

Contract # 230505

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](mailto:OEU@ocalafl.org).

**1. Customer Information**

Name: Sheree Clark

Mailing Address: 1980 SW 40th Place

City: Ocala State: FL Zip Code: 34471

Phone Number: 352-222-2922 Alternate Phone Number: \_\_\_\_\_

Email Address: florida4mom@yahoo.com Fax Number: \_\_\_\_\_

Ocala Electric Utility Customer Account Number: 533594-238436

**2. RGS Facility Information**

Facility Location: 1980 SW 40th Place, Ocala, FL 34471

Ocala Electric Utility Customer Account Number: 533594-238436

RGS Manufacturer: FBM400MFG-BB (40)

Manufacturer's Address: \_\_\_\_\_

Reference or Model Number: Enphase IQ8A-72-2-US (40)

Serial Number: \_\_\_\_\_

(Continued on Sheet No.19.1)

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

Effective: October 1, 2019

Ocala Electric Utility  
 Ocala, Florida  
 (Continue from Sheet No. 19.0)

FIRST REVISED SHEET NO. 19.1  
 CANCELS ORIGINAL SHEET NO. 19.1

### 3. Facility Rating Information

Gross Power Rating: 15.8Kw ("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

Anticipated In- Service Date: 05/02/2023

### 4. Application Fee

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

### 5. Interconnection Study Fee

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

### 6. Required Documentation

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

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

(Continued on Sheet No. 19.2)

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

Effective: October 1, 2019

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

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

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: SHERGE CLARK Date: 21 April 2023  
(Print Name)

  
(Signature)

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

Effective: October 1, 2019

Ocala Electric Utility  
Ocala, Florida

FIRST REVISED SHEET NO. 22.0  
CANCELS ORIGINAL SHEET NO. 22.0

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

This **Agreement** is made and entered into this 21 day of April, 2023, by and between Sherree Clark, (hereinafter called "**Customer**"), located at 1980 SW 40th Place in Ocala, Florida, and the City of Ocala doing business as Ocala Electric Utility (hereafter called "**OEU**"), a body politic. Customer and OEU shall collectively be called the "**Parties**". The physical location/premise where the interconnection is taking place: 1980 SW 40th Place, Ocala, FL, 34471.

**WITNESSETH**

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

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

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

(Continued on Sheet No. 22.1)

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

Effective: October 1, 2019



OCALA ELECTRIC UTILITY  
OCALA, FLORIDA  
(Continued from Sheet No. 22.0)

FIRST REVISED SHEET NO. 22.1  
CANCELS ORIGINAL SHEET NO. 22.1

**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*.

(Continued on Sheet No. 22.2)

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

Effective: October 1, 2019

OCALA ELECTRIC UTILITY  
OCALA, FLORIDA  
(Continued from Sheet No. 22.1)

FIRST REVISED SHEET NO. 22.2  
CANCELS ORIGINAL SHEET NO. 22.2

- 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.

(Continued on Sheet No. 22.3)

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

Effective: October 1, 2019

OCALA ELECTRIC UTILITY  
OCALA, FLORIDA  
(Continued from Sheet No. 22.2)

FIRST REVISED SHEET NO. 22.3  
CANCELS ORIGINAL SHEET NO. 22.3

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 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.

(Continued on Sheet No. 22.4)

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

Effective: October 1, 2019

OCALA ELECTRIC UTILITY  
OCALA, FLORIDA  
(Continued from Sheet No. 22.3)

FIRST REVISED SHEET NO. 22.4  
CANCELS ORIGINAL SHEET NO. 22.4

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 Sections 18 and 19, below, and within one (1) year after OEU executes this Agreement.

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

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

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

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

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

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

(Continued on Sheet No. 22.5)

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

Effective: October 1, 2019

Ocala Electric Utility  
 Ocala, Florida  
 (Continued from Sheet No. 22.4)

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

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

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

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

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

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

(Continued on Sheet No. 22.6)

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

Effective: October 1, 2019

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

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

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

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

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

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

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

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

(Continued on Sheet No. 22.7)

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

Effective: October 1, 2019

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

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

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

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

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

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

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

(Continued on Sheet No. 22.8)

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

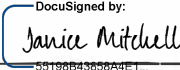
Effective: October 1, 2019

Ocala Electric Utility  
Ocala, Florida  
(Continued from Sheet No. 22.7)

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

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

OEU:

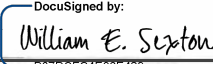
By:  55198B43858A4E1...  
Title: CFO  
Date: 5/15/2023

Customer:

By: SHEREE CLARK  
(Prior Name)  
Shen Clark  
(Signature)  
Date: 21 April 2023

City of Ocala Electric Utility Account Number:  
533594-238436

Approved as to form and legality:

 B07DCFC4E88E429...  
William E. Sexton  
City Attorney

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

Effective: October 1, 2019



Ocala Electric Utility  
Ocala, Florida

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

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

This Tri-Party Net-Metering Power Purchase Agreement (this "Agreement") is entered into this 21 day of April, 2023, by and between the Florida Municipal Power Agency, a governmental joint action agency created and existing under the laws of the State of Florida (hereinafter "FMPA"), the City of Ocala doing business as Ocala Electric Utility, a body politic (hereinafter "OEU"), and Sheree Clark, 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.

