

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: Michael Chen  
Mailing Address: 5815 Northeast 70<sup>th</sup> Street  
City: Silver Springs State: FL Zip Code: 34488  
Phone Number: (702) 505-1607 Alternate Phone Number: \_\_\_\_\_  
Email Address: azharleyboy@yahoo.com Fax Number: \_\_\_\_\_  
Ocala Electric Utility Customer Account Number: 533031-238419

**2. RGS Facility Information**

Facility Location: Roof  
Ocala Electric Utility Customer Account Number: 533031-238419  
RGS Manufacturer: Hyundai  
Manufacturer's Address: \_\_\_\_\_  
Reference or Model Number: H15-S100YH(BK)  
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: 12.24 ("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: Photovoltaic

Anticipated In- Service Date: 4/1/23

### 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: Michael Okey Date: 5/1/23  
(Print Name)

Michael Okey  
(Signature)

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Electric Utility Director

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**Tier 2**  
**Standard Interconnection Agreement**  
**Customer-Owned Renewable Generation System**

This **Agreement** is made and entered into this 5 day of 1, 2023, by and between Michael Otey, (hereinafter called "**Customer**"), located at 5815 NE 70th St in Silver Springs, Florida, and the City of Ocala doing business as Ocala Electric Utility (hereafter called "**OEU**"), a body politic. Customer and OEU shall collectively be called the "**Parties**". The physical location/premise where the interconnection is taking place: 5815 NE 70th St, Silver Springs, FL 3788.

**WITNESSETH**

**Whereas**, a Tier 2 Renewable Generation System (RGS) is an electric generating system that uses one or of more of the following fuels or energy sources: hydrogen, biomass, solar energy, geothermal energy, wind energy, ocean energy, waste heat, or hydroelectric power as defined in Section 377.803, Florida Statutes, rated at more than 10 kilowatts (10 kW) but not greater than 100 kilowatts (100 kW) alternating current (AC) power output and is primarily intended to offset part or all of the customer's current electric requirements; and

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

**Whereas**, Customer has made a written Application to OEU, a copy being attached hereto, to interconnect its RGS with OEU's electrical supply grid at the location 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 OEU has agreed to purchase and receive, and FMPA has agreed to sell and supply OEU with all energy and capacity necessary to operate OEU's electric system, which limits OEU's ability to directly purchase excess energy from customer-owned renewable generation; and

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

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

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Electric Utility Director

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

1. The Customer shall be required to enter into a Tri-Party Net-Metering Purchase Power Agreement with FMPA and OEU.
2. "Gross power rating" (GPR) means the total manufacturer's AC nameplate generating capacity of an on-site customer-owned renewable generation system that will be interconnected to and operate in parallel with OEU distribution facilities. For inverter-based systems, the GPR shall be calculated by multiplying the total installed DC nameplate generating capacity by 0.85 in order to account for losses during the conversion from DC to AC.
3. This agreement is strictly limited to cover a Tier 2 RGS as defined above. It is the Customer's responsibility to notify OEU of any change to the GPR of the RGS by submitting a new application for interconnection specifying the modifications at least 30 days prior to making the modifications. In no case should modifications to the RGS be made such that the GPR increases above the 100 kilowatts (100 kW) limit.
4. The RGS GPR must not exceed 90 percent (90%) of the Customer's OEU calculated distribution service rating at the Customer's location (including shared electric facilities). If the GPR does exceed the 90 percent (90%) limit, the Customer shall be responsible to pay the cost of upgrades to the distribution facilities required to accommodate the GPR capacity and ensure the 90 percent (90%) threshold is not breached. OEU will not allow a RGS GPR greater than required to offset the customer's annual kWh energy consumption (based on customer's historical consumption data or by means of estimated usage of similar type of service as determined by OEU).
5. The Customer shall be required to pay a non-refundable application fee of \$375 for the review and processing of the application.
6. The Customer shall fully comply with OEU's Rules and Regulations and Electric Service Specifications as those documents may be amended or revised by OEU from time to time.
7. The Customer certifies that its installation, its operation and its maintenance shall be in compliance with the following standards (or most current version at time of inspection approval):
  - a. IEEE-1547 (2018) Standard for Interconnecting Distributed Resources with Electric Power System;
  - b. IEEE-1547.1 (2005) Standard Conformance Test Procedures for Equipment Interconnection Distributed Resources with Electric Power Systems;
  - c. UL-1741 (2010) Inverters, Converters, Controllers and Interconnection System Equipment for Use with Distributed *Energy Resources*.

