OCALA ELECTRIC UTILITY OCALA, FLORIDA

FIRST REVISED SHEET NO. 19.0 CANCELS ORIGINAL SHEET NO. 19.0

# APPLICATION FOR INTERCONNECTION OF CUSTOMER-OWNED RENEWABLE GENERATION SYSTEMS

TIER 1 - Ten (10) kW or Less

1. Customer Information

TIER 2 - Greater than  $10\,kW$  and Less Than or Equal to  $100\,kW$ 

TIER 3 - Greater than 100 kW and Less Than or Equal to Two (2) MW

Note: These customer-owned renewable generation system size limits may be subject to a cumulative enrollment limit on net-metering customers located in the area served by the City of Ocala Electric Utility. Please refer to the Ocala Electric Utility Net-Metering Rate Schedule.

Ocala Electric Utility customers who install customer-owned renewable generation systems (RGS) and desire to interconnect those facilities with the Ocala Electric Utility system are required to complete this application. When the completed application and fees are returned to Ocala Electric Utility, the process of completing the appropriate Tier 1, Tier 2 or Tier 3 Interconnection Agreement can begin. This application and copies of the Interconnection Agreements may be obtained at Ocala Electric Utility, located at 201 SE 3rd Street, Ocala, Florida 34471, or may be requested by email from OEU@ocalafl.org.

# Name: Ehoud Buton Mailing Address: 1327 SE 3rd Street City: Ocala State: FL Zip Code: 34471 Phone Number: 352-277-7757 Alternate Phone Number: Email Address: ehoudb@gmail.com Fax Number: Ocala Electric Utility Customer Account Number: 529956-219082 2. RGS Facility Information Facility Location: 1327 Se 3rd Street OCala, Fl. 34471 Ocala Electric Utility Customer Account Number: 529956-219082 RGS Manufacturer: Hyundai Energy Solutions Manufacturer's Address: Reference or Model Number: HIS-S410YH(BK) (410W) MODULES Serial Number:

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# 3. Facility Rating Information

Gross Power Rating: <u>6.62kWac</u> ("Gross power rating" means the total manufacturer's AC nameplate generating capacity of an on-site customer-owned renewable generation system that will be interconnected to and operate in parallel with Ocala Electric Utility's distribution facilities. For inverter-based systems, the AC nameplate generating capacity shall be calculated by multiplying the total installed DC nameplate generating capacity by 0.85 in order to account for losses during the conversion from DC to AC.)

Fuel or Energy Source: Solar PV
Anticipated In- Service Date: 3/1/25

# 4. Application Fee

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

# 5. Interconnection Study Fee

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

## 6. Required Documentation

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

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

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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: Ehoud Buton	Date: 2/5/2025
(Print Name)	
& Bulon	
(Signature)	

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

Effective: October 1, 2019

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 <a href="5th">5th</a> day of <a href="February">February</a>, 20 25, 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 <a href="Ehoud Buton">Ehoud Buton</a>, 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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CONTRACT# ELE/250515

OCALA ELECTRIC UTILITY OCALA, FLORIDA (Continued from Sheet No. 20.0)

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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.

(Continued on Sheet No. 20.2)

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

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

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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 customerowned 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 firstoffered, 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. Effective: October 1, 2019 OCALA ELECTRIC UTILITY OCALA, FLORIDA (Continued from Sheet No. 20.2)

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

- 7.01. <u>Assignment</u>. It is understood and agreed that no party may transfer, sell, mortgage, pledge, hypothecate, convey, designate, or otherwise assign this Agreement, or any interest herein or any rights or obligations hereunder, in whole or in part, either voluntarily or by operation of law, (including, without limitation, by merger, consolidation, or otherwise), without the express written consent of the other parties (and any such attempt shall be void), which consent shall not be unreasonably withheld. Subject to the foregoing, this Agreement shall inure to the benefit of and be binding upon the parties and their respective successors and permitted assigns.
- 7.02 <u>Amendment</u>. It is understood and agreed that FMPA and OEU reserve the right, on no less than an annual basis, to change any of the terms and conditions, including pricing, in this Agreement on sixty (60) days advance written notice. FMPA and OEU may make such changes on an immediate basis in the event any applicable law, rule, regulation or court order requires them. In such event, FMPA and OEU will give Customer as much notice as reasonably possible under the circumstances.
- 7.03. <u>Indemnification</u>. To the fullest extent permitted by laws and regulations, and in return for adequate, separate consideration, Customer shall defend, indemnify, and hold harmless FMPA and OEU, their officers, directors, agents, guests, invitees, and employees from and against all claims, damages, losses to persons or property, whether direct, indirect, or consequential (including but not limited to fees and charges of attorneys, and other professionals and court and arbitration costs) arising out of, resulting from, occasioned by, or otherwise caused by the operation or misoperation of the customer-owned renewable generation, or the acts or omissions of any other person or organization directly or indirectly employed by the Customer to install, furnish, repair, replace or maintain the customer-owned renewable generation system, or anyone for whose acts any of them may be liable.
- 7.04. Governing Law. The validity and interpretation of this Agreement and the rights and obligations of the parties shall be governed and construed in accordance with the laws of the State of Florida without regard for any conflicts of law provisions that might cause the law of other jurisdictions to apply. All controversies, claims, or disputes arising out of or related to this Agreement or any agreement, instrument, or document contemplated hereby, shall be brought exclusively in the County or Circuit Court for Marion County, Florida, or the United States District Court sitting in Marion County, Florida, as appropriate.

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

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- 7.05. <u>Enforcement of Agreement</u>. 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)

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

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

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

City of Ocala Electric Utility	Florida Municipal Power Agency
By:signed by:	By: Docusigned by:
Title: CFO	Title: Chief Sys Ops & Tech Officer
Date:3/17/2025	Date:
Customer	
By: Ehoud Buton	Date:2/5/2025
(Print Name) (Signature)	
Customer's City of Ocala Electric Utility A	Account Number: <u>529956-219082</u>
Approved as to form and legality:	
Docusioned by: William E. Szoton	
William E. Sexton, Esq.	
City Attorney	

(Continued on Sheet No. 20.6)

Effective: October 1, 2019

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

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

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

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

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

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

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

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

# II. Payment for Unused Excess Energy Credits

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

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

Electric Utility Director

Effective: October 1, 2019

OCALA ELECTRIC UTILITY OCALA, FLORIDA

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

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

This <b>Agreement</b> is made and entered into this _	<u>5th</u> day of <u>February</u> , 20 <u>25</u> , by and
between Ehoud Buton	, (hereinafter called "Customer"), located at
1327 SE 3rd 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 pl	nysical location/premise where the interconnection
is taking place: 1327 Se 3rd Street OCala, F	T. 34471