(Continued on Sheet No. 20.1)

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

Effective: October 1, 2019

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

FIRST REVISED SHEET NO. 20.1  
CANCELS ORIGINAL SHEET NO. 20.1

### **Section 3. Metering**

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

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

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

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

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

(Continued on Sheet No. 20.2)

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:  Janice Mitchell  
Title: CFO  
Date: 5/15/2023

**Florida Municipal Power Agency**

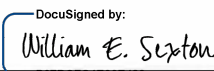
By:  John  
Title: VP of IT/OT and System Ops  
Date: 5/15/2023

**Customer**

By: SHEREE CLARK Date: 21 April 2023  
(Print Name)  
  
(Signature)

Customer's City of Ocala Electric Utility Account Number: 533594-238436

Approved as to form and legality:

 William E. Sexton  
William E. Sexton  
City Attorney

(Continued on Sheet No. 20.6)

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

Effective: October 1, 2019

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

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

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

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

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

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

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

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

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

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

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

Effective: October 1, 2019

## GODWIN ENGINEERING AND DESIGN, LLC

---

8378 Foxtail Loop, Pensacola, FL 32583 | (850)712-4219 | [chad@godwineng.com](mailto:chad@godwineng.com)

March 1, 2023

To: Marion County Building Safety Department  
2710 E Silver Springs Blvd,  
Ocala, FL 34471

Re: SHEREE ANNE CLARK  
1980 SW 40TH PL  
OCALA, FL 34471

To whom it may concern,

- A. This letter is to inform the inspector of the amendment to the proposed Solar PV system at the address above.

### Discrepancy

1. Please switch this to use URE 400 and move all panels to the roof

### Corrections:

1. Switched the Panel to FBM400MFG-BB and Updated the plan set with new layout.

Please contact me if you have any questions.

Sincerely,

D. Chad Godwin, PE 81360  
Exp. 2/28/25

Donnie C  
Godwin  
2023.03.  
01  
10:46:40  
'00'06-





## GODWIN ENGINEERING AND DESIGN, LLC

---

8378 Foxtail Loop, Pensacola, FL 32526 | (850)712-4219 | [chad@godwineng.com](mailto:chad@godwineng.com)

March 1, 2023

**To:** Marion County Building Safety  
2710 E. Silver Springs Blvd.  
Ocala, FL 34470

**Re:** Sheree Anne Clark – Residential PV Roof Mount Installation  
1980 SW 40th Pl  
Ocala, FL 34471

Plan Reviewer,

This letter is regarding the installation of a new roof mounted Solar PV System on the existing residential structure at the address above. I have reviewed the attachment plan and have determined that the roof mounted PV system is in compliance with the applicable sections of the following Codes as amended and adopted by the jurisdiction:

2020 Florida Building Code 7<sup>th</sup> Edition, FBC  
ASCE 7 Min. Design Loads for Buildings & Other Structures

Per 2020 FBC, the Roof Mounted PV system will be subject to the following design criteria:  
Design Wind Speed ( $V_{ult}$ ) - 140mph 3sec gust, Exposure Category – B

The PV System consist of the modules, railing, and connection hardware. The system will add a dead load of approximately 3 psf to the roof.

The existing roof covering is Asphalt Shingles with min. ½" plywood decking and 2" x 4" roof trusses 24" O.C. The roofing, decking, and roof trusses are in good condition. The existing structure will be adequate for supporting the additional PV dead load and wind loads.

The securement method of the PV system is to be flush mounted to the Asphalt Shingles roof with the Iron Ridge XR-10 railing and flashings/attachments. The attachments can be attached up to 72" apart in roof zones 1, 2e, 2r & 3. The mounts should be staggered, where possible, to allow distribution of the design loads evenly to the structure. The mounts shall be installed with a 5/16" x 4.25" stainless steel Lag bolts with minimum 2-5/16" thread length directly to roof truss.

Please see attached documents and contact me should you have any questions.

Sincerely,

D. Chad Godwin, PE 81360  
Exp. 02/28/2025

Donnie C  
Godwin

2023.03.0

1

10:47:59

'00'06-



THIS ITEM HAS BEEN ELECTRONICALLY  
SIGNED AND SEALED BY DONNIE CHAD  
GODWIN USING A DIGITAL SIGNATURE AND  
DATE. PRINTED COPIES OF THIS DOCUMENT  
ARE NOT CONSIDERED SIGNED AND SEALED  
AND THE SIGNATURE MUST BE VERIFIED ON  
ANY ELECTRONIC COPIES

ASCE 7-16 CHAPTER 29 WIND LOADS - Rooftop Solar Panels Minimum Design Loads - Part 1: Enclosed[Gable,Hip,Flat h<60ft, 0°<θ<45°]

Wind Load Parameters - Inputs

Risk CategoryII

Table 1.5-1

Basic Wind Speed (U<sub>int</sub>)140

mph

Figure 26.5-1B

Roof Angle21° to 27°

Roof TypeHip

Exposure Cat. B, C, or D

Section 26.7

Mean Roof Height h

15.00

ft

Roof attachment

5/16" x 4" Lag Screw

Rafter/Truss Spacing

24

in O.C.