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

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

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

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

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

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

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Electric Utility Director

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

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

19. OEU requires the Customer to maintain general liability insurance for personal injury and property damage in the amount of not less than one million dollars (\$1,000,000.00).

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

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

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

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

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

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

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

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

- a. Customer's design, construction, installation, inspection, maintenance, testing or operation of Customer's generating system or equipment used in connection with this Interconnection Agreement, irrespective of any fault on the part of OEU.

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Electric Utility Director

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

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

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

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

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

None of the provisions of this Interconnection Agreement shall be considered waived by either Party except when such waiver is given in writing. No waiver by either Party of any one or more defaults in the performance of the provisions of this Interconnection Agreement shall operate or be construed as a waiver of any other existing or future default or defaults. If any one or more of the provisions of this Interconnection Agreement or the applicability of any provision to a

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specific situation is held invalid or unenforceable, the provision shall be modified to the minimum extent necessary to make it or its application valid and enforceable, and the validity and enforceability of all other provisions of this Interconnection and all other applications of such provisions shall not be affected by any such invalidity or unenforceability. This Interconnection Agreement does not govern the terms and conditions for the delivery of power and energy to non-generating retail customers of OEU's electrical distribution system.

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

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

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

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

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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.

**OUS:**

**Customer:**

By: DocuSigned by:  
Janice Mitchell  
30178843858A4E1...  
Title: CFO  
Date: 8/2/2023

By: Michael Oley  
(Print Name)  
Michael Oley  
(Signature)  
Date: 8/1/23

City of Ocala Electric Utility Account Number:  
533031 - 238419

Approved as to form and legality:

DocuSigned by:  
William E. Sexton  
807DCFC4E86E429  
**William E. Sexton**  
City Attorney

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

Effective: October 1, 2019

OCALA ELECTRIC UTILITY  
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### Tri-Party Net-Metering Power Purchase Agreement

This Tri-Party Net-Metering Power Purchase Agreement (this "Agreement") is entered into this 1 day of may, 20  , 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 5815 NE 70th St, Silver Springs, FL 34488, a retail electric customer of OEU (hereinafter "Customer").

#### Section 1. Recitals

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

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

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

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

#### Section 2. Interconnection

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

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

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### **Section 3. Metering**

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

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

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

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

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

(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:  
Jarvis Mitchell  
35199843589A6E1...  
Title: CFO  
Date: 8/2/2023

**Florida Municipal Power Agency**

By: DocuSigned by:  
[Signature]  
067730E10D0B474...  
Title: VP of IT/OT and System Ops  
Date: 8/2/2023

**Customer**

By: Michael Okey Date: 5/1/23  
(Print Name)  
Michael Okey  
(Signature)

Customer's City of Ocala Electric Utility Account Number: 533031-23819

Approved as to form and legality:

DocuSigned by:  
William E. Sexton  
B07DCFC4E88E429...  
**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.



UNITED SERVICES AUTOMOBILE ASSOCIATION  
(A Reciprocal Interinsurance Exchange)  
9800 Fredericksburg Road, San Antonio, Texas 78288  
**PERSONAL UMBRELLA POLICY DECLARATIONS - Amended**

Policy Number: USAA 02828 82 35 70U

Effective: From 04/08/2023 to 12/04/2023  
(12:01 A.M. standard time at Umbrella Base Location)

Named Insured and Mailing Address:

Michael Lee Otey  
SFC ARNG RET  
5815 NE 70TH ST  
SILVER SPGS FL 34488-1122

Umbrella Base Location:

5815 Ne 70th St  
Silver Spgs, Marion, FL 34488

	<u>Limit</u> (per occurrence)	<u>Premium</u>
Umbrella Liability	\$1,000,000	\$307.47
FIGA Recoupment		\$6.15
<b>Total</b>		<b>\$313.62</b>