### WITNESSETH

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

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

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

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

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

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

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

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

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

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Effective: October 1, 2019

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

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

- 8. The Customer is not precluded from contracting for the lease, operation or maintenance of the RGS with a third party. Such lease may not provide terms or conditions that provide for any payments under the agreement to any way indicate or reflect the purchase of energy produced by the RGS. Customer shall not enter into any lease agreement that results in the retail purchase of electricity; or the retail sale of electricity from the customer-owned renewable generation. Notwithstanding this restriction, in the event that Customer is determined to have engaged in the retail purchase of electricity from a party other than OEU, then Customer shall be in breach of this Agreement and may be subject to the jurisdiction of the Florida Public Service Commission and to fines/penalties.
- 9. The Customer shall provide a copy of the manufacturer's installation, operation and maintenance instructions to OEU. If the RGS is leased to the Customer by a third party, or if the operation or maintenance of the RGS is to be performed by a third party, the lease and/or maintenance agreements and any pertinent documents related to these agreements shall be provided to OEU.
- 10. Prior to commencing parallel operation with OEU's electric system, Customer shall have the RGS inspected and approved by the appropriate code authorities having jurisdiction. Customer shall provide a copy of this inspection and approval to OEU.
- 11. The Customer agrees to permit OEU, if it should so choose, to inspect the RGS and its component equipment and the documents necessary to ensure compliance with this Agreement both before and after the RGS goes into service and to witness the initial testing of the RGS equipment and protective apparatus. OEU will provide Customer with as much notice as reasonably possible, either in writing, email, facsimile or by phone as to when OEU may conduct inspections and or document review. Upon reasonable notice, or at any time without notice in the event of an emergency or hazardous condition, Customer agrees to provide OEU access to the Customer's premises for any purpose in connection with the performance of the obligations required by this Agreement or, if necessary, to meet OEU's legal obligation to provide service to its customers. At least ten (10) business days prior to initially placing the customer-owned renewable generation system in service, Customer shall provide written notification to OEU advising of the date and time at which Customer intends to place the system in service, and OEU shall have the right to have personnel present on the in-service date in order to ensure compliance with the requirements of this Agreement.

(Continued on Sheet No. 21.3)

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

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

- 12. The Customer's RGS must have an appropriately sized grid-tie inverter system that includes applicable protective systems. Customer certifies that the RGS equipment includes an OEU interactive inverter or interconnection system equipment that ceases to interconnect with the OEU system upon a loss of OEU's electric power. The inverter shall be considered certified for interconnected operation if it has been submitted by a manufacturer to a nationally recognized testing laboratory (NRTL) to comply with UL 1741. The NRTL shall be approved by the Occupational Safety & Health Administration (OSHA).
- 13. If Customer adds another RGS that (i) utilizes the same OEU interactive inverter for both systems, or (ii) utilizes a separate OEU interactive inverter for each system, Customer shall provide OEU with sixty (60) days advance written notice of the addition.
- 14. The Customer shall not energize the OEU system when OEU's system is deenergized. The Customer shall cease to energize the OEU system during a faulted condition on the OEU system and/or upon any notice from OEU that the deenergizing of Customer's RGS equipment is necessary. The Customer shall cease to energize the OEU system prior to automatic or non-automatic reclosing of OEU's protective devices. There shall be no intentional islanding, as described in IEEE 1547, between the Customer's and OEU' systems.
- 15. The Customer is responsible for the protection of its generation equipment, inverters, protection devices, and other system components from damage from the normal and abnormal operations that occur on OEU system in delivering and restoring system power. Customer agrees that any damage to any of its property, including, without limitation, all components and related accessories of its RGS system, due to the normal or abnormal operation of OEU system, is at Customer's sole risk and expense. Customer is also responsible for ensuring that the customer-owned renewable generation equipment is inspected, maintained, and tested regularly in accordance with the manufacturer's instructions to ensure that it is operating correctly and safely.
- 16. The Customer must install, at their expense, a manual disconnect switch of the visible load break type to provide a separation point between the AC power output of the customer-owned renewable generation system and any Customer wiring connected to OEU's system, such that back feed from the customer-owned renewable generation system to OEU's system cannot occur when the switch is in the open position. The manual disconnect switch shall be mounted separate from the meter socket on an exterior surface adjacent to the meter. The switch shall be readily accessible to OEU and capable of being locked in the open position with an OEU padlock. When locked and tagged in the open position by OEU, this switch will be under the control of OEU.

(Continued on Sheet No. 21.4)

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

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

- 17. Subject to an approved inspection, including installation of acceptable disconnect switch, this Agreement shall be executed by OEU within thirty (30) calendar days of receipt of a completed application. Customer must execute this Agreement and return it to OEU at least thirty (30) calendar days prior to beginning parallel operations with OEU's electric system, subject to the requirements of Section 18, below, and within one (1) year after OEU executes this Agreement.
- 18. Once OEU has received Customer's written documentation that the requirements of this Agreement have been met, all agreements and documentation have been received and the correct operation of the manual switch has been demonstrated to an OEU representative, OEU will, within fifteen (15) business days, send written notice that parallel operation of the RGS may commence.
- 19. OEU requires the Customer to maintain general liability insurance for personal injury and property damage in the amount of not less than one hundred thousand dollars (\$100,000.00).
- 20. OEU will furnish, install, own and maintain metering equipment capable of measuring the flow of kilowatt-hours (kWh) of energy. The Customer's service associated with the RGS will be metered to measure the energy delivered by OEU to Customer, and measure the energy delivered by Customer to OEU. Customer agrees to provide safe and reasonable access to the premises for installation, maintenance and reading of the metering and related equipment. The Customer shall not be responsible for the cost of the installation and maintenance of the metering equipment necessary to measure the energy delivered by the Customer to OEU.
- 21. The Customer shall be solely responsible for all legal and financial obligations arising from the design, construction, installation, operation, maintenance and ownership of the RGS.
- 22. The Customer must obtain all permits, inspections and approvals required by applicable jurisdictions with respect to the generating system and must use a licensed, bonded and insured contractor to design and install the generating system. The Customer agrees to provide OEU with a copy of the local building code official inspection and certification of installation. The certification shall reflect that the local code official has inspected and certified that the installation was permitted, has been approved, and has met all electrical and mechanical qualifications.

