THIS IS NOT A BILL**

New  
Issued On:  
10/15/2022

Payment notice will be sent separately to: Mortgagee

**Insured**  
Jeffery T Masters  
Jennifer L Masters  
14415 YANKEETOWN RD  
ASHLAND, VA 23005-7252

**AGENCY** **FLT369**  
Emery A Abshier Insurance Agency Inc  
6041 SE ABSHIER BLVD  
BELLEVIEW, FL 34420

PHONE NUMBER: (352) 245-2423

**POLICY PERIOD:** 02/20/2023 to 02/20/2024. Each period begins and ends at 12:01 AM standard time at the insured location.

**INSURED LOCATION:** 5460 SE 24TH ST  
OCALA, FL 34480-1102

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

SECTION I - PROPERTY COVERAGE	LIMIT	SECTION II - LIABILITY COVERAGE	LIMIT
COVERAGE A - Dwelling	\$255,000	COVERAGE E - Personal Liability Each Occurrence	\$300,000
COVERAGE B - Other Structures	\$5,100		
COVERAGE C - Personal Property	\$127,500	COVERAGE F - Medical Payments to Others Each Person	\$5,000
COVERAGE D - Loss of Use	\$51,000		

**BREAKDOWN OF PREMIUM:**

<u>Charges</u>	<u>Limit</u>	<u>Premium</u>
Section I and II Premium		\$529.00
Age of Dwelling Surcharge		Incl
Catastrophic Ground Cover Collapse Coverage		Incl
Emerald Coverage		\$324.00
Credit Card, Forgery and Counterfeit Money	\$10,000	Incl
Damage to Property of Others	\$1,000	Incl
Earth Movement Coverage for Personal Property		Incl
Fire Department Service Charge	\$1,000	Incl
Lock Replacement Coverage	\$500	Incl
Loss of Use Due to Power Shortage		Incl
Personal Injury Coverage		Incl
Personal Property Replacement Cost Without Holdback		Incl
Refrigerated Property Coverage	\$500	Incl
Special Personal Property		Incl
Water Damage for Contents Away from Premises		Incl
Watercraft Liability - 50hp		Incl
Special Limits of Liability		
Money	\$1,000	Incl
Securities	\$5,000	Incl
Watercraft	\$5,000	Incl
Trailers Not Used with Watercraft	\$5,000	Incl
Jewelry & Furs	\$5,000 (Theft) \$2,500 (Misplace)	Incl
Firearms	\$5,000 (Theft) \$2,500 (Misplace)	Incl
Silverware	\$5,000 (Theft) \$2,500 (Misplace)	Incl
Business Property on Premises	\$10,000	Incl
Business Property off Premises	\$1,000	Incl
Limited Fungi, Wet or Dry Rot, or Bacteria Coverage	\$10,000/\$10,000	Incl
Limited Screened Enclosure and Carport Coverage (Total Amount)	\$10,000	\$18.00
Loss Assessment Coverage	\$1,000	Incl
Loss of Use - Increased Limit		Incl
Ordinance or Law Coverage	25%	\$94.00
Water Back-Up and Sump Discharge or Overflow	\$5,000	Incl

00901200000 W014702379 160500 QDEC D

**POLICY NUMBER  
W014702379**

Emergency Management Preparedness and Assistance Trust Fund (EMPAT) Fee	\$2.00
Florida Insurance Guaranty Association (FIGA) Assessment Fee 07-2022	\$12.55
Florida Insurance Guaranty Association (FIGA) Assessment Fee 2022	\$6.76
Managing General Agency (MGA) Fee	\$25.00
Surplus Contribution	\$96.50

<b>Credits</b>	<b>Premium</b>
Age of Roof Credit	Incl
All Other Perils Deductible Credit	Incl
Hurricane Deductible Credit	Incl
Loss Free Credit	Incl
Residential Windstorm Loss Mitigation Devices Credit	Incl
Sinkhole Exclusion	Incl

**Total Policy Premium: \$1,107.81**

**DEDUCTIBLE (Section I Only):**  
**The Calendar Year Hurricane Deductible is \$5,100 (2% of Coverage A).**  
**The All Other Perils Deductible is \$1,000.**

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

**Mortgagee Information:**  
 CC: PROVIDENT FUNDING ASSOCIATES, L.P.  
 ITS SUCCESSORS AND/OR ASSIGNS  
 PO BOX 5914  
 SANTA ROSA, CA 95402-5914  
 Loan Id: 9125032461

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

**BASIC RATING INFORMATION:**

<b>PROGRAM</b>	<b>FORM CODE</b>	<b>TERRITORY</b>	<b>COUNTY</b>	<b>CONSTRUCTION YEAR</b>	<b>CONSTRUCTION TYPE</b>
TEFLHO	HO-3	522	MARION	1988	Masonry
<b>FIRE PROTECTION CLASS</b>	<b>ROOF TYPE</b>		<b>ROOF MATERIAL</b>		<b>ROOF YEAR</b>
4	Gable		Standard Shingle		2014
<b>BUILDING CODE (BCEG) GRADE</b>	<b>WIND PROTECTIVE DEVICE</b>		<b>PROTECTIVE DEVICE</b>		
Does Not Apply	None		None		

<b>PREMIUM SUMMARY:</b>	Hurricane Premium:	\$288.00
	Non-hurricane Premium:	\$819.81

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

NONE



## IQ8 and IQ8+ 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 application-specific integrated circuit (ASIC) which enables the microinverter to operate in grid-tied or off-grid modes. This chip is built in advanced 55nm technology with high speed digital logic and has super-fast response times to changing loads and grid events, alleviating constraints on battery sizing for home energy systems.