PREMIUM DUE AT INCEPTION

**SCHEDULE OF UNDERLYING INSURANCE**

**REQUIRED MINIMUM LIMITS**

<u>TYPE OF INSURANCE</u>	<u>Bodily Injury</u>	<u>Property Damage</u>	OR	<u>Combined Single Limit</u>
Private Passenger Vehicle Liability	\$300,000/\$500,000	\$100,000	OR	\$500,000
Miscellaneous Vehicle Liability	\$250,000/\$500,000	\$100,000	OR	\$500,000
Personal Liability				\$300,000
Watercraft/Pers Watercraft Liability				\$300,000

**USAA requires you to maintain NO LESS THAN the above REQUIRED MINIMUM LIMITS.  
See the Required Minimum Insurance Condition in your policy.**

**Please verify your actual limits and exposures on the attached Supplemental Declarations.**

This policy does not provide Uninsured Motorists Coverage.

ADJUSTMENT REASON(S):

Add vehicle

Delete vehicle

Countersigned by Agent

*Mina J. Vulpis*  
Mina Vulpis

In WITNESS WHEREOF, the Subscribers at UNITED SERVICES AUTOMOBILE ASSOCIATION have caused these presents to be signed by their Attorney-in-Fact on this date 04/07/2023.

*Wayne Peacock*

Wayne Peacock  
President, USAA Reciprocal Attorney-in-Fact, Inc.

PU2009D (05-13)

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Page 1 of 2

USAA 02828 82 35 70U

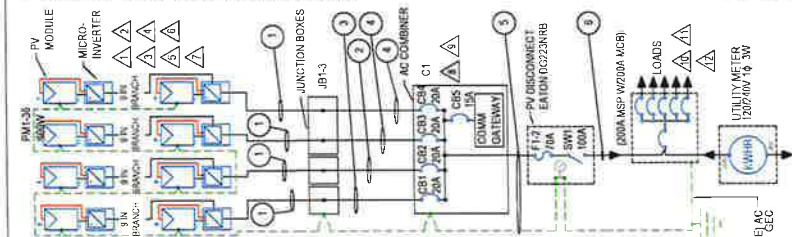
UNITED SERVICES AUTOMOBILE ASSOCIATION  
9800 Fredericksburg Road, San Antonio, Texas 78288  
**PERSONAL UMBRELLA POLICY DECLARATIONS - Amended**

Effective: From 04/08/2023 to 12/04/2023  
(12:01 A.M. standard time at Umbrella Base Location)

ENDORSEMENTS:

Added: NONE

Remain in Effect (Refer to Previous Policy) - PU-2011 (04-11), PU2009FL (11-10)



MODULES										
REF	QTY	MAKE AND MODEL	PMAX	PTIC	ESC	NTP	VOC	VMP	TEMP. COEFF. OF RES.	EMER. RATING
1	36	HYLAND HSE-6500T-BE	420W	370W	11.25A	10.0dB	49.3V	37.7V	-0.75%/C (107FN/C)	25A

INVERTERS										
REF	QTY	MAKE AND MODEL	MAX INPUT VOLTAGE	MAX OUTPUT CURRENT	RATED POWER	MAX RATED VOLTAGE	MAX RATED CURRENT	WAVELENGTH	EFFICIENCY	
1	36	EMPIRE QRM 72-05	48VDC	267V	250W	15A	1000W	2000W	87%	

PASS THRU BOXES AND COMBINERS										
REF	QTY	MAKE AND MODEL	MAX RATED VOLTAGE	MAX RATED CURRENT	MAX RATED POWER	MAX RATED VOLTAGE	MAX RATED CURRENT	MAX RATED POWER	MAX RATED VOLTAGE	
1	36	EMPIRE QRM 72-05	48VDC	267V	250W	15A	1000W	2000W	87%	