(Continued on Sheet No. 21.5)

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

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

- 23. In no event shall any statement, representation, or lack thereof, either express or implied, by OEU, relieve the Customer of exclusive responsibility for the Customer's system. Specifically, any OEU inspection of the RGS shall not be construed as confirming or endorsing the system design or its operating or maintenance procedures or as a warranty or guarantee as to the safety, reliability, or durability of the RGS. OEU's inspection, acceptance, or its failure to inspect shall not be deemed an endorsement of any RGS equipment or procedure. Further, as set forth in Sections 15 and 26 of this Agreement, Customer shall remain solely responsible for any and all losses, claims, damages and/or expenses related in any way to the operation or misoperation of its RGS equipment.
- 24. Notwithstanding any other provision of this Interconnection Agreement, OEU, at its sole and absolute discretion, may isolate the Customer's system from the distribution grid by whatever means necessary, without prior notice to the Customer. To the extent practical, however, prior notice shall be given. The system will be reconnected as soon as practical once the conditions causing the disconnection cease to exist. OEU shall have no obligation to compensate the Customer for any loss of energy during any and all periods when Customer's RGS is operating at reduced capacity or is disconnected from OEU' electrical distribution system pursuant to this Interconnection Agreement. Typical conditions which may require the disconnection of the Customer's system include, but are not limited to, the following:
  - a. OEU system emergencies, forced outages, uncontrollable forces or compliance with prudent electric OEU practice.
  - b. When necessary to investigate, inspect, construct, install, maintain, repair, replace or remove any OEU equipment, any part of OEU's electrical distribution system or Customer's generating system.
  - c. Hazardous conditions existing on OEU's system due to the operation of the Customer's generation or protective equipment as determined by OEU.
  - d. Adverse electrical affects (such as power quality problems) on the electrical equipment of OEU's other electric consumers caused by the Customer's generation as determined by OEU.
  - e. When Customer is in breach of any of its obligations under this Interconnection Agreement or any other applicable policies and procedures of OEU.
  - f. When the Customer fails to make any payments due to OEU by the due date thereof.
- 25. Upon termination of services pursuant to this Agreement, OEU shall open and padlock the manual disconnect switch and remove any additional metering equipment related to this Agreement. At the Customer's expense, within thirty (30) working days following the termination, the Customer shall permanently isolate the RGS and any associated equipment from OEU's electric supply system, notify OEU that the isolation is complete, and coordinate with OEU for return of OEU's lock.

(Continued to Sheet No. 21.6)

CONTRACT# ELE/250515

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

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

- 26. To the fullest extent permitted by law, and in return for adequate, separate consideration, Customer shall indemnify, defend and hold harmless OEU, any and all of their members of its governing bodies, and its officers, agents, and employees for, from and against any and all claims, demands, suits, costs of defense, attorneys fees, witness fees of any type, losses, damages, expenses, and liabilities, whether direct, indirect or consequential, related to, arising from, or in any way connected with:
  - a. Customer's design, construction, installation, inspection, maintenance, testing or operation of Customer's generating system or equipment used in connection with this Interconnection Agreement, irrespective of any fault on the part of OEU.
  - b. The interconnection of Customer's generating system with, and delivery of energy from the generating system to, OEU's electrical distribution system, irrespective of any fault on the part of OEU.
  - c. The performance or nonperformance of Customer's obligations under this Interconnection Agreement or the obligations of any and all of the members of Customer's governing bodies and its officers, agents, contractors (and any subcontractor or material supplier thereof) and employees.

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

- 27. Customer shall not have the right to assign its benefits or obligations under this Agreement without OEU's prior written consent and such consent shall not be unreasonably withheld. If there is a change in ownership of the RGS, Customer shall provide written notice to OEU at least thirty (30) days prior to the change in ownership. The new owner will be required to assume, in writing, the Customer's rights and duties under this Agreement, or execute a new Standard Interconnection Agreement. The new owner shall not be permitted to net meter or begin parallel operations until the new owner assumes this Agreement or executes a new Agreement.
- 28. This Agreement supersedes all previous agreements and representations either written or verbal heretofore made between OEU and Customer with respect to matters herein contained. This Agreement, when duly executed, constitutes the only Agreement between parties hereto relative to the matters herein described. This Agreement shall continue in effect from year to year until either party gives sixty (60) days' notice of its intent to terminate this Agreement.

(Continued on Sheet No. 21.7)

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

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

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

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

- 30. This Agreement incorporates by reference the terms of the tariff filed with the Florida Public Service Commission by OEU, including OEU's Net-Metering Service Rate Schedule, and associated technical terms and abbreviations, general rules and regulations and standard electric service requirements (as may be applicable) are incorporated by reference, as amended from time to time. To the extent of any conflict between this Agreement and such tariff, the tariff shall control.
- 31. OEU and Customer recognize that the Florida Statutes and/or the Florida Public Service Commission Rules, including those directly addressing the subject of this Agreement, may be amended from time to time. In the event that such statutes and/or rules are amended that affect the terms and conditions of this Agreement, OEU and Customer agree to supersede and replace this Agreement with a new Interconnection Agreement, which complies with the amended statutes/rules.

(Continued on Sheet No. 21.8)

CONTRACT# ELE/250515

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

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

- 32. Customer acknowledges that its provision of electricity to OEU hereunder is on a first-offered, first-accepted basis and subject to diminution and/or rejection in the event the total amount of electricity delivered to OEU pursuant to the OEU's Net-Metering Service Rate Schedule, (as filed with the Florida Public Service Commission), from all participating OEU customers, exceeds two and one-half percent (2.5%) of the aggregate customer peak demand on the OEU system.
- 33. This Agreement is solely for the benefit of OEU and Customer and no right nor any cause of action shall accrue upon or by reason, to or for the benefit of any third party not a formal party to this Agreement. Nothing in this Agreement, expressed or implied, is intended or shall be construed to confer upon any person or corporation other than OEU or Customer, any right, remedy, or claim under or by reason of this Agreement or any of the provisions or conditions of this Agreement; and, all provisions, representations, covenants, and conditions contained in this Agreement shall inure to the sole benefit of and be binding upon OEU and Customer and their respective representatives, successors, and assigns. Further, no term or condition contained in this Agreement shall be construed in any way as a waiver by OEU of the sovereign immunity applicable to OEU as established by Florida Statutes, 768.28.