### Easy to install

- Lightweight and compact with plug-n-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 Rule 21 (UL 1741-SA) requirements



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



IQ8 Series Microinverters redefine reliability standards with more than one million cumulative hours of power-on testing, enabling an industry-leading limited 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-n-play MC4 connectors.




IQ8 Series Microinverters are UL Listed as PV Rapid Shut Down Equipment and conform with various regulations, when installed according to manufacturer's instructions.

# IQ8 and IQ8+ Microinverters

INPUT DATA (DC)		IQ8-60-2-US	IQ8PLUS-72-2-US
Commonly used module pairings <sup>1</sup>	W	235 – 350	235 – 440
Module compatibility		60-cell/120 half-cell	60-cell/120 half-cell and 72-cell/144 half-cell
MPPT voltage range	V	27 – 37	29 – 45
Operating range	V	25 – 48	25 – 58
Min/max start voltage	V	30 / 48	30 / 58
Max input DC voltage	V	50	60
Max DC current <sup>2</sup> [module Isc]	A		15
Overvoltage class DC port			II
DC port backfeed current	mA		0
PV array configuration		1x1 Ungrounded array; No additional DC side protection required; AC side protection requires max 20A per branch circuit	
OUTPUT DATA (AC)		IQ8-60-2-US	IQ8PLUS-72-2-US
Peak output power	VA	245	300
Max continuous output power	VA	240	290
Nominal (L-L) voltage/range <sup>3</sup>	V		240 / 211 – 264
Max continuous output current	A	1.0	1.21
Nominal frequency	Hz		60
Extended frequency range	Hz		50 – 68
Max units per 20 A (L-L) branch circuit <sup>4</sup>		16	13
Total harmonic distortion			<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	%	97.5	97.6
CEC weighted efficiency	%	97	97
Night-time power consumption	mW		60
MECHANICAL DATA			
Ambient temperature range		-40°C to +60°C (-40°F to +140°F)	
Relative humidity range		4% to 100% (condensing)	
DC Connector type		MC4	
Dimensions (HxWxD)		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	
Acoustic noise at 1 m		<60 dBA	
Pollution degree		PD3	
Enclosure		Class II double-insulated, corrosion resistant polymeric enclosure	
Environ. category / UV exposure rating		NEMA Type 6 / outdoor	
COMPLIANCE			
Certifications		CA Rule 21 (UL 1741-SA), UL 62109-1, UL1741/IEE1547, FCC Part 15 Class B, ICES-0003 Class B, CAN/CSA-C22.2 NO. 107.1-01	
		This product is UL Listed as PV Rapid Shut Down Equipment and conforms with NEC 2014, NEC 2017, and NEC 2020 section 690.12 and C22.1-2018 Rule 64-218 Rapid Shutdown of PV Systems, for AC and DC conductors, when installed according to manufacturer's instructions.	

(1) No enforced DC/AC ratio. See the compatibility calculator at <https://link.enphase.com/module-compatibility> (2) Maximum continuous input DC current is 10.6A (3) Nominal voltage range can be extended beyond nominal if required by the utility. (4) Limits may vary. Refer to local requirements to define the number of microinverters per branch in your area.