SYSTEM SUMMARY																			
BRANCH 1					BRANCH 2					BRANCH 3					BRANCH 4				
WATERS PER BRANCH					WATERS PER BRANCH					WATERS PER BRANCH					WATERS PER BRANCH				
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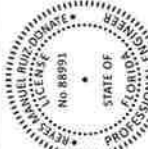
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CONDUCTOR AND CONDUIT SCHEDULE ELECTRICAL CALCULATIONS															
ID	TYPE	CONDUCTOR	CONDUIT / CABLE	CURRENT CARRYING CAPACITY IN CONDUIT/CABLE	OCGP	EGC	TEMP. CORR. FACTOR	ADJ. FACTOR	MAX. CURRENT (Amps)	BASE AMP	PERMISSIBLE AMP	TERM. TEMP. RATING	AMP. RATING	LEN	VD
1	4	12 AWG THHN/2 COPPER	CABLE	2	22A	8 AWG THHN/2 COPPER	0.71 (55°C)	1.2	17.15A	30A	21.4A	90°C	60A	230 FT	1.6IN
2	1	12 AWG THHN/2 COPPER	0.5 IN DIA. IMC	3	20A	10 AWG THHN/2 COPPER	0.78 (54°C)	1.2	12.15A	15.0A	30.4A	90°C	60A	30 FT	0.7IN
3	1	10 AWG THHN/2 COPPER	0.75 IN DIA. IMC	3	20A	12 AWG THHN/2 COPPER	0.75 (54°C)	1.0	12.15A	15.0A	30.4A	90°C	60A	20.6 FT	0.7IN
4	2	10 AWG THHN/2 COPPER	0.75 IN DIA. IMC	4	20A	12 AWG THHN/2 COPPER	0.75 (54°C)	1.0	12.15A	15.0A	30.4A	90°C	60A	48IN	0.7IN
5	1	10 AWG THHN/2 COPPER	1.0 IN DIA. IMC	3	20A	12 AWG THHN/2 COPPER	0.75 (54°C)	1.2	12.15A	15.0A	30.4A	90°C	60A	48IN	0.7IN
6	1	4 AWG THHN/2 COPPER	1.0 IN DIA. PVC-40	3	30A	4 AWG THHN/2 COPPER	0.99 (34°C)	1.0	48.0A	60.5A	97.0A	75°C	60A	48IN	0.6IN
7	1	4 AWG THHN/2 COPPER	1.0 IN DIA. PVC-40	3	30A	4 AWG THHN/2 COPPER	0.99 (34°C)	1.2	48.0A	60.5A	97.0A	75°C	60A	48IN	0.6IN

GENERAL ELECTRICAL NOTES	
1	UTILITY HAS 24-HR UNRESTRICTED ACCESS TO ALL PHOTOVOLTAIC SYSTEM COMPONENTS LOCATED AT THE SERVICE ENTRANCE.
2	CONDUCTORS EXPOSED TO SUNLIGHT SHALL BE LISTED AS SUNLIGHT RESISTANT PER NEC ARTICLE 300.6 (C) (1) AND ARTICLE 310.10 (D).
3	CONDUCTORS EXPOSED TO WET LOCATIONS SHALL BE SUITABLE FOR USE IN WET LOCATIONS PER NEC ARTICLE 310.10 (C).

GROUNDING NOTES	
1	ALL EQUIPMENT SHALL BE PROPERLY GROUNDING PER THE REQUIREMENTS OF NEC ARTICLES 250 & 800.
2	PV MODULES SHALL BE GROUNDING TO MOUNTING RAILS USING MODULE LUGS OR RACKING INTEGRATED GROUNDING CLAMPS AS ALLOWED BY LOCAL JURISDICTION. ALL OTHER EXPOSED METAL PARTS SHALL BE GROUNDING USING UL LISTED LAY-IN LUGS.
3	INSTALLER SHALL CONFIRM THAT MOUNTING SYSTEM HAS BEEN EVALUATED FOR COMPLIANCE WITH UL 2703 "GROUNDING AND BONDING" WHEN USED WITH PROPOSED PV MODULE.
4	IF THE EXISTING MAIN SERVICE PANEL DOES NOT HAVE A VERIFIABLE GROUNDING ELECTRODE, IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSTALL A SUPPLEMENTAL GROUNDING ELECTRODE.
5	AC SYSTEM GROUNDING (GEC) SHALL BE A MINIMUM SIZE #8AWG. WHEN INSULATED, #8AWG IF BARE WIRE.
6	EQUIPMENT GROUNDING CONDUCTORS SHALL BE SIZED ACCORDING TO NEC ARTICLE 690.45 AND BE A MINIMUM OF #10AWG, WHEN NOT EXPOSED TO DAMAGE, AND #8AWG SHALL BE USED WHEN EXPOSED TO DAMAGE.
7	GROUNDING AND BONDING CONDUCTORS, IF INSULATED, SHALL BE COLOR CODED GREEN, OR MARKED GREEN IF #8AWG OR LARGER.