No. of Rafts

2

No. of Modules - Portrait

40

No. of Modules - Landscape

0

Module Model Number

F8M\_MFG-88 / 108-390-405

Buildg. least horizontal dim. (typ.)

360

in

Elevation

<1000

ft

Est. # of attachment points

64

Wind Load Parameters

Wind Speed (asd)

108

mph

FRC R301.2.1.3

Effective Wind Area

21.01

ft<sup>2</sup>

26.20

Wind Directionality

K<sub>d</sub>

0.85

Table 26.6-1

Topographic Factor

K<sub>t</sub>

1.00

26.8 or 26.8.2

Ground Elevation Factor

K<sub>e</sub>

1.00

Table 26.9-1

Velocity Exposure Coefficient

K<sub>z</sub>

0.57

Table 26.10-1

Array Edge Factor

C<sub>e</sub>

1.50

29.4.4 \* Modules are considered Exposed

Solar Panel Equalization Factor

C<sub>u</sub>

0.67

Fig. 29.4-8

Velocity Pressure

q<sub>s</sub>

14.59

psf

c<sub>p</sub> = 0.00256 K<sub>z</sub>K<sub>e</sub>K<sub>d</sub>C<sub>u</sub>V<sup>2</sup>

Added Safety Factor

1.2

Allowable Pullout per mount

709.6

lbs

0.4h or 0.6h

6.00

ft

Flat = 0.6h, Gable, Hip = 0.4h

10% of least horizontal dim

3.00

ft

10% of least horiz. Dim. Or 0.4h, whichever is smaller, but not less than either 4% of least horiz. Or 3% (flat roof = 0.5h)

Roof Zone Set Back

3.00

ft

h<sub>1</sub>

5

in

Not > 1/2 panel height above roof

2h<sub>1</sub>

10

in

Min distance array shall be from the roof edge, Gable Ridge, or Hip ridge

c1

0.25

in

Min gap between all panels but not > 6 ft

d1

1.00

ft

Horizontal distance perpendicular to panel edge

d2

0.25

ft

Horizontal distance from edge of one panel to the nearest edge in the next row

0.5h

7.50

ft

\* Modules are considered exposed that are within 1.5h from roof edge

PV Dead Load

# of Modules

40

Module

W<sub>mod</sub>

18

lbs

Array

W<sub>mod</sub>

1914

lbs

Micro/optimizer

W<sub>mod</sub>

160

lbs

PV Rail

W<sub>PV rail</sub>

31

lbs

Total Weight

W<sub>total</sub>

2104

lbs

Total Area

A<sub>c</sub>

840.53

ft<sup>2</sup>

Dead Load

D<sub>ov</sub>

2.50

psf

Weight/attachment

32.9

lbs

Module and Racking Specs

Dimensions, LxWxH (in)

67.83 x 44.61 x 1.39

Width

3.72

ft

Length

5.65

ft

Module Area

21.01

ft<sup>2</sup>

Module load ratings

Ultimate

Allowable

Load Rating - Snow (psf)

113.4

75.6

Load Rating - Wind (psf)

-50.4

33.6

PV Attachment - Results

Roof Zones - Hip 21° to 27°

1

2e

2f

3

GC<sub>u</sub> - Uplift

-1.3

-1.3

-1.8

-1.8

GC<sub>d</sub> - Down

0.7

0.7

0.7

0.7

p = q<sub>s</sub>(GC<sub>u</sub>)(K<sub>z</sub>)(K<sub>e</sub>)(K<sub>d</sub>)(C<sub>e</sub>)(C<sub>u</sub>)

-16.6

-23.9

-23.9

-23.9

p = q<sub>s</sub>(GC<sub>d</sub>)(K<sub>z</sub>)(K<sub>e</sub>)(K<sub>d</sub>)(C<sub>e</sub>)(C<sub>u</sub>)

10.3

10.3

10.3

10.3

Max Allowable Span

6

6

6

6

Max Cantilever (in)

24

24

24

24

psf

29.4-7

psf

29.4-7

ft

\*notes

Max span \* 33% (in)

Eq.1 Point Load = Roof Zone psf \* A<sub>mod</sub>

Eq.2 A<sub>mod</sub> = (Module Length / 2) \* Max Span

Eq.3 \*Max span Equation, SF = Allowable pullout / Point Load

Eq.4 Max Span = Allowable Pullout / (SF \* Roof Zone psf \* L/2)

a) The Max span between attachment points must not exceed the rail spans provided by racking manufacture.