**ATLANTIC KEY ENERGY LLC**  
7005 STAPPOINT CT  
PARK, FL 32792  
+1 (407) 9864073

REVISIONS	DATE	REV

Signature with Seal

**PROJECT NAME & ADDRESS**

**DATE:** 01/19/2022

**SHEET NAME:**  
**EQUIPMENT SPECIFICATION**

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

**SHEET NUMBER:**  
**PV-5**

**MECHANICAL SPECIFICATION**

**Model:** ML-G10+ (1000mm x 1660mm) (39.4" x 54.3")

**Weight:** 46.5kg (103lbs) (30kg)

**Frame Color:** Anodized Aluminum (RAL 9005) (Silver Grey) with anodized fasteners

**Track Color:** Composite (RAL 9005) (Silver Grey)

**Panel:** 6 x 27 mono-crystalline PERC 4411UM (1660mm x 991mm) (53.9" x 32.3")

**Panel Size:** 200.0mm x 100.0mm x 0.59mm (7.87" x 3.94" x 0.023")

**Panel Area:** 0.2000m<sup>2</sup> (0.2378ft<sup>2</sup>)


**Cell:** Mono-crystalline PERC (1660mm x 991mm) (53.9" x 32.3")

**Dimensions:** 1660mm x 991mm (53.9" x 32.3")

**ELECTRICAL CHARACTERISTICS**

POWER CLASS	360	390	395	400	405
Module Power (P <sub>max</sub> )	360	390	395	400	405
Open Circuit Voltage (V <sub>oc</sub> )	38.5	41.0	41.5	42.0	42.5
Short Circuit Current (I <sub>sc</sub> )	11.07	11.14	11.17	11.17	11.17
Maximum Power Point Voltage (V <sub>mp</sub> )	31.68	33.07	33.33	33.53	33.74
Maximum Power Point Current (I <sub>mp</sub> )	12.32	12.41	12.45	12.47	12.49
Operating Voltage (V <sub>o</sub> )	30.5	31.8	32.0	32.2	32.4
Operating Current (I <sub>o</sub> )	12.32	12.41	12.45	12.47	12.49
Operating Power (P <sub>o</sub> )	360	390	395	400	405
Temperature Coefficient (P <sub>max</sub> )	-0.45	-0.45	-0.45	-0.45	-0.45
Temperature Coefficient (V <sub>oc</sub> )	-2.1	-2.1	-2.1	-2.1	-2.1
Temperature Coefficient (I <sub>sc</sub> )	0.06	0.06	0.06	0.06	0.06

**PERFORMANCE AT LOW IRRADIANCE**



**TEMPERATURE COEFFICIENTS**

Parameter	Value
Temperature Coefficient of P <sub>max</sub>	-0.45%
Temperature Coefficient of V <sub>oc</sub>	-2.10%
Temperature Coefficient of I <sub>sc</sub>	0.06%

**PROPERTIES FOR SYSTEM DESIGN**

Parameter	Value
Module Weight	46.5kg (103lb)
Module Dimensions (L x W x H)	1660mm x 991mm x 59mm
Module Area	0.2000m <sup>2</sup> (0.2378ft <sup>2</sup> )
Module Efficiency	20.9%
Module Power	395W
Module Voltage	41.5V
Module Current	12.45A
Module Power Factor	0.98
Module Impedance	0.0012Ω

**PACKAGING INFORMATION**

Parameter	Value
Module Dimensions (L x W x H)	1660mm x 991mm x 59mm
Module Weight	46.5kg (103lb)
Module Area	0.2000m <sup>2</sup> (0.2378ft <sup>2</sup> )
Module Efficiency	20.9%
Module Power	395W
Module Voltage	41.5V
Module Current	12.45A
Module Power Factor	0.98
Module Impedance	0.0012Ω

**QUALIFICATIONS AND CERTIFICATES**

ISO 9001:2015, ISO 14001:2015, CE, UL, IEC, TUV, VDE, TÜV SÜD, TÜV Rheinland, IEC 61215, IEC 61730, IEC 61646, IEC 61853, IEC 61854, IEC 61855, IEC 61856, IEC 61857, IEC 61858, IEC 61859, IEC 61860, IEC 61861, IEC 61862, IEC 61863, IEC 61864, IEC 61865, IEC 61866, IEC 61867, IEC 61868, IEC 61869, IEC 61870, IEC 61871, IEC 61872, IEC 61873, IEC 61874, IEC 61875, IEC 61876, IEC 61877, IEC 61878, IEC 61879, IEC 61880, IEC 61881, IEC 61882, IEC 61883, IEC 61884, IEC 61885, IEC 61886, IEC 61887, IEC 61888, IEC 61889, IEC 61890, IEC 61891, IEC 61892, IEC 61893, IEC 61894, IEC 61895, IEC 61896, IEC 61897, IEC 61898, IEC 61899, IEC 61900, IEC 61901, IEC 61902, IEC 61903, IEC 61904, IEC 61905, IEC 61906, IEC 61907, IEC 61908, IEC 61909, IEC 61910, IEC 61911, IEC 61912, IEC 61913, IEC 61914, IEC 61915, IEC 61916, IEC 61917, IEC 61918, IEC 61919, IEC 61920, IEC 61921, IEC 61922, IEC 61923, IEC 61924, IEC 61925, IEC 61926, IEC 61927, IEC 61928, IEC 61929, IEC 61930, IEC 61931, IEC 61932, IEC 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Data Sheet  
Enphase Microinverters  
Region: APAC

## Enphase IQ 7, IQ 7+, and IQ 7X Microinverters

The high-powered smart grid-ready **Enphase IQ Series Micros™** achieve the highest system efficiency.

Part of the Enphase IQ System, the IQ 7, IQ 7+, and IQ 7X Micro integrate perfectly with the Enphase Envoy-S™, and the Enphase Enlighten™ monitoring and analysis software.

The IQ Series Micros extend the reliability standards set forth by previous generations and undergo over a million hours of power-on testing, enabling Enphase to provide an industry-leading warranty.



### Easy to Install

- Lightweight and simple
- Faster installation with improved, lighter two-wire cabling

### Productive and Reliable

- Optimized for high powered 60-cell, 72-cell\* and 96-cell\* modules
- More than a million hours of testing
- Class II double-insulated enclosure

### Smart Grid Ready

- Complies with advanced grid support, voltage and frequency ride-through requirements
- Remotely updates to respond to changing grid requirements
- Configurable for varying grid profiles

\* The IQ 7+ Micro is required to support 72-cell modules, and the IQ 7X is required to support 96-cell modules.