OCALA ELECTRIC UTILITY OCALA, FLORIDA (Continued from Sheet No. 21.8)

FIRST REVISED SHEET NO. 21.9 CANCELS ORIGINAL SHEET NO. 21.9

Effective: October 1, 2019

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

City of Ocala Electric Utility:	Customer:
By: Janie Mithell  Title: CFO  Date: 3/17/2025	By: Ehoud Buton  (Print Name)  (Signature)  Date: 2/5/2010
	City of Ocala Electric Utility Account Number:  529956-219082
Approved as to form and legality:    Docusional by:   William E. Scholon   William E. Sexton, Esq. City Attorney	



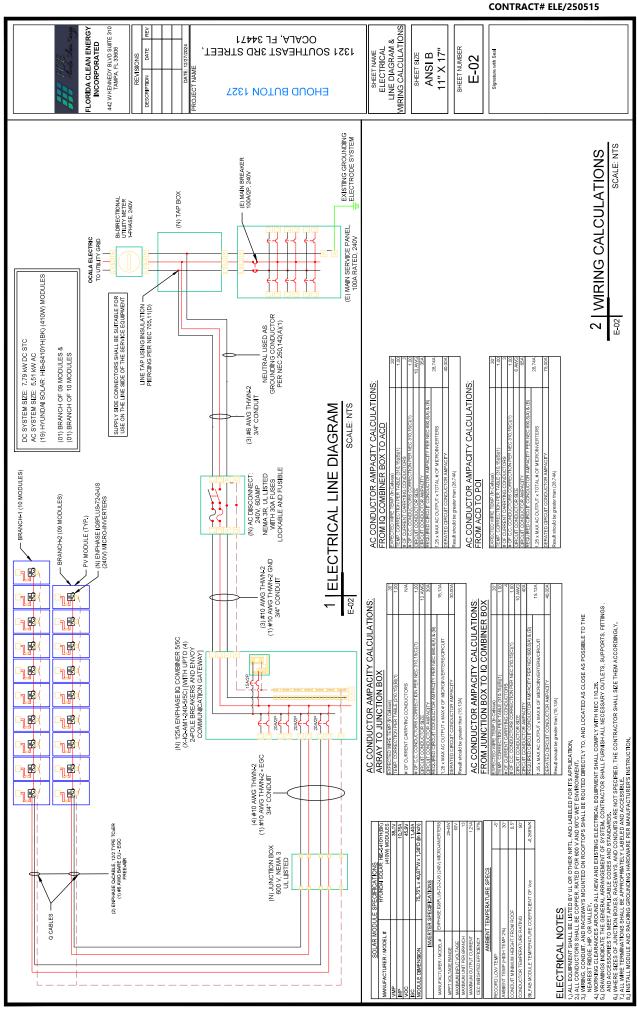
# CERTIFICATE OF LIABILITY INSURANCE

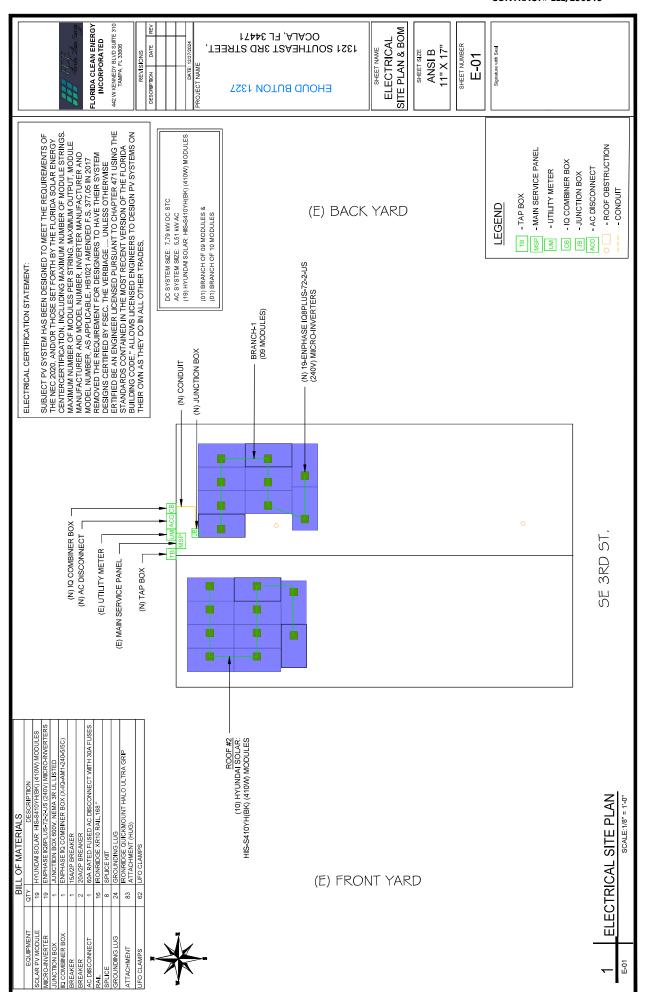
DATE (MM/DD/YYYY) 1/13/2025

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER. IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s). Katrina Grantham NAME: Katrina Grantham PHONE (A/C, No. Ext): 352-671-1833 E-MAIL katrina granthan PRODUCER Acentria Insurance - Gordon Reiss Insurance FAX (A/C, No): 352-671-1834 1823 E Fort King Street ADDRESS: katrina.grantham@acentria.com Suite 200 Ocala FL 34471 INSURER(S) AFFORDING COVERAGE NAIC# 17370 License#: L100460 BUTONEHO01 INSURER A: Nautilus Insurance Company INSURED INSURER B **Ehoud Buton** INSURER C 9691 SW 95TH Court, Unit A Ocala FL 34481 INSURER D INSURER E INSURER F : **REVISION NUMBER:** CERTIFICATE NUMBER: 1437616525 COVERAGES THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS. POLICY EFF POLICY EXP (MM/DD/YYYY) (MM/DD/YYYY) ADDL SUBR INSD WVD LIMITS TYPE OF INSURANCE POLICY NUMBER 5/24/2024 NN1703028 \$ 1,000,000 X COMMERCIAL GENERAL LIABILITY **FACH OCCURRENCE** DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 100,000 CLAIMS-MADE X OCCUR MED EXP (Any one person) \$ 5.000 PERSONAL & ADV INJURY \$1,000,000 GENERAL AGGREGATE \$ 2,000,000 GEN'L AGGREGATE LIMIT APPLIES PER PRODUCTS - COMP/OP AGG S JECT POLICY \$ OTHER: COMBINED SINGLE LIMIT (Ea accident) \$ AUTOMOBILE LIABILITY BODILY INJURY (Per person) \$ ANY AUTO ALL OWNED AUTOS SCHEDULED AUTOS BODILY INJURY (Per accident) \$ NON-OWNED AUTOS PROPERTY DAMAGE (Per accident) \$ HIRED AUTOS \$ EACH OCCURRENCE \$ UMBRELLA LIAB OCCUR AGGREGATE \$ **EXCESS LIAB** CLAIMS-MADE DED RETENTION \$ WORKERS COMPENSATION STATUTE AND EMPLOYERS' LIABILITY E.L. EACH ACCIDENT 5 ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory In NH) N/A E.L. DISEASE - EA EMPLOYEE \$ yes, describe under ESCRIPTION OF OPERATIONS below E.L. DISEASE - POLICY LIMIT \$ DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required) 1321 SE 3rd Street Ocala, FL 34471