1 SINGLE-LINE DIAGRAM  
PV-3 SCALE: NTS



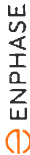
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Donate  
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signed and sealed by Reyes M. Ruiz  
Donate PE, Printed copies of this  
document are not considered signed  
and sealed and the signature must be  
verified on any electronic copies.  
Date: 2023.04.10 22:02:28 -0400

SINGLE-LINE DIAGRAM	
PROJECT ID: 459AD7-2	
DATE: 4/10/23	
CREATED BY: S.S.	
CHECKED BY:	
REVISIONS	
PV-3	





DATA SHEET



# IQ8M and IQ8A Microinverters

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



Part of the Enphase Energy System, IQ8 Series Microinverters integrate with the IQ Battery, 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.



IQ8 Series Microinverters are UL listed as PV Rapid Shutdown Equipment, and conform with various regulations, when installed 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-n-play MC4 connectors.

\*Only when installed with IQ System Controller 2, meets UL 1941.

\*\*UL and data subject to change.

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IQ8M-12A US 0089 03 EN-US-2022-02-27

## IQ8M and IQ8A Microinverters

INPUT DATA (DC)		IQ8M-12A-03	IQ8A-12A-03
Commonly used module pairings*	W	280 – 460	280 – 500
Module compatibility		54-cell / 108 half-cell, 60-cell / 120 half-cell and 72-cell / 144 half-cell	
MPPT voltage range	V	30 – 45	32 – 45
Operating range	V		16 – 58
Min. / Max. start voltage	V		22 / 58
Max. input DC voltage	V		60
Max. continuous input DC current	A		12
Max. input DC short-circuit current	A		25
Max. module I <sub>sc</sub>	A		20
Overvoltage class DC port			II
DC port backfeed current	mA		0
PV array configuration		1x Ungrounded array; No additional DC-side protection required; AC-side protection requires max 20A per branch circuit	

OUTPUT DATA (AC)		IQ8M-12A-03	IQ8A-12A-03
Peak output power	VA	330	365
Max. continuous output power	VA	325	349
Nominal (L-L) voltage / range*	V		240 / 211 – 264
Max. continuous output current	A	1.35	1.45
Nominal frequency	Hz		60
Extended frequency range	Hz		47 – 68
AC short circuit fault current over 3 cycles	A <sub>max</sub>		2
Max. units per 20 A (L-L) branch circuit*			11
Total harmonic distortion	%		<5%
Overvoltage class AC port			III
AC port backfeed current	mA		30
Power factor for selling			1.0
Grid-tied power factor (adjustable)			0.85 leading – 0.85 lagging
Peak efficiency	%	97.8	97.7
CEC weighted efficiency	%	97.5	97
Night-time power consumption	mW		60

TECHNICAL DATA		IQ8M-12A-03	IQ8A-12A-03
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 (H x W x D)		212 mm (8.3") x 175 mm (6.9") x 30.2 mm (1.2")	
Weight		108 kg (238 lbs)	
Cooling		Natural convection - no fans	
Approved for wet locations		Yes	
Pollution degree		PDS	
Enclosure		Class II double-insulated, corrosion resistant, polymeric enclosure	
End-use category / UV exposure rating		NEMA Type 6 / outdoor	