## Enphase IQ 7, IQ 7+, and IQ 7X Microinverters

<b>INPUT DATA (DC)</b>	<b>IQ7-60-2-INT</b>	<b>IQ7PLUS-72-2-INT</b>	<b>IQ7X-96-2-INT</b>
Commonly used module pairings	235 W - 350 W + 1	235 W - 440 W + 1,2	320 W - 460 W + 1,2
Module compatibility	60-cell PV modules only	60-cell & 72-cell PV modules	96-cell PV modules only
Maximum input DC voltage	48 V	60 V	79.5 V
Peak power tracking voltage	27 V - 37 V	27 V - 45 V	53 V - 64 V
Operating range	16 V - 48 V	16 V - 60 V	25 V - 79.5 V
Min/Max start voltage	22 V / 48 V	22 V / 60 V	33 V / 79.5 V
Max DC short circuit current (module I <sub>sc</sub> )	15 A	15 A	10 A
Overvoltage class DC port	II	II	II
DC port backfeed under single fault	0 A	0 A	0 A
<b>OUTPUT DATA (AC)</b>	<b>IQ 7 Microinverter</b>	<b>IQ 7+ Microinverter</b>	<b>IQ 7X Microinverter</b>
Peak output power	250 VA	295 VA	320 VA
Maximum continuous output power	240 VA	290 VA	315 VA
Nominal (L-N) voltage/range <sup>3</sup>	230 V / 184-276 V	230 V / 184-276 V	230 V / 184-276 V
Maximum continuous output current	1.04 A	1.26 A	1.37 A
Nominal frequency	50 Hz	50 Hz	50 Hz
Extended frequency range	45 - 55 Hz	45 - 55 Hz	45 - 55 Hz
Maximum units per 20 A (L-N) branch circuit <sup>4</sup>	16 (230 VAC)	13 (230 VAC)	12 (230 VAC)
Overvoltage class AC port	III	III	III
AC port backfeed current	0 A	0 A	0 A
Power factor setting	1.0	1.0	1.0
Power factor (adjustable)	0.8 leading ... 0.8 lagging	0.8 leading ... 0.8 lagging	0.8 leading ... 0.8 lagging
<b>EFFICIENCY</b>	<b>@230 V</b>	<b>@230 V</b>	<b>@230 V</b>
EN 50530 (EU) weighted efficiency	96.5 %	96.5 %	96.5 %
<b>MECHANICAL DATA</b>			
Ambient temperature range	-40°C to +65°C	-40°C to +65°C	-40°C to +60°C
Relative humidity range	4% to 100% (condensing)		
Connector type	MC4 (or Amphenol H4 UTX with additional Q-DCC-5 adapter)		
Dimensions (WxHxD)	212 mm x 175 mm x 30.2 mm (without bracket)		
Weight	1.08 kg		
Cooling	Natural convection - No fans		
Approved for wet locations	Yes		
Pollution degree	PD3		
Enclosure	Class II double-insulated, corrosion resistant polymeric enclosure		
Environmental category / UV exposure rating	Outdoor - IP67		
<b>FEATURES</b>			
Communication	Power Line Communication (PLC)		
Monitoring	Enlighten Manager and MyEnlighten monitoring options Compatible with Enphase Envoy-S		
Compliance (pending)	AS 4777.2, RCM, IEC/EN 61000-6-3, IEC/EN 62109-1, IEC/EN 62109-2		

1. No enforced DC/AC ratio in NZ. In Australia, CEC design guidelines state inverter continuous AC power output cannot be less than 75% of the array peak power.
2. Maximum DC input limited to 350 W at 25°C as per AU/NZS 5033:2014 4.3.12(d).
3. Nominal voltage range can be extended beyond nominal if required by the utility.
4. Limits may vary. Refer to local requirements to define the number of microinverters per branch in your area.

To learn more about Enphase offerings, visit [enphase.com/au](http://enphase.com/au)



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October 7, 2022

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Re: Engineering Services  
Masters Residence  
5460 Southeast 24<sup>th</sup> Street, Ocala FL  
6.000 kW System

To Whom It May Concern:

We have received information regarding solar panel installation on the roof of the above referenced structure. Our evaluation of the structure is to verify the existing capacity of the roof system and its ability to support the additional loads imposed by the proposed solar system.

**A. Site Assessment Information**

1. Site visit documentation identifying attic information including size and spacing of framing for the existing roof structure.
2. Design drawings of the proposed system including a site plan, roof plan and connection details for the solar panels. This information will be utilized for approval and construction of the proposed system.

**B. Description of Structure:**

**Roof Framing:** Prefabricated wood trusses at 24" on center. All truss members are constructed of 2 x 4 dimensional lumber.  
**Roof Material:** Composite Asphalt Shingles  
**Roof Slopes:** 27 +/- degrees  
**Attic Access:** Accessible  
**Foundation:** Permanent

**C. Loading Criteria Used**

- **Dead Load**
  - Existing Roofing and framing = 7 psf
  - New Solar Panels and Racking = 3 psf
  - TOTAL = 10 PSF
- **Live Load** = 20 psf (reducible) – 0 psf at locations of solar panels
- **Ground Snow Load** = 0 psf
- **Wind Load** based on ASCE 7-16
  - Ultimate Wind Speed = 130 mph (based on Risk Category II)
  - Exposure Category B