b) Allowable Module load ratings are determined by SF = 1.5

Donnie C  
Godwin  
2023.03.0  
10:48:09 1  
'00'06-

THIS ITEM HAS BEEN ELECTRONICALLY  
SIGNED AND SEALED BY DONNIE CHAD  
GODWIN USING A DIGITAL SIGNATURE AND  
DATE. PRINTED COPIES OF THIS DOCUMENT  
ARE NOT CONSIDERED SIGNED AND SEALED  
AND THE SIGNATURE MUST BE VERIFIED ON  
ANY ELECTRONIC COPIES

FRONT OF HOUSE



Inverter Type: (40) Enphase IQ8A-72-2-US  
PV Panel: (40) FBM400MFG-BB  
Racking: Iron Ridge XR-100  
Total Wallage: 16,000W DC  
Roof Type: Composition Shingle  
Wind Load: 21 to 27 Deg  
Fastener Type: Use 5/16" Dia 4.25" Lags

Sheet Index

- S-1 Cover Sheet / Site Plan
- S-2 Detail
- E-1 One - Line
- E-2 Electrical Code
- S-1A Mounting Plan

General Notes:  
-Enphase IQ8A-72-2-US Micro Inverters are located on roof behind each module.  
-First responder access maintained and from adjacent roof.  
-Wire run from array to connection is 40 feet.

**ALL AMERICAN SOLAR**  
1060 East Industrial Dr, Suite A  
Orange City, FL 32763  
386-218-6930

**Legend**

- Ground Access
- Utility Meter
- PV Disconnect
- 1'-6" First responder access
- Chimney
- Satellite
- Vent Pipe

Meets the requirements of the following- (2020 FL Residential Code & FBC, 7th Edition (2020 International Residential Code) - 2nd Printing modified by the FL Building Standards, 2020 Florida Building Energy Conservation Code 7th edition, County of Marion Code, 2017 National Electric Code.)

Meets All Editions of Florida Fire Prevention Code 2020 7th Edition  
Meets all requirements of 2018 Editions of NFPA-1 and NFPA-101

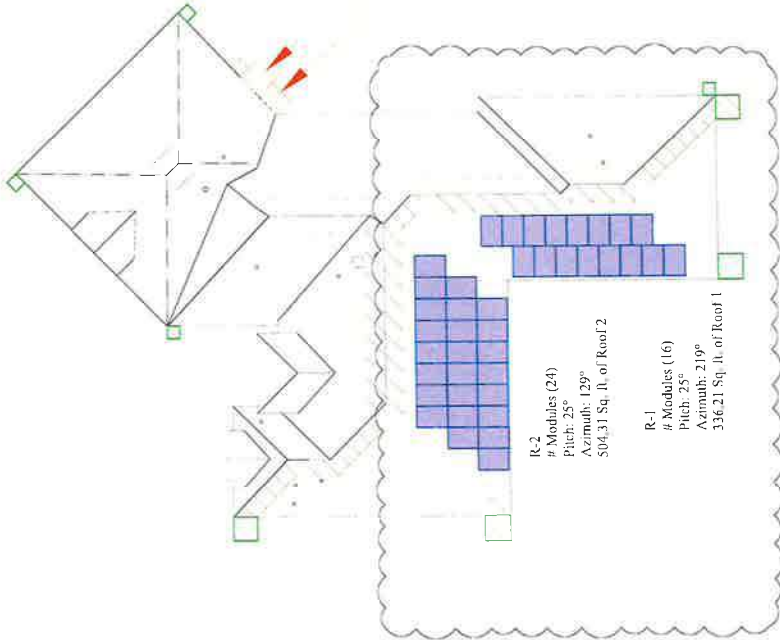
**3' Access Pathway**

1st Responder Access  
minimum of 36" unobstructed as per  
Section R324 of the 2020 IRC

Represents all Fire Clearance  
including Alternative methods

Customer Info:

SHEREE ANNE CLARK  
1980 SW 40TH PL  
OCALA, FL  
34471



-COGEN Disconnect  
Located adjacent to  
Utility meter

R-2  
# Modules (24)  
Pitch: 25°  
Azimuth: 129°  
504.31 Sq. Ft. of Roof 2

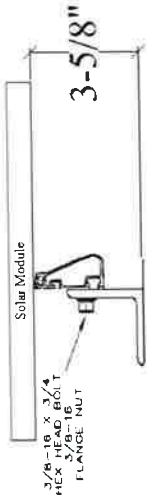
R-1  
# Modules (16)  
Pitch: 25°  
Azimuth: 219°  
336.21 Sq. Ft. of Roof 1



Layout Subject to Change Based on Site Conditions

Godwin Engineering and Design, LLC 8378 Foxtail Loop Pensacola, FL 32526 D. Chad Godwin, PE Chad@godwineng.com	Donnie C Godwin
	2023.03.01
	10:46:54
	'00'06-
Date: 9/10/2022	Drawn by: PS
Revised by: SK	Rev #: 02
Rev Date: 2/28/2023	Page: 11"x17" S-1

Compass for Aerial



Iron Ridge FlashVue



Ironridge XR-100

- General Notes:
- L Feet are secured to roof rafters.
  - @ 72" O.C. in Zone 1, @ 72" O.C in Zone 2e,
  - @ 72" O.C. in Zone 2r & @ 72" O.C in Zone 3
  - using 5/16" x 4.25" stainless steel Lag bolts.
  - Subject roof has One layer.
  - All penetrations are sealed and flashed.