CERTIFICATE HOLDER	CANCELLATION
City of Ocala	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.
110 SE Watula Avenue Ocala FL 34471	AUTHORIZED REPRESENTATIVE

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FLORIDA CLEAN ENERGY INCORPORATED 42 W KENNEDY BLVD SUITE 310 TAMPA, FL 33606

295 - 500+ 38-45

60-cell/120 nalf-cell, 66-cell/132 half-cell and 72-cell/144 half-cell

295 - 500

235-440 29 - 45

**Q8 Series Microinverters** 

DATA SHEET

60-cell/120 half-cell

27 - 37 30 / 48 25-48

APPT voltage lange

38 - 45

36 - 45

9

20

Aax DC currert<sup>3</sup> [module Isc]

Min/max start voltage Aax input DC voltage

Operating range

Overvoltage class DC port DC port backfeed current

0

Am

DESCRIPTION DATE





# **IQ8 Series Microinverters**

microinverter to operate in grid-tied or off-grid modes. This chip's built in advarced 55mm technology with high speed digital logic and has super-fast response times to changing loads and grid events, alleviating constraints on battary sizing for home Cur newest 1.08 Microinverters are the industry's first microgrid-forming, softwaredefined microinverters with spit-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 energy systems.





IQB Series Microinvertersredefine reliability standards with more than one million cumulative hours of power-on testing, enabling an industryleading limited warranty of up to 25 years. Part of the Enphase Energy System, IQ4 Series Microinverters irregrate with the Enphase IQ Battery, Enphase IQ Gattewy, and the Enphase App monitoring and amilysis software.



108 Series Microinvertersare UL Listed as PV Rapid Shut Down Equipment and conform with various regulations, wheninstalled according to manufacturer's instructions.

Connect PV modules quickly and easily to IQ8 Series Microinverters using the included Q-DCC-2 adapter cable with plug-1-play MC4 connectors.

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IQ6SE-DS-0001-01-EN-US-2022-03-17

Lightweight and compact with Power Line Communication (PLC) between components plug-n-play connectors

Max units per 20 A (L-L) branch circuit<sup>5</sup>

Overvoltage class AC port

AC short circuit fault current over

Extended frequency range

Nominal frequency

Max continuous output current

Max continuous output power Nominal (L-L) voltage/range<sup>4</sup>

Peak output power

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 atest highpowered PV modules

# Microgrid-forming

Approved for wet locations

- 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)
- Only when installed with IO System Controller 2, meets UI 7341. IOSH-208V operates only in grid-tled mode.
   I' CR Sories Microinvertors supports split phase, 240V, ICH-208 supports split phase, 208V only.

# 1321 SOUTHEAST 3RD STREET, OCALA, FL 34471

208 / 183 - 250

1.58

1.45

240 / 211 - 264

1.3

09

360 1.73

384

366

330

300 290 1.21

245

**EHOUD BUTON 1327** 4.4 97.4 6

9

\$2% 30 6

# MICROINVERTER DATA SHEET SHEET NAME

97.6

97.5

9

97.6

976

97.6

97.5

Gid-tied power factor (adjustable)

Power factor setting

6

CEC weightedefficiency

Peak efficiency

Vght-time power

MΕ

Anbient temperature range

Relative humid ty range

D2 Connector type

0.85 leading - 0.85 lagging

ANSI B 11" X 17" SHEET NUMBER

212 mm (8.3") x 175 mm (6.9") x 30.2 mm (1.2")

1.08 kg (2.38 lbs) MC4

Yes PD3

-40°C to +60°C (-40°F to +140°F)

4% to 100% (condensing)

SHEET SIZE

**DS-02** 

Class II double-insulated, corrosion resistant pol

NEMA Type 6 / outdoor

CA Rule 21 (UL 1741-SA), UL 62109-1, UL1741/IEEE1547,FCC Part 15 Class B, ICES-0003 Class B, CAN/CSA-C22.2 NO. 107;1-01 This product is U. Listed as PV Rapid Shut Down Equipment and conforms with NEC 2014, NEC 2017, and NEC 2020 section 1801. The STATEMENT of STATEMENT STATEM

IQ8SE-DS-0001-01-EN-US-2022-03-17

(0) The IOBH-200 variant will be operating in gird-sied mode only at 2009 AC. (2) No enforced DC/AC ratio. See theocompatibility of adulation stripsty//fixe Applicace-orm, modern or application in the IOBA (1) Maximum continuous input DC-current IOBA (1) Mornian Voltage range can be extended beyond rominal if required by the unitility (5) infull may var, Adeir to local equirements to define the number of microliveners per branch your teas.

Signature with Sea

442 W KENNEDY BLVD SUITE 310 TAMPA, FL 33606 FLORIDA CLEAN ENERGY INCORPORATED

DESCRIPTION DATE

REVISIONS

# **⊖** ENPHASE.



X-IQ-AM1-240-5 X-IQ-AM1-240-5C

# IQ Combiner 5/5C

The IQ Combiner 5/5C consolidates interconnection equipment into a single enclosure and streamlines IQ Series Mivoinverters and IQ Gestaway installation by providing a consistent, pre-wired solution for residential applications, IQ Combiner 5/5C uses wired control communication and is compatible with IQ System Controller 3/56 and IQ Battery 9B.

The IQ Combiner 5/5C, abng with IQ Series Microinverters, IQ System Controller 3/3G, and IQ Battery 5P provides you with a complete grid-agnostic Enphase Energy System.





ID System Controller 3/36
Provides intercognit interconnection
device (MD) functionality by
automatically detecting grid frillures and
seamlessly transitioning the home energy
system from grid power to backup power

IQ Series Microinverters
The high-powered smart grid-ready IQ Series
Microinverters (IQ6, IQ7, and IQ8 Series)
dramatically simplify the installation process



IQ Load Controller
Helps prioritize assential appliances
during a grid outags to optimize
energy consumption and prolong
battery life

IQ Battery 5P Fully integrated AC battery system. Includes six field-replaceable IQ8D-BAT Microinverters





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ICC-5-5C-D3H-00007-2.0-EN-US-2023-09-27

- Includes Enphase Mobile Cornect (CELLMODEM-M1-06-SP-05), only with IQ Combiner 5C Smart

  Includes IQ Gateway for communication and control
- Supports flexible networking: Wi-Fi, Ethernet, or cellular
- Provides production metering (revenue grade) and consurrption monitoring

# Easy to install

- Mounts to one stud with centered brackets
  - Supports bottom, back, and side conduit entry

DATA SHEET-1

ANSI B 11" X 17"

SHEET SIZE

DS-03 SHEET NUMBER

COMBINER

- Supports up to four 2-pole branch circuits for 240 VAC plug-in breakers (not included)
  - Bluetooth based Wi-Fi provisioning for easy Wi-Fi setup 80 A total PV branch circuits