*Analysis performed of the existing roof structure utilizing the above loading criteria is in accordance with the FBC 2020 7<sup>th</sup> Edition, including provisions allowing existing structures to not require strengthening if the new loads do not exceed existing design loads by 105% for gravity elements and 110% for seismic elements. This analysis indicates that the existing framing will support the additional panel loading without damage, if installed correctly.*

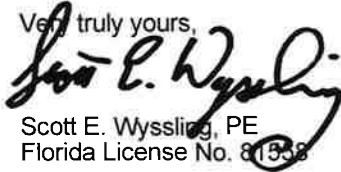
**D. Solar Panel Anchorage**

1. The solar panels shall be mounted in accordance with the most recent Unirac installation manual. If during solar panel installation, the roof framing members appear unstable or deflect non-uniformly, our office should be notified before proceeding with the installation.
2. The maximum allowable withdrawal force for a #14 lag screw is 246 lbs per inch of penetration as identified in the National Design Standards (NDS) of timber construction specifications. Based on two screws with a minimum penetration depth of 1½", the allowable capacity per connection is greater than the design withdrawal force (demand). Considering the variable factors for the existing roof framing and installation tolerances, the connection using two #14 lag screw with a minimum of 1½" embedment will be adequate and will include a sufficient factor of safety.
3. Considering the wind speed, roof slopes, size and spacing of framing members, and condition of the roof, the panel supports shall be placed no greater than 48" on center.
4. Panel supports connections shall be staggered to distribute load to adjacent framing members.

Based on the above evaluation, this office certifies that with the racking and mounting specified, the existing roof system will adequately support the additional loading imposed by the solar system. This evaluation is in conformance with the *FBC 2020 7<sup>th</sup> Edition*, current industry standards and practice, and is based on information supplied to us at the time of this report.

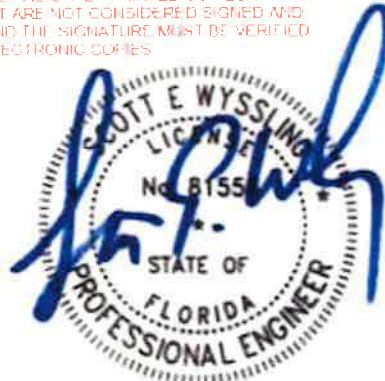
Should you have any questions regarding the above or if you require further information do not hesitate to contact me.

Very truly yours,



Scott E. Wyssling, PE  
Florida License No. 81558

THIS PLAN HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY SCOTT WYSSLING, PE USING A DIGITAL SIGNATURE AND DATE. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.



**Wyssling Consulting, PLLC**  
76 N Meadowbrook Drive Alpine UT 84004  
Florida License # RY34912

Date Signed 10/7/2022





ATLANTIC KEY ENERGY LLC  
 1008 STAPPOINT CT  
 WINTER PARK, FL 32792  
 +1 (877) 988-0273

PROJECT NAME & ADDRESS

JENNY MASTERS  
 RESIDENCE  
 4600 SOUTHEAST 24TH STREET  
 OCALA, FL 34480

SIGNATURE WITH SEAL

REVISIONS	DATE	REV

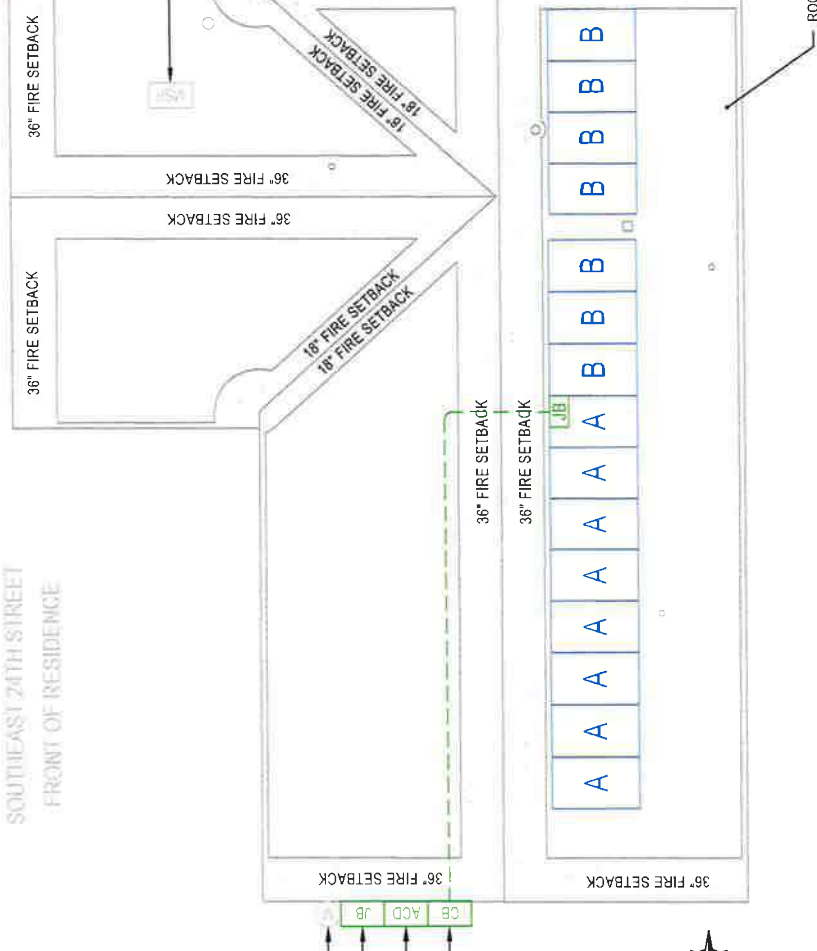
Drawn by: KAC  
 Checked by: JMB  
 Job: 107702