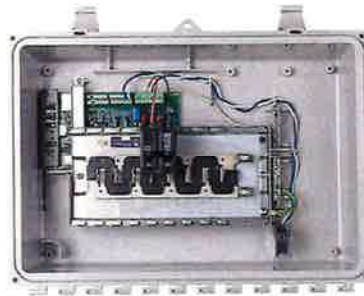
COMPLIANCE		IQ8M-12A-03	IQ8A-12A-03
Certifications		CA Rule 21 (UL 1741-SA), UL 1941, IEEE 1547-2018 (UL 1741-SB 3 <sup>rd</sup> Ed.), FCC Part 15 Class B, ICES-0003 Class B, CAN / CSA C22.2 NO. 1071-01 This product is UL listed as PV Rapid Shutdown Equipment and conforms with NEC 2017, NEC 2020 section 690.12 and 690.13 and 2021-2020 rules 64-218 Rapid Shutdown of PV Systems, for AC and DC conductors, when installed according to manufacturer's instructions.	

(1) Rating PV modules with wattage above the limit may result in additional clipping losses. See the compatibility calculator at <https://enphase.com/resources/compatibility>. (2) Nominal voltage ranges can be selected by regional requirements. (3) Lines may vary. Refer to local requirements and/or the number of microinverters per string for proper sizing.

IQ8M-12A US 0089 03 EN-US-2022-02-27

Enphase  
IQ Combiner 3  
(X-IQ-AM1-240-3)

The **Enphase IQ Combiner 3™** with Enphase IQ Envoy® consolidates interconnect/inverter equipment into a single enclosure and streamlines PV and storage installations by providing a consistent, pre-wired solution for residential applications. It offers up to four 2-pole, up to 60-amp and Eaton BR series busbar assembly.



## Smart

- Includes iO Envoy for communication and control
- Flexible network supports Wi-Fi, Ethernet, or cellular
- Optional AC receptacle available for PLC
- Provides protection on metering and optional consumption monitoring

## Simple

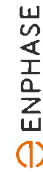
- Reduced size from previous combiner
- Centered mounting brackets support single stud mounting
- Supports back and side conduit entry
- Up to four 2-pole branch circuits for 240 VAC plug-in breakers (not included)
- An 8 total PV or storage branch circuits

## Reliable

- Durable NRTL-certified NEMA type 3R enclosure
- Five-year warranty
- UL listed



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



### Enphase IQ Combiner 3

MODEL NUMBER

IQ Combiner 3 X4G-A14-240-3

ACCESSORIES AND REPLACEMENT PARTS (not included, order separately)

Enphase Mobile Connect™  
CELLMODEM-01 (4G/ LTE) data plan  
CELLMODEM-01 (4G based LTE) 5-year data plan  
CELLMODEM-01 (4G based LTE) 7-year data plan

Consumption Monitoring CT  
CT 200 SPLIT  
Circuit Breakers  
BRK10A-2-240  
BRK15A-2-240  
BRK20A-2P-240

EPLC-01  
XA-PLUG-120-3  
XA-SW-PCIM-3

ELECTRICAL SPECIFICATIONS

Rating

System voltage  
Eaton BR series busbar rating  
Max. continuous current rating (output to grid)  
Max. fault/circuit rating (output)  
Branch circuits (cable and/or storage)  
Max. continuous current rating (input from PV)  
Max. total board circuit breaker rating (input)

120V/240 VAC, 60 Hz  
90 A  
Up to four 2-pole Eaton BR series Distributed Generation (30A) breakers only (not included)  
64 A  
80A of distributed generation / 90A with IQ Envooy breaker included  
200 A solid core pre-installed and wired to IQ Envooy

MECHANICAL DATA

Dimensions (Weight)  
Weight  
Ambient temperature range  
Coning  
Enclosure environmental rating  
Wire sizes

49.5 x 37.5 x 16.8 cm (19.5" x 14.75" x 6.63") Height is 21.06" (53.5 cm with mounting brackets)  
7.5 kg (16.5 lbs)  
-40°C to +48°C (-40°F to 118°F)  
Natural convection, plus heat shield  
Outdoor, NRTL-certified, NEMA type 3R, polycarbonate construction  
• 20 A to 50 A breaker inputs: 14 to 4 AWG copper conductors  
• 40 A breaker branch input: 4 to 1/0 AWG copper conductors  
• Main bus combined output: 10 to 2/0 AWG copper conductors  
• Neutral and ground: 14 to 1/0 copper conductors  
Always follow local code requirements for conductor sizing