# Reliable

- Durable NRTL-certified NEMA type 3R enclosure
- 5-year limited warranty
   Two years labor reimbursement program coverage included for both the IQ Combiner SKUs
  - UL1741listed

# IQ Combiner 5/5C

DATASHEET

Cocrabiance 5 (Ari Ch. AMH-2409)  Cocraming for a cocraming monitoring (12 28) and (10 Bittumy monitoring (12 28)) and (12 Bittumy mon	MODEL NOMBER	
The read of CR-10-AM1-240-5C)  S IN THE BIX  Teway printed circuit board  cition CT  Imprion CT  They CT  board  b	IQ Cambiner 5 (X-IQ-AMI-240-5)	IO Combiner 5 with IO Gateway printed circuit board for integrated revenue grade PV production matering MCSCIZ25 LOSS/comamploom maniforing (£.25%), and IO Battery monitoring (£.25%), and IO Battery monitoring (£.25%).
S IN THE BOX  tevery printed circuit board  transplance or critical transplanc	IQ Cambiner 5C (X-10-AM1-240-5C)	IO Combiner 5C with 10 Gateway printed circuit board for integrated revenue grade PV production metering LMS (UZ2-20-50-50-5), consumption monitoring (£2.5%) and IO Battery monitoring (£2.5%), includes a silver includes Enphase Mobile Cornect cellular modem (CELLMODEM-MI-06-5905)*, includes a silver solar shield to deflect heat.
reway printed circuit board  retay Cr  ction Cr  maption Cr  teay Cr  board  bo	WHAT'S IN THE BOX	
treary breaker ction CT they CT board board board connect (cniy with Io Combiner 3C) sories Mt sofiles And Retucterent ract's (MOT INCLUSE) 080 CODEM-M-NOE-8P-05 CODEM-M-NOE-8P-05 CODEM-M-NOE-8P-05 CODEM-M-NOE-8P-05 TO-PCEA-5 A-HD-12SA TICAL SPECIFICATIONS TO control stoomer and/or stoomes reding ment rating ment rating ment rating ment rating sway breaker sich mentering CT TO-PCEA-9	IQ Gateway printed circuit board	IO Gateway is the platform for total energy management for comprehensive, remote maintenance and management of the Enphase IO System
revory breaker ection CT miption CT miption CT stery CT board boar	Busbar	125A buspar with support for 1x IO Sateway breaker and 4 x 20A breaker for installing IO Series Microinverters and IO Battery 5P
cition CT  They CT  Board  Boa	IQ Gateway breaker	Oircuit breaker, 2-pole, 10 A/15 A
treny CT  beard  beard  CD board  CD	Procuetion CT	Prewiredravenue-grade solid core CT, accurate up to 0.5%
board  Bo	Consumption CT	Two consumption metering clamp CTs, shipped with the box, accurate up to 2.5%
board  board  services it it  SORIES AND REPLACEMENT PARTS INOTITICUDED ORD  MASSINELD-ES  A-HD-GEN-B  A-HD-GEN-B  SORIES AND REPLACEMENT REPLACEMENT INDEPLACEMENT  SORIES AND REPLACEMENT OF THE PARTS INOTITICUDED ORD  SORIES AND REPLACEMENT OF THE PARTS IN THE PARTS IN THE PARTS INOTITICUDED ORD  SORIES AND REPLACEMENT OF THE PARTS IN THE	IQ Battery CT	One battery metering clamp CT, shipped with the box, accurate up to 2.5%
ssories kt  Solicies kt  Solicies kt  Solicies Auto REPLACEMENT PARTS (NOT ITCLUDED) 0R80  Solicies Auto REPLACEMENT PARTS (NOT ITCLUDED) 0R80  Solicies Auto Replacement of the shado observed of the shado observed (or cut-of-ad) observed (or cut-	CTR_board	Control Leard for wired communication with IQ System Controller 3/3G and the IQ Battery 5P
soorlee kit  SOBIES AND REPLACEMENT PARTS (NOT INCLUDED, ORD  CODEM-MATOR-SP-05  CODEM-MATOR-SP-05  Decaders (ort-orded by Enphase)  LARSHELD-ES  2-PCBA-5  A-HD-R26A  INCLASPECIFICATIONS  INCONTRACTOR SECURITION (Input from PV/storage)  circuits closure and/or storage)	Enphase Mobile Connect (only with IQ Combiner 5C)	4G-based LTE-M1 cellular modem (CELLMODEM-M1-06-SP-05) with a 5-year T-Mobile data plan
SORIES AND REPLACEMENT PARTS (NOT INCLUDED, 089)  CODEM-MI-OG-SP-05  C	Accessories kit	Spare control headers for CTRL board
ODEM-MI-OB-SP-05  COEM-MI-OB-SP-05  Dealers (off-the-shelf)  Preaters (off-the-shelf)  Preaters (off-the-shelf)  LARSHELD-ES  2-PCBA-5  A-ID-IZ5A  A-ID-IZ5A  INCAL SPECIFICATIONS  Incontinuous current rating (input from PV/sorage)  matering  matering of cortact retaing (input)  matering of manifority breaker rating (input)  mysty breaker  into mereting OT  ey matering OT  ey matering OT  ey matering OT  ey matering OT	ACCESSORIES AND REPLACEMENT PARTS (NOT IICLUDED, C	RDER SEPARATELY)
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breaters (crif-the-shalf) breaters (crif-the-shalf) 2-CeBA-5 2-CeBA-5 3-C-CEBA-5 3-C-CEB	CELLMODEM-M1-06-AT-05	4G-based LTE-M1 cellular modem with a 5-year AT&T data plan
breakers (provided by Enphase)  LARSHIELD-ES  2-PCBA-5  A-HD-125A  RICAL SPECIFICATIONS  retring  monthrous current rething (input from PV/sorage)  include brand or storage)  motosib brand or storage)  motosib brand or storage)  motosib brand or (CP-200-CLAMP)  sway breaker  ety metering CT  ety metering CT  ety metering CT  ety metering CT	Circuit breakers (off-the-shalf)	Supports Eaton BR210, BR218, BR220, BR230, BR240, BR250, and BR260 circuit breakers Supports Eaton BR220B, BR230B, and BR240B circuit breakers compatible with hold-down kit
LARSHELD-ES 72-PCBA-5 A-HD-R26A AHD-R26A RICAL SPECIFICATIONS RICAL SPECIFICATIONS In continuous current rating (input from PV/storage) circuits (solar and/or storage) and banned branch circuit breaker rating (input) sway breaker filton metering CT mpton monitaring CT (CT-200-CLAMP)	Circut breakers (provided by Enphase)	BRK 10A 2-240V, BRK 15A 2-240V, BRK-20A 2P-240V, BRK-15A-2P-240V-B, and BRK 20A-2P-240V-B (More details in "Accessories" section)
72-PCBA-5 A-HD-12SA A-HD-12SA A16AL SPECIFICATIONS TEATURE TEATOR TOTAL SPECIFICATIONS TEATOR TOTAL TEATOR TOTAL TEATOR TOTAL TEATOR TOTAL TEATOR TOTAL TOTA	XA-SOLARSHIELD-ES	Replacement solar shield for IQ Combiner 5/5C
A-HD-12SA strong specifications avoings are rating am continuous current rating (input from PV/sorage) circuits tools and/or storage) am total branch circuit breaker rating (input) sway breaker storambering CT mpton monitoring CT (CT-200-CLAMP)	XA-EIIV2-PCBA-5	IQ Gateway replacement printed circuit board (PCB) for Combiner 5/5C
INTERLET SPECIFICATIONS  voltage  rating  mm continuous current rating (input from PV/sorage)  circuit stoker and/or storage)  mm total branch circuit breaker rating (input)  www.breaker  ston meritoring CT  mption monitoring CT (CT-200-CLAMP)	X-IQ-NA-HD-125A	Hold-down kit compatible with Eaton BR-B series circuit breakers (with screws)
voltage restring ment rating ment rating ment rating (input from PV/sorage) circuit stoker and/or storage) metal branch circuit breaker rating (input) www.yorasker rich mentering CT erypton monitoring CT (CT-200-CLAMP)	ELECTRICAL SPECIFICATIONS	
	Rating	80 A
	System voltage	120/240 VAC, 60 Hz
	Busbar rating	125.A
	Fault surent rating	10 KAIC
	Maxinum continuous current rating (input from PV/storage)	64 A
	Branch circuits (solar and/or storage)	Up to four 2-pole Eaton BR series distributed generation (DG) breakers only (not included)
	Maxinum total branch circuit breaker rating (input)	80 A of distributed generation/95 A with IQ Gateway breaker included
	IQ Gareway 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