Roof Section	Pitch	Roof Rafter and Spacing	Overhang	Notes:
R1-R2	6/12	2"x4" @ 24 O.C.	12"	Truss

**-Roof Height 15'**  
**-Per 2020 FBC, the Roof Mounted PV System will be subject to the following design criteria:**  
**Design Wind Speed(Vult) - 140mph 3 sec gust,**  
**Exposure Category - B**  
**-Designed as per ASCE7-16**

Inverter Type: (40)Enphase IQ8A-72-2-US  
PV Panel: (40) FBM400MFG-BB  
Racking: Iron Ridge XR-100  
Total Wattage: 16,000W DC  
Roof Type: Composition Shingle  
Wind Load: 21 to 27 Deg  
Fastener Type: Use 5/16" Dia 4.25" Lags

**Customer Info:**  
  
SHEREE ANNE CLARK  
1980 SW 40TH PL,  
OCALA, FL  
34471

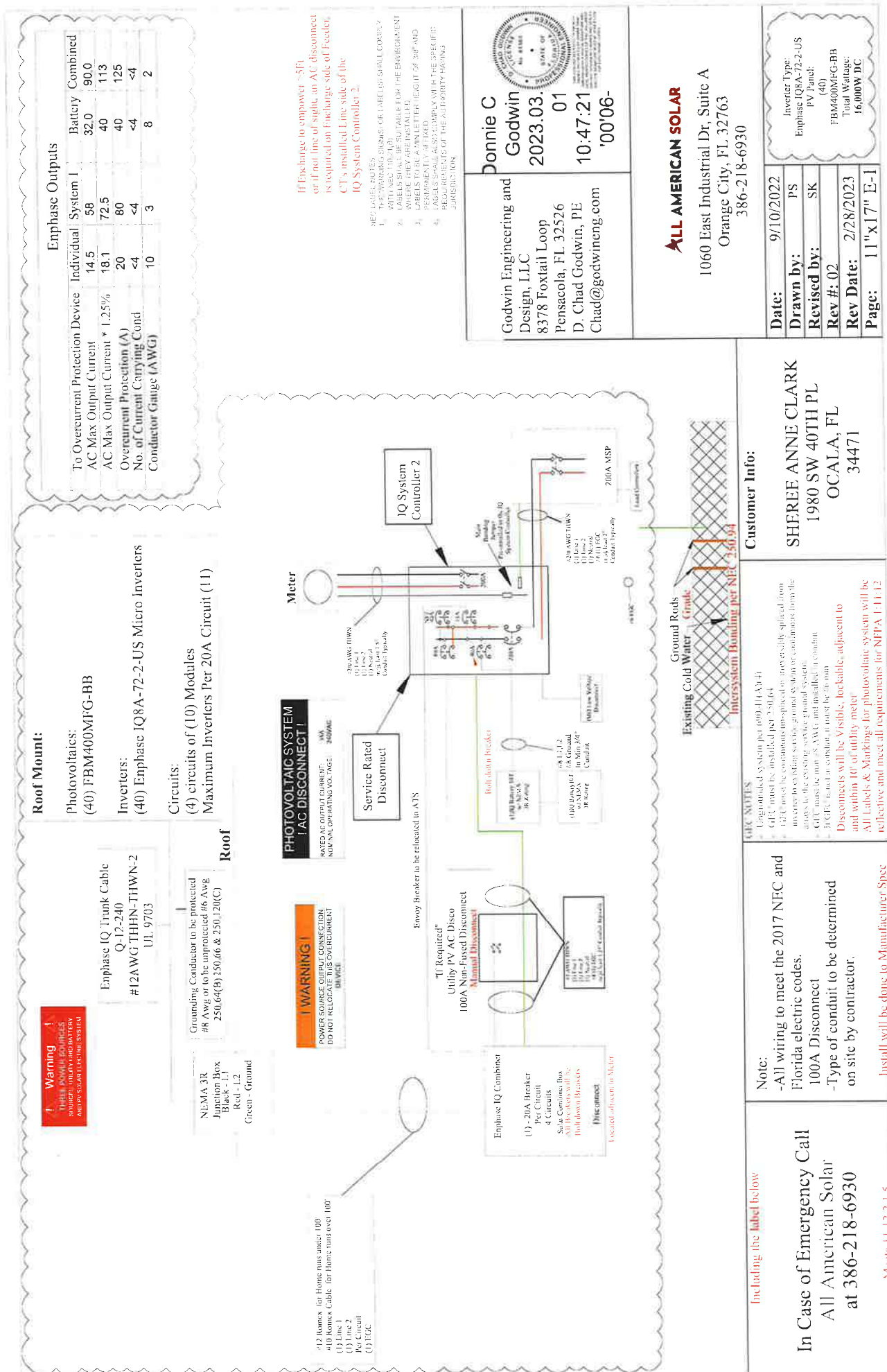
Godwin Engineering and Design, LLC  
8378 Foxtail Loop  
Pensacola, FL 32526  
D. Chad Godwin, PE  
Chad@godwineng.com