SHEET NAME  
**STRING LAYOUT & SIGNAGE**  
 SHEET NUMBER  
**E-1**

THIS IS A COPY OF THE ELECTRICAL DESIGN DRAWING FOR THE STRING LAYOUT AND SIGNAGE. IT IS NOT TO BE USED FOR ANY OTHER PURPOSES. ANY CHANGES TO THE DESIGN MUST BE APPROVED BY THE DESIGNER. ANY ELECTRICAL WORK MUST BE PERFORMED BY A LICENSED ELECTRICIAN.



Wyssling Consulting, PLLC  
 764 Westchase Drive, Alafia, FL 34429  
 Florida License # 12214  
 Date Signed 10/7/2022  
 (E) MAIN SERVICE PANEL



**LEGEND**

○	LOW CENTER
○	SUBPANEL
○	JUNCTION BOX
○	STRING CENTER (HP)
○	CONDUIT
○	ENERGY STORAGE
○	INTERCONNECTOR DEVICE
○	BACK UP LOADS PANEL

**ADDITIONAL LABELLED ITEMS**

- ATLANTA 4201 PRODUCT SAFETY SIGNS AVAILABLE PROVIDES GUIDELINES FOR SIGNAGE FONT SIZE, WORDS, COLORS, SYMBOLS AND LOCATION. THESE SIGNS ARE REQUIRED FOR ALL PHOTOVOLTAIC SYSTEMS TO BE INSTALLED IN THE ENVIRONMENT INVOLVED. SEE NEC 705.12(B).
- ADHESIVE FASTENED SIGNS MAY BE ACCEPTABLE IF PROPERLY ADHESIVE AND MARKINGS FOR PHOTOVOLTAIC SYSTEMS WILL BE REFLECTIVE AND MEET ALL REQUIREMENTS.

**1. WARNING**  
 PHOTOVOLTAIC POWER SOURCE  
 RISK OF ELECTRICAL SHOCK OR FIRE  
 PHOTOVOLTAIC SYSTEMS ARE EQUIPPED WITH RAPID SHUTDOWN CAPABILITY. ALWAYS USE THE SHUTDOWN PROCEDURE TO SAFELY DE-Energize THE SYSTEM BEFORE WORKING ON IT.

**EMERGENCY RESPONDER**  
 SOLAR PV SYSTEM EQUIPPED WITH RAPID SHUTDOWN  
 THIS SYSTEM IS EQUIPPED WITH RAPID SHUTDOWN CAPABILITY. ALWAYS USE THE SHUTDOWN PROCEDURE TO SAFELY DE-Energize THE SYSTEM BEFORE WORKING ON IT.

**PHOTOVOLTAIC AC DISCONNECT**  
 PHOTOVOLTAIC AC DISCONNECT  
 THIS DEVICE IS USED TO SAFELY DE-Energize THE PHOTOVOLTAIC SYSTEM BEFORE WORKING ON IT.

**RAPID SHUTDOWN SWITCH FOR SOLAR PV SYSTEM**  
 RISK OF ELECTRICAL SHOCK OR FIRE  
 PHOTOVOLTAIC SYSTEMS ARE EQUIPPED WITH RAPID SHUTDOWN CAPABILITY. ALWAYS USE THE SHUTDOWN PROCEDURE TO SAFELY DE-Energize THE SYSTEM BEFORE WORKING ON IT.

**1. WARNING**  
 DUAL POWER SOURCE  
 RISK OF ELECTRICAL SHOCK OR FIRE  
 PHOTOVOLTAIC SYSTEMS ARE EQUIPPED WITH RAPID SHUTDOWN CAPABILITY. ALWAYS USE THE SHUTDOWN PROCEDURE TO SAFELY DE-Energize THE SYSTEM BEFORE WORKING ON IT.

**FOR SERVICE CONTACT**  
 AKE  
 (407) 988-0273  
 ECFP-EC-13059713

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1 ROOF PLAN WITH STRING LAYOUT  
 SCALE: NTS  
 E-1