OCALA, FL 34471

1321 SOUTHEAST 3RD STREET,

EHOUD BUTON 1327

A plug-and-play industrial-grade cell modem for systems up to 30 microinverters. (Available in the US, Canada, Mexico, Puerto Rico, and the US Virginibunds, where there is adequate cellular service in the natallation area.)

ICC-5-5C-DSH-00007-2.0-EN-US-2023-09-27

FLORIDA CLEAN ENERGY
INCORPORATED
442 W KENNEDY BLVD SUITE 310
TAMPA, FL 33806

REVISIONS DESCRIPTION DATE

MECHANICAL DAIA	
Dimensions (WxHxD)	37.5cm x 49.5 cm x 16.8 cm (14.75° x 19.5° x 6.63°). Heightis 21.08° (53.5 cm) with nounting brackets
Weight	7.5 kg (16.5 lbs)
Ambient temperature range	-40°Cto 46°C (-40°F to 115°F)
Cooling	Natural convection, plus heat shield
Enclosure environmental rating	Outdoor, NRTL-certified, NEMA type 3R, polycarbonate construction
Wire sizes	20 A DG NA Detailer inputs; Milch 4 MMG copper conductors     00 A broake franch input of LON ONR copper conductors     Main laur combined output 10 to 20 AM9 copper conductors     Manna land found for LON Opper conductors     Always follow loss code requirements for conductorating
Communication (In-premise connectivity)	Built-in CTRL board for wired communication with IQ Battery 5P and IQ System Certroller 3/3G. Integrated Power Line Communication for IQ Series Microinverters
Altitude	Up to 2,600 meters (8,530 feet)
COMMUNICATION INTERFACES	
Integrated Wi-Fi	802.11b/g/n (dual band 2.4 GHz/5 GHz), for connecting the Enphase cloud via the rternet
WI-Fi range (recommended)	10 m
Bluetooth	BLE42, 10 m range to configure Wi-Fi SSID
Ethernet	Optional, 802.3, CatSE (or Cat 6) UTP Ethernet cable (notincluded), for connecting to the Enphase Cloud via the Internet
Mobile Connect	CELLMODEM-M1-06-SP-05 or CELLMODEM-M1-06-AT-05 (included with IQ Combiner 5C)
Digital I/O	Digital input/output for grid operator control
USB 2.0	For Nobile Connect
Access point (AP) mode	For connection between the IQ Gateway and a mobile device running the Enphase Installer App
Metering ports	Up to two Consumption CTs, one IQ Battery CT, and one Production CT
Power line communication	90-II0 kHz
Web API	Refer to https://developer-v4.erphase.com
Local API	Refer to guide for local API
COMPLIANCE	
IQ Combiner	UL 1741, CAN/CSA C22.2 No. 1071, Title 47 CFR, Part 15, Class B, ICES 003
О Сатомау	UL 6969-1-/CAMICSA 22.2 No. 6910-1, IEEE 1547-2018 (UL 1741-88, 3v* Ed.) IEEE 2020-5/CSPI Compaga ARSI (CHZ 22 accuracy class 0.5 (PV production) Production metering. ARSI (CHZ 22 accuracy class 0.5 (PV production)
COMPATIBILITY	
IQ System Controller 3/3G	SC200DIffC240US01, SC200GIIC240US01
IQ Battery 5P	IQBATTERY-5P-1P-NA
Microinverter	IQ6, Q7, and IQ8 Series Microinverters

# Accessories



# **Enphase Mobile Connect**

4G-based LTE-MI cellular modem with a 5-year data plan (CELLMODEM-MI-06-SP-05 for Sprint and CELLMODEM-MI-06-8T-05 for AT&T)

# Circuit breakers

BRK-0AA-2-240V Circuthbrakier, 2-poie, 10 A, Earon BR210
BRK 2AB-2-240V Circuthbrakier, 2-poie, 15 A, Eaton BR215
BRK 2AB-2-240V Circuthbrakier, 2-poie, 15 A, Eaton BR215
BRK 2AB-2-240V BC Circuthbrakier, 2-poie, 10 A, Eaton BR218B
BRK 2AB-2-240V BC Circuthbrakier, 2-poie, 10 A, Eaton BR218B
BRX 2AB-2-240V BC Circuthbrakier, 2-poie, 10 A, Eaton BR218B
BR220B with higher Circuthbrakier, 2-poie, 20 A, Eaton BR218B

# CT-200-CLAMP

CT-200-SOLID

200 A revenue grade solid core Production CT
with -CLS% error rate (replacement SkU)

200 A clamp-style consumption and battery metering CT with <2.5% error rate (replacement SKU)

1321 SOUTHEAST 3RD STREET, OCALA, FL 34471

EHOUD BUTON 1327



SHEET SIZE ANSI B 11" X 17"