**Donnie C Godwin**  
2023.03.01  
10:47:05  
'00'06-

**ALL AMERICAN SOLAR**  
1060 East Industrial Dr, Suite A  
Orange City, FL 32763  
386-218-6930

Date:	9/10/2022
Drawn by:	PS
Revised by:	SK
Rev #: 02	
Rev Date:	2/28/2023
Page:	11"X17" S-2

Install will be done to Manufacturer Spec





System meets the grounding requirements of NEC 690.43

The Placard shall be permanently mounted, and shall be made of self-weatherproof, hard plastic, with engraved white block lettering. 690.56(B) and NEC 705.10

In compliance with NEC 250.58, NEC 690.8, NEC 250.24, NEC 250.24(D) Per Code NEC 690.12

Conductors have a minimum ampacity of 60 amperes per Code NEC 705.22(7) Per Code NEC 230.79(D)

Everything will be built to Code without all specifics labeled on NEC System is in compliance with FPEC 1:11.12.7th Edition.

Smoke Detectors will be added as per FBC 553.883 All Exterior equipment is a minimum of Nema-3 Rated Markings shall be placed on all DC Conductors, DC Combiners, Raceways, Enclosures, Junction Boxes, and Cable Assemblies at every 10' turns, and above and below penetrations in compliance with NFPA

Disconnect means shall be provided for all disconnecting all ungrounded conductors that supply or pass through the building or structure Per Code 2017 NEC Section 225.31 & Section 225.32

E04. Construction documents specify PV system circuits installed on or in buildings include a rapid shutdown function that controls specific conductors in accordance with NEC article 690.12.

E05. These construction documents specify that a label is provided with the method to initiate rapid shut down per 690.12(4).

E06. Construction drawings specify buildings or structures with both utility service and a PV system, complying with NEC article 690.12 shall have a permanent plaque or directory including the following wording: "PHOTO VOLTAGE SYSTEM EQUIPPED WITH RAPID SHUTDOWN" as per NEC article 690.55 (C).

E07. Construction documents specify PV power circuit labels shall appear on every section of the wiring system that is separated by enclosures, walls, partitions, ceilings, or floors.

E08. Construction documents specify all warning signs or labels shall comply with NEC article 110.21 (B). Labels shall be permanently affixed to the equipment, and Labels required shall be suitable for the environment.

Combined Output Ckt		To Overcurrent Protection Device	
Design Temperature (T)	85°F	85°F	310.15(8)(2)(a)
Max. Temp. Range (T)	75°C	75°C	
Temp. Rating of Conductors (T)	75°C	75°C	310.15(8)(3)(a)
Current Carrying Capacity	56A	56A	690.8(A)(1)
AC Max. Output Current	56A	56A	690.8(B)
Overcurrent Protection (A)	56A	56A	310.15(8)(2)(a)
Amp. Temp. Correction Factor	0.94	0.94	310.15(8)(3)(a)
Raceway Fill Adjustment Factor	100%	100%	310.15(8)(3)(a)
Wire Size (AWG)	4	4	310.15(8)(3)(a)
Cable Allowable Ampacity (A)	60A	60A	690.8(A)(1)
Conductor Ampacity (A)	60A	60A	690.8(A)(1)
Emergency Check Per 690.8(B)(1)	Pass	Pass	690.8(A)(1)
Emergency Check Per 690.8(B)(2)	Pass	Pass	690.8(A)(1)

In compliance with 230.71  
Combiner box in compliance  
Per Code NEC 705.12  
4\* 20A < 125A  
\*No other loads to be added

In Case of Emergency Call  
All American Solar  
at 386-218-6930

Apply to Main Disconnect  
Permanent sticker added to disconnect

All Electrical Service Equipment shall be located at or above  
BFE - F or 8'00" NAVD

Labels will be placed  
in the correct location  
located adjacent to  
Meter on exterior wall

Labels will be placed  
in the correct location  
located adjacent to  
Meter on exterior wall

Labels will be placed  
in the correct location  
located adjacent to  
Meter on exterior wall

Labels will be placed  
in the correct location  
located adjacent to  
Meter on exterior wall

Labels will be placed  
in the correct location  
located adjacent to  
Meter on exterior wall

Labels will be placed  
in the correct location  
located adjacent to  
Meter on exterior wall

Labels will be placed  
in the correct location  
located adjacent to  
Meter on exterior wall

Labels will be placed  
in the correct location  
located adjacent to  
Meter on exterior wall

Labels will be placed  
in the correct location  
located adjacent to  
Meter on exterior wall