ATLANTIC KEY ENERGY LLC  
1006 STAPPOINT CT  
SIE B  
WINTER PARK, FL 32782  
+1 (407) 866-0273

JENNY MASTERS  
RESIDENCE  
5460 SOUTHEAST 24TH STREET  
OCALA, FL 34480

PROJECT NAME & ADDRESS

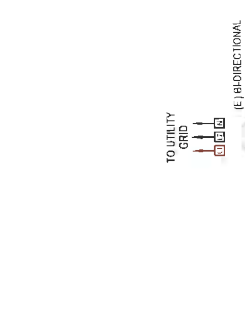
REVISIONS	DATE	REV

Drawn by: \_\_\_\_\_  
Checked by: \_\_\_\_\_  
Date: 10/7/2022

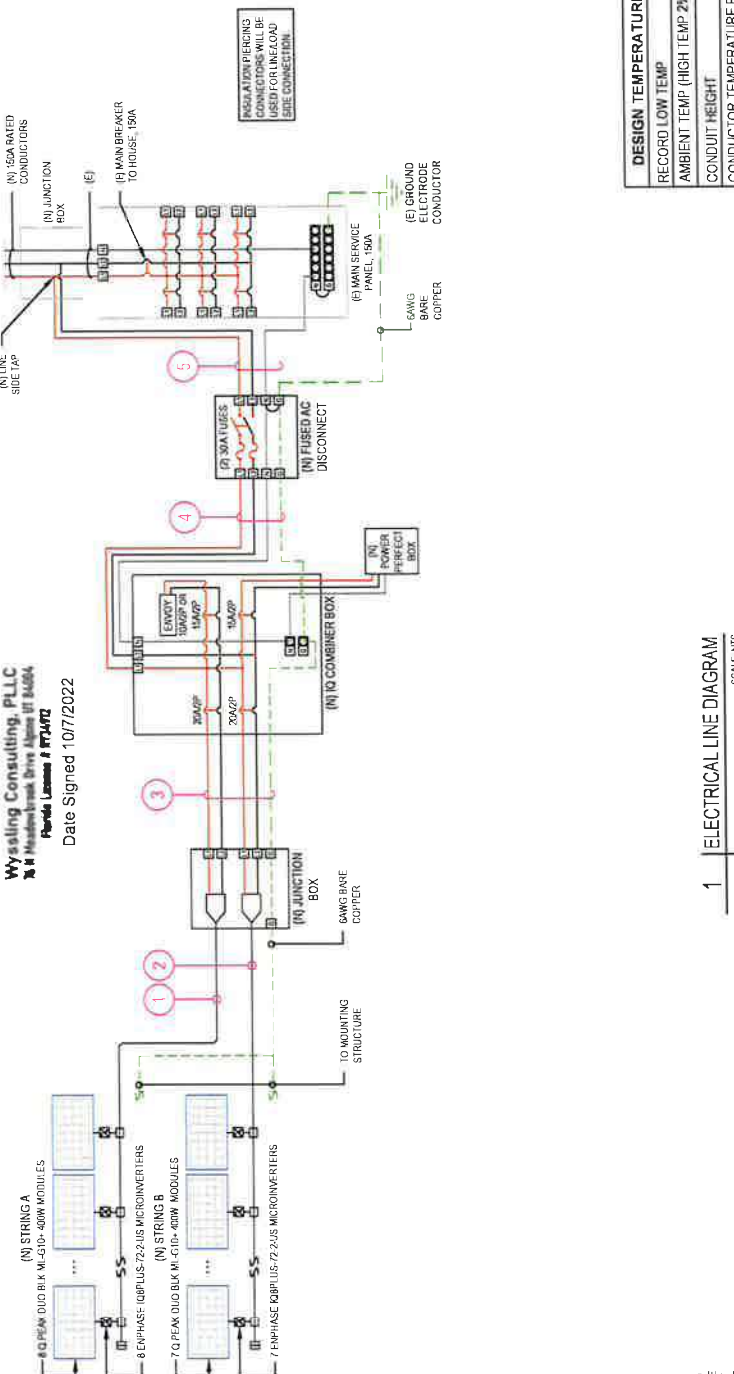
SHEET NAME: \_\_\_\_\_  
SHEET NUMBER: \_\_\_\_\_

ID	INITIAL CONDUCTOR LOCATION	FINAL CONDUCTOR LOCATION	MIN CONDUCTOR SIZE (AWG)	MIN DIA CONDUCTOR SIZE (IN)	# OF PARALLEL CIRCUITS	CURRENT-CARRYING CONDUCTORS IN CONDUIT	OCDF (A)	MIN. ECG. SIZE (AWG)	TEMP. CORR. FACTOR	CONDUIT FILL FACTOR	CONT. CURRENT (A)	MAX. CURRENT (A)	BASE AMP. (A)	DERATED AMP. (A)	TERM. AMP. RATING (A)	LENGTH (FT)	VOLTAGE DROP (%)
1	STRING A	JUNCTION BOX	12	N/A	1	2	N/A	6	0.76	N/A	9.68	12.10	30	N/A	N/A	26.00	0.41
2	STRING B	JUNCTION BOX	12	N/A	1	2	N/A	6	0.76	N/A	8.47	10.59	30	N/A	N/A	25.00	0.35
3	JUNCTION BOX	IQ COMBINER	10	0.75 LTNM	2	4	20	10	0.76	0.8	9.68	12.10	40	24.3	35	50.00	0.50
4	IQ COMBINER	AC DISCONNECT	10	0.75 LTNM	1	3	30	10	0.96	1	18.15	22.69	40	38.4	35	5.00	0.09
5	AC DISCONNECT	JB	6	0.75 LTNM	1	3	N/A	*	0.96	1	18.15	22.69	75	72.0	65	5.00	0.04

NOTE: LTNM OR EQUIVALENT TYPE CONDUIT



Wyssling Consulting, P.L.L.C.  
1111 Main Street, Suite 100, Ocala, FL 34480  
Florida License # 11554  
Date Signed 10/7/2022