SHEET NUMBER DS-04

Signature with Sea

IQC-5-5C-DSH-00007-2.0-E4-US-2023-09-27

ICC-5-5C-DSH-00007-2.0-EN-US-2023-09-27

FLORIDA CLEAN ENERGY INCORPORATED 442 W KENNEDY BLVD SUITE 310 TAMPA, FL 33606

410 45.9 111.40 38.1 10.76 20.5

405 45.6 11.33 37.9 10.69 20.3

400 45.3 3 11.25 37.7 1 10.61 20.0 orystalline, 9busbar

395 45.0 11.18 37.5 19.8 Mono

390 44.8 11.11 37.3 10.47

385 44.5 11.04 37.1 10.40 19.3

DESCRIPTION DATE

REVISIONS

### CONTRACT# ELE/250515

# HYUNDAI SOLAR MODULE



**Dual Black Max** 

HIS-S385YH(BK) HIS-S390YH(BK) HIS-S395YH(BK) HIS-S405YH(BK) HIS-S410YH(BK)

( )



UL 1,500V IEC 1,500V Saves EOS Costs

More Power Generation In Low Light

Bifacial Cells



# - Anti-LID / PID Half-Cut & Multi-Wire Technology

Both LID(Light Induced Degradation) and PID(Potential Induced Degradation) are significantly reduced to ensure higher actual yield during lifetime.

technology and 9 thin wiring technology allows high module efficiency of up to 20.5%. It also reduces power generation loss due to micro-cracks.

Increased total power output through capturing light from both the front and back of Bifacial solar modules. Back side power gain up to 25% of the front output depending on PV system design.

Maximized Power Generation

Improved current flow with half-cut



UL / VDE Test Labs

Reliable Warranty

Global brand with powerful financial strength provide reliable 25-year Hyundai's R&D center is an accredited test laboratory of both UL and VDE.

design withstand rigorous weather conditions such as heavy snow(5,400Pa) and strong wind(4,000Pa).

Tempered glass and reinforced frame

Mechanical Strength

About Hyundai Energy Solutions

Establisher, in 1972, Hyunda Heavy Industries Group is one of the most trusted names in the heavy Industries sector and is a fortune 500 company. As a global leader and Innovator. Hyundal Heavy Industries is committed to building a future growth engine by developing and investing heavy in the field of relevable energy.

As a core energy business entity of HTII. Hyundai Energy Solutions has strong pride in providing high-quality PV products to more than 3,000 customers worldwide.

• 25-Year Performance Warranty
• Initial year: 38,0%
• Linear warranty after second year:
with 0.54% annual degradation.
85.0% is guranteed up to 25 years

(2) (2)

(II) US USTED

Certification

www.hyundai-es.co.kr

25-Year Product Warranty
 Materials and workmanship

25 YEARS

Hyundai's Warranty Provisions

ÇŞ.

HYUNDAI ENERGY SOLUTIONS

HYUNDAI ENERGY SOLUTIONS

Electrical Characteristics Temperature Coefficient of Isc Maximum System Voltage

tolerances Pmpp +3%; kc : Vic. +3%). Above data may be changed without prior notice.
arement tole
*All data at STC (Mezs

1,500 -0.347 -0.268 +0.032

onal Power Gain from rear side		385	390	395	400		410
2%	>	399	404	410	415	425	431
15%	>	437	443	449	454	466	472
25%	>	475	482	488	494	206	513

# Installation Safety Guide

Only qualified personnel should hstall or perform maintenance.

perform maintenance.

Be aware of dangerous high DC voltage.

Do not damage or scratch the rear surface of the module.

Do not handle or install modules when they

132 half cut bifacial cells (2 parallel x 66 half cells in series)

1,038 mm (W) x 1,924 mm (L) x 35 mm(H)

Mechanical Characteristics

Approx. 21.1 kg

OCALA, FL 34471 1321 SOUTHEAST 3RD STREET,

EHOUD BUTON 1327

Nominal Operating Cell Temperature	45.5°C ± 2
Operating Temperature	-40°C ~ +85°C
Maximum System Voltage	DC 1,500V
Maximum Reverse Current	20A
Maximum Test Load	Front 5,400Pa (113psf) Rear 4,000 <sup>2</sup> a (84psf)

Front : 3.2mm, High Transmission, AR Coated Tempered Glass Encapsulant : EVA | Back Sheet : Black Meshed Transparent Backsheet

Anodized aluminun alloy type 6063

Module Diagram (unit:

Front Side View

3 bypass diodes to prevent power decrease by partial shade

IP68, weatherproof, IEC certified (UL listed)

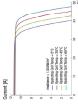
Cable : 1,200mm /4mm² Connector : MC4 genuine connector

**Dutput Cables** Junction Box

Solar Cells

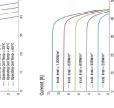
# I-V Curves

SHEET NAME
MODULE
DATA SHEET



ANSI B 11" X 17" SHEET NUMBER **DS-01** 

SHEET SIZE





DETAIL B

20.5 K.S



**Certificate Of Completion** 

Envelope Id: 6E4D63B1-FB23-40F1-A429-52797B581AE7

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William E. Sexton

**Signer Events Timestamp** Signature DocuSigned by

William E. Sexton wsexton@ocalafl.org

City Attorney City of Ocala

Security Level: Email, Account Authentication

(None)

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**Electronic Record and Signature Disclosure:** 

Not Offered via Docusign

Janice Mitchell jmitchell@Ocalafl.org

City of Ocala

Security Level: Email, Account Authentication

(None)

Janice Mitchell 55198B43858A4F1

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**Electronic Record and Signature Disclosure:** 

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Chris Gowder chris.gowder@fmpa.com

Chief Sys Ops & Tech Officer

Security Level: Email, Account Authentication

(None)

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Certified Delivery Events	Status	Timestamp	
Carbon Copy Events	Status	Timestamp	
Witness Events	Signature	Timestamp	
Notary Events	Signature	Timestamp	
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Envelope Summary Events	Status	Timestamps	
Envelope Summary Events  Envelope Sent	Status Hashed/Encrypted	<b>Timestamps</b> 3/14/2025 9:06:11 PM	
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Envelope Sent	Hashed/Encrypted	3/14/2025 9:06:11 PM	
Envelope Sent Certified Delivered	Hashed/Encrypted Security Checked	3/14/2025 9:06:11 PM 3/17/2025 4:42:22 PM	
Envelope Sent Certified Delivered Signing Complete	Hashed/Encrypted Security Checked Security Checked	3/14/2025 9:06:11 PM 3/17/2025 4:42:22 PM 3/17/2025 4:42:30 PM	

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To contact us by email send messages to: contracts@ocalafl.org

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