Altitude

To 2000 meters (6560 feet)

INTERNET CONNECTION OPTIONS

Integrated Wi-Fi  
Ethernet  
Cellular

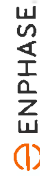
802.11b/g/n  
Optional, 802.3, Cat6 (or Cat 6) UTP Ethernet cable (not included)  
Optional, CELLMODEM-01 (8G) or CELLMODEM-03 (4G) or CELLMODEM-M1 (4G based LTE-M) (not included)

COMPLIANCE

Compliance, Combiner

UL 1741  
DIN VDE V 0100-510, IEC 60364-4-41, IEC 60364-7-710, IEC 60364-7-720, IEC 60364-7-730, IEC 60364-7-740, IEC 60364-7-750, IEC 60364-7-760, IEC 60364-7-770, IEC 60364-7-780, IEC 60364-7-790, IEC 60364-7-800, IEC 60364-7-810, IEC 60364-7-820, IEC 60364-7-830, IEC 60364-7-840, IEC 60364-7-850, IEC 60364-7-860, IEC 60364-7-870, IEC 60364-7-880, IEC 60364-7-890, IEC 60364-7-900, IEC 60364-7-910, IEC 60364-7-920, IEC 60364-7-930, IEC 60364-7-940, IEC 60364-7-950, IEC 60364-7-960, IEC 60364-7-970, IEC 60364-7-980, IEC 60364-7-990, IEC 60364-8-000, IEC 60364-8-010, IEC 60364-8-020, IEC 60364-8-030, IEC 60364-8-040, IEC 60364-8-050, IEC 60364-8-060, IEC 60364-8-070, IEC 60364-8-080, IEC 60364-8-090, IEC 60364-8-100, IEC 60364-8-110, IEC 60364-8-120, IEC 60364-8-130, IEC 60364-8-140, IEC 60364-8-150, IEC 60364-8-160, IEC 60364-8-170, IEC 60364-8-180, IEC 60364-8-190, IEC 60364-8-200, IEC 60364-8-210, IEC 60364-8-220, IEC 60364-8-230, IEC 60364-8-240, IEC 60364-8-250, IEC 60364-8-260, IEC 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# PRODUCT SHEET

- Highly costly, turnkey engineered system for residential and commercial installations
- Full sizes available to suit all structural conditions
- Universal compatibility on all roof types
- Use 2 innovative components to turn free system into Shared Rail or 1/4" lip
- MCS technology provides highest rail engagement
- Roof attachment = fit all roof types
- 100% code compliant, structural validation for all solar studies



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File Name	Directory
4000019	C:\SHR\1\44-X-166; Mail
4000020	C:\SHR\1\44-X-166; Dark
4000021	C:\SHR\1\44-X-166; Mail
4000022	C:\SHR\1\44-X-166; Dark



Case Report 110

Part Number	00000000
Cross Ref ID: 1687 M1	



## Yeti Clamp

Cap Number	010000000
Cap Number	010000000



### 4. Foot & Foot

PLATE NUMBER	DESCRIPTION
4000430	1-Pint Slotted Set, M.I.
4000431	1-Pint Slotted Set, Dark
4000490	1-Pint A. Set, M.I.

CrossRail (2-x)

Part Number	Dimensions
4000482	CrossRail 18 X 160, M16
4000483	CrossRail 18 X 165, Dark
4000476	CrossRail 18 X 160, M16
4000555	CrossRail 18 X 160, Dark



## CrossRail Mid Clamp

Part Number	Order Part
H-109C000	C8 MC Cap. 30-47nm, 13mm Hx
H-209C000	C8 MC Cap. 30-47nm, 13mm Hx
H-809C000	C8 MC Cap. 30-50nm, 12mm Hx
H-4330000	C8 MC Cap. 30-50nm, 12mm Hx