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LEGEND  
(E) - EXISTING  
(N) - NEW

DESIGN TEMPERATURE SPECIFICATIONS  
RECORD LOW TEMP: -8°C  
AMBIENT TEMP (HIGH TEMP 2%): 34°C  
CONDUIT HEIGHT: 1.0'  
CONDUCTOR TEMPERATURE RATE (ROOF): 55°C

1 ELECTRICAL LINE DIAGRAM  
SCALE: NTS

E-2





**Certificate Of Completion**

Envelope Id: 0B62BF406435411481584B533B1D48A4	Status: Completed
Subject: Tri-Party Net Metering Agreement (Jennifer Lee Masters) [ELE/230405]	
Source Envelope:	
Document Pages: 34	Signatures: 5
Certificate Pages: 5	Initials: 0
AutoNav: Enabled	Envelope Originator:
Envelopeld Stamping: Enabled	Savannah Lewis
Time Zone: (UTC-05:00) Eastern Time (US & Canada)	110 SE Watula Avenue
	City Hall, Third Floor
	Ocala, FL 34471
	slewis@ocalafl.org
	IP Address: 216.255.240.104

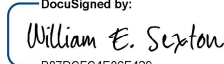
**Record Tracking**

Status: Original	Holder: Savannah Lewis	Location: DocuSign
4/13/2023 3:41:12 PM	slewis@ocalafl.org	
Security Appliance Status: Connected	Pool: StateLocal	
Storage Appliance Status: Connected	Pool: City of Ocala - Procurement & Contracting	Location: DocuSign

**Signer Events**

William E. Sexton  
wsexton@ocalafl.org  
City Attorney  
City of Ocala  
Security Level: Email, Account Authentication (None)

**Signature**

DocuSigned by:  
  
B07DCFC4E88E429...  
Signature Adoption: Pre-selected Style  
Using IP Address: 216.255.240.104

**Timestamp**

Sent: 4/13/2023 3:44:12 PM  
Viewed: 4/21/2023 2:26:13 PM  
Signed: 4/21/2023 2:26:36 PM

**Electronic Record and Signature Disclosure:**

Not Offered via DocuSign

Janice Mitchell  
jmittell@Ocalafl.org  
CFO  
Security Level: Email, Account Authentication (None)

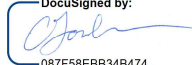
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Viewed: 4/21/2023 3:49:50 PM  
Signed: 4/24/2023 8:03:32 AM

**Electronic Record and Signature Disclosure:**

Accepted: 4/21/2023 3:49:50 PM  
ID: 7e64c122-f18b-4c4b-8b6a-7dc824413f41

Chris Gowder  
chris.gowder@fmpa.com  
VP of IT/OT and System Ops  
Security Level: Email, Account Authentication (None)

DocuSigned by:  
  
087F58EBB34B474...  
Signature Adoption: Uploaded Signature Image  
Using IP Address: 38.77.131.2

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Viewed: 4/24/2023 8:32:36 AM  
Signed: 4/24/2023 8:33:02 AM

**Electronic Record and Signature Disclosure:**

Accepted: 4/24/2023 8:32:36 AM  
ID: ea1e6843-9cd3-46c5-946a-97686f43b6a3

**In Person Signer Events**

**Signature**

**Timestamp**

**Editor Delivery Events**

**Status**

**Timestamp**

**Agent Delivery Events**

**Status**

**Timestamp**

**Intermediary Delivery Events**

**Status**

**Timestamp**

<b>Certified Delivery Events</b>	<b>Status</b>	<b>Timestamp</b>
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<b>Carbon Copy Events</b>	<b>Status</b>	<b>Timestamp</b>
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<b>Witness Events</b>	<b>Signature</b>	<b>Timestamp</b>
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<b>Notary Events</b>	<b>Signature</b>	<b>Timestamp</b>
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<b>Envelope Summary Events</b>	<b>Status</b>	<b>Timestamps</b>
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Envelope Sent	Hashed/Encrypted	4/13/2023 3:44:12 PM
Certified Delivered	Security Checked	4/24/2023 8:32:36 AM
Signing Complete	Security Checked	4/24/2023 8:33:02 AM
Completed	Security Checked	4/24/2023 8:33:02 AM

<b>Payment Events</b>	<b>Status</b>	<b>Timestamps</b>
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<b>Electronic Record and Signature Disclosure</b>
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To contact us by email send messages to: [contracts@ocalafl.org](mailto:contracts@ocalafl.org)

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To let us know of a change in your email address where we should send notices and disclosures electronically to you, you must send an email message to us at [contracts@ocalafl.org](mailto:contracts@ocalafl.org) and in the body of such request you must state: your previous email address, your new email address. We do not require any other information from you to change your email address.

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- i. decline to sign a document from within your signing session, and on the subsequent page, select the check-box indicating you wish to withdraw your consent, or you may;
- ii. send us an email to [contracts@ocalafl.org](mailto:contracts@ocalafl.org) and in the body of such request you must state your email, full name, mailing address, and telephone number. We do not need any other information from you to withdraw consent.. The consequences of your withdrawing consent for online documents will be that transactions may take a longer time to process..

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