## Aluminum End Clamp

Ref Number	Description
4002316	CrossRef EC Serv AL 25-27mm
4002318	CrossRef EC Serv AL 34-35mm
4002350	CrossRef EC Serv AL 37-38mm
4002370	CrossRef EC Serv AL 38-41mm
4002371	CrossRef EC Serv AL 40-46mm
4002371	CrossRef EC Serv AL 46-47mm
4002372	CrossRef EC Serv AL 48mm
4002373	CrossRef EC Serv AL 49-50mm



## Life Hooks

File Name	File Type	File Name	File Type
00000001	00000001	00000002	00000002
00000003	00000003	00000004	00000004
00000005	00000005	00000006	00000006
00000007	00000007	00000008	00000008
00000009	00000009	00000010	00000010
00000011	00000011	00000012	00000012
00000013	00000013	00000014	00000014
00000015	00000015	00000016	00000016
00000017	00000017	00000018	00000018
00000019	00000019	00000020	00000020
00000021	00000021	00000022	00000022
00000023	00000023	00000024	00000024
00000025	00000025	00000026	00000026
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00000099	00000099	00000100	00000100

CrossRail (M-XL)

Part Number	Quantity
5500000	1000000
5500000	1000000



## Crossbill and Clasp

Part Number	Dimensions
4000429	CR EC Silver 30-50mm, SR 30-45mm
4000430	CR EC Dark 30-50mm, SR 30-45mm
4000403	SR EC Silver 30-50mm
4000404	SR EC Dark 30-50mm



## CrossRail Rail Connector

Part Number	Description
4000053	Ball Connector CR VEX-1 Set, Mfg.
4000052	Ball Connector CR VEX-1 Set, Dark
4000035	Ball Connector CR VEX-1 Set, Mfg.
4000036	Ball Connector CR VEX-1 Set, Dark
4000135	Ball Connector CR VEX-1 Set, Mfg.



## Standing Seam PowerClamps

Full Name	Organization
0000016	Standing Seam Press Camp, Min
0000017	Standing Seam Press Camp, Standout

**Certificate Of Completion**

Envelope Id: D209615D3AFE47F9A88E033D67CCC346

Status: Completed

Subject: Tri-Party Net Metering Agreement (Michael Otey) [ELE/230643]

Source Envelope:

Document Pages: 26

Signatures: 5

Certificate Pages: 5

Initials: 0

AutoNav: Enabled

Envelope Stamping: Enabled

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

Envelope Originator:

Jamil Ramirez

110 SE Watula Avenue

City Hall, Third Floor

Ocala, FL 34471

jramirez@ocalafl.org

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Security Appliance Status: Connected

Pool: StateLocal

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Location: DocuSign

**Signer Events**

William E. Sexton

wsexton@ocalafl.org

City Attorney

City of Ocala

Security Level: Email, Account Authentication  
(None)**Signature**

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Janice Mitchell

jmittell@ocalafl.org

CFO

Security Level: Email, Account Authentication  
(None)

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Sent: 7/31/2023 10:40:47 AM

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Accepted: 8/2/2023 4:33:59 PM

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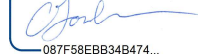
Chris Gowder

chris.gowder@fmpa.com

VP of IT/OT and System Ops

Security Level: Email, Account Authentication  
(None)

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Accepted: 8/2/2023 5:23:17 PM

ID: d7ee57ec-b259-402f-b928-3bc1eae1e455

**In Person Signer Events****Signature****Timestamp****Editor Delivery Events****Status****Timestamp****Agent Delivery Events****Status****Timestamp****Intermediary Delivery Events****Status****Timestamp**

Certified Delivery Events	Status	Timestamp
Carbon Copy Events	Status	Timestamp
Witness Events	Signature	Timestamp
Notary Events	Signature	Timestamp
Envelope Summary Events	Status	Timestamps
Envelope Sent	Hashed/Encrypted	7/21/2023 4:35:02 PM
Certified Delivered	Security Checked	8/2/2023 5:23:17 PM
Signing Complete	Security Checked	8/2/2023 5:23:31 PM
Completed	Security Checked	8/2/2023 5:23:31 PM
Payment Events	Status	Timestamps
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