WARNING PHOTOVOLTAGE POWER SOURCE

DO NOT OPEN UNDER LOAD

WARNING THIS SERVICE METER IS ALSO SERVED BY A PHOTOVOLTAGE SYSTEM 705.12(B)(3)

WARNING POWER SOURCE OUTPUT CONNECTION DO NOT RELOCATE THIS OVERCURRENT DEVICE 705.12(B)(2)(3)(b)

WARNING PHOTOVOLTAGE POWER SOURCE NEC 690.31 (G)(3)

SOLAR PV SYSTEM EQUIPPED WITH RAPID SHUTDOWN

TURN RAPID SHUTDOWN SWITCH TO THE OFF POSITION TO SHUT DOWN PV SYSTEM AND REDUCE SHOCK HAZARD IN THE ARRAY

38 IN MIN. TEXT

38 IN MIN. TEXT

Figure 690.56(C)(1)(a) Label for PV Systems that Shut down the array and the conductors leaving the array

Donnie C Godwin Engineering and Design, LLC 8378 Foxtail Loop Pensacola, FL 32526 D. Chad Godwin, PE Chad@godwineng.com

2023.03.01 10:47:31 '00'06-

ALL AMERICAN SOLAR

1060 East Industrial Dr, Suite A Orange City, FL 32763 386-218-6930

Investor Type: Enphase IQ8A-72-2-US PV Panel: (40) PHM400MFG-BB Total Wattle: 16,000W DC

WARNING PHOTOVOLTAGE POWER SOURCE

DO NOT OPEN UNDER LOAD

WARNING THIS SERVICE METER IS ALSO SERVED BY A PHOTOVOLTAGE SYSTEM 705.12(B)(3)

WARNING POWER SOURCE OUTPUT CONNECTION DO NOT RELOCATE THIS OVERCURRENT DEVICE 705.12(B)(2)(3)(b)

WARNING PHOTOVOLTAGE POWER SOURCE NEC 690.31 (G)(3)

SOLAR PV SYSTEM EQUIPPED WITH RAPID SHUTDOWN

TURN RAPID SHUTDOWN SWITCH TO THE OFF POSITION TO SHUT DOWN PV SYSTEM AND REDUCE SHOCK HAZARD IN THE ARRAY

38 IN MIN. TEXT

38 IN MIN. TEXT

WARNING PHOTOVOLTAGE POWER SOURCE

DO NOT OPEN UNDER LOAD

WARNING THIS SERVICE METER IS ALSO SERVED BY A PHOTOVOLTAGE SYSTEM 705.12(B)(3)

WARNING POWER SOURCE OUTPUT CONNECTION DO NOT RELOCATE THIS OVERCURRENT DEVICE 705.12(B)(2)(3)(b)

WARNING PHOTOVOLTAGE POWER SOURCE NEC 690.31 (G)(3)

SOLAR PV SYSTEM EQUIPPED WITH RAPID SHUTDOWN

TURN RAPID SHUTDOWN SWITCH TO THE OFF POSITION TO SHUT DOWN PV SYSTEM AND REDUCE SHOCK HAZARD IN THE ARRAY

38 IN MIN. TEXT

38 IN MIN. TEXT

WARNING PHOTOVOLTAGE POWER SOURCE

DO NOT OPEN UNDER LOAD

WARNING THIS SERVICE METER IS ALSO SERVED BY A PHOTOVOLTAGE SYSTEM 705.12(B)(3)

WARNING POWER SOURCE OUTPUT CONNECTION DO NOT RELOCATE THIS OVERCURRENT DEVICE 705.12(B)(2)(3)(b)

WARNING PHOTOVOLTAGE POWER SOURCE NEC 690.31 (G)(3)

SOLAR PV SYSTEM EQUIPPED WITH RAPID SHUTDOWN

TURN RAPID SHUTDOWN SWITCH TO THE OFF POSITION TO SHUT DOWN PV SYSTEM AND REDUCE SHOCK HAZARD IN THE ARRAY

38 IN MIN. TEXT

38 IN MIN. TEXT

WARNING

ELECTRIC SHOCK HAZARD DO NOT TOUCH TERMINALS OR CONDUCTORS WHILE THE SYSTEM IS ENERGIZED AND LOADS MAY BE ENERGIZED IN THE OPEN POSITION

EMERGENCY RESPONDER THIS SOLAR PV SYSTEM IS EQUIPPED WITH RAPID SHUTDOWN

TURN RAPID SHUTDOWN SWITCH TO THE OFF POSITION TO SHUT DOWN THE ENTIRE PV SYSTEM

Customer Info:

SHEREE ANNE CLARK 1980 SW 40TH PL OCALA, FL 34471

In Case of Emergency Call All American Solar at 386-218-6930

Plans Satisfy NEC 250.94 & NEC 250.53(A)(2)

Customer Info:

SHEREE ANNE CLARK 1980 SW 40TH PL OCALA, FL 34471

In Case of Emergency Call All American Solar at 386-218-6930

Plans Satisfy NEC 250.94 & NEC 250.53(A)(2)

Customer Info:

SHEREE ANNE CLARK 1980 SW 40TH PL OCALA, FL 34471

In Case of Emergency Call All American Solar at 386-218-6930

Plans Satisfy NEC 250.94 & NEC 250.53(A)(2)

Customer Info:

SHEREE ANNE CLARK 1980 SW 40TH PL OCALA, FL 34471

In Case of Emergency Call All American Solar at 386-218-6930

Plans Satisfy NEC 250.94 & NEC 250.53(A)(2)

Customer Info:

SHEREE ANNE CLARK 1980 SW 40TH PL OCALA, FL 34471

In Case of Emergency Call All American Solar at 386-218-6930

Plans Satisfy NEC 250.94 & NEC 250.53(A)(2)

Install will be done to Manufacturer Spec



Plans satisfy zones 1-BC - 1510 71  
Install will be done to Manufacturer Spec

Godwin Engineering and  
Design, LLC  
8378 Foxtail Loop  
Pensacola, FL 32526  
D. Chad Godwin, PE  
Chad@godwineng.com

Donnie C  
Godwin  
2023.03.  
01  
10:47:43  
'00'06-

**ALL AMERICAN SOLAR**

1060 East Industrial Dr, Suite A  
Orange City, FL 32763  
386-218-6930

**Customer Info:**

SHEREE ANNE CLARK  
1980 SW 40TH PL  
OCALA, FL  
34471

(40) Inphase IQ8A-72-2-US  
(40) FBM400MFG-BB  
Iron Ridge XR-100  
16,000W DC  
Composition Shingle  
21 to 27 Deg  
Use 5/16" Dia 4.25" Lags

Max cantilever is 24" as per manufacturer spec.  
 Max Cantilever =  $\text{Max Span} * (\frac{1}{3}) = 72" * (\frac{1}{3}) = 24"$   
 Max cantilever is 24" as per manufacturer spec.  
 Max Cantilever =  $\text{Max Span} * (\frac{1}{3}) = 72" * (\frac{1}{3}) = 24"$   
 Max cantilever is 24" as per manufacturer spec.  
 Max Cantilever =  $\text{Max Span} * (\frac{1}{3}) = 72" * (\frac{1}{3}) = 24"$   
 Max cantilever is 24" as per manufacturer spec.  
 Max Cantilever =  $\text{Max Span} * (\frac{1}{3}) = 72" * (\frac{1}{3}) = 24"$   
 Max cantilever is 24" as per manufacturer spec.  
 Max Cantilever =  $\text{Max Span} * (\frac{1}{3}) = 72" * (\frac{1}{3}) = 24"$



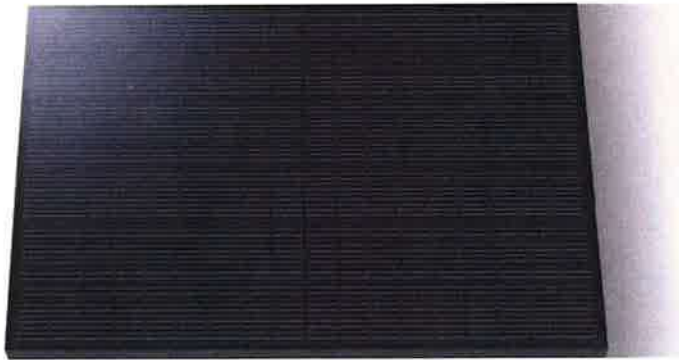
## FBM400MFG-BB / 108 cells 400 Watt Mono-Crystalline PV Module

URE modules use state-of-the-art cutting technology, and advanced module manufacturing experience to provide leading power density and long term reliability.



### Key Features

- At 400 Watts and 20.49% Efficiency URE Solar Panels are Industry Leaders in Output and Efficiency
- 25 Year Output Warranty and 25 Year Product Guarantee
- Super All Black Design with more Uniform Appearance for High Profile Residential Installations
- High Quality Solar Cell Technology allows URE to be a major international exporter to Solar Module manufacturers in the United States and Europe
- Excellent Performance in Low Light and Poor Weather Conditions to Maximize Energy Harvest
- Winner of Taiwan Excellence Award 7
- Consecutive Years for Highest Efficiency Module



### THE IDEAL SOLUTION FOR:

- Rooftop arrays on residential buildings
- Residential ground mount arrays



For more information, please visit us at [www.ureusa.com](http://www.ureusa.com)

Copyright © 2016 URE Corp. All Rights Reserved



### Electrical Data

Model - STC	FBM390MFG-BB	FBM395MFG-BB	FBM400MFG-BB	FBM405MFG-BB
Maximum Rating Power (Pmax)	[W]	390	395	405
Module Efficiency	[%]	19.98	20.23	20.75
Open Circuit Voltage (Voc)	[V]	36.84	37.03	37.36
Maximum Power Voltage (Vmp)	[V]	30.82	31.00	31.36
Short Circuit Current (Isc)	[A]	13.50	13.59	13.78
Maximum Power Current (Imp)	[A]	12.66	12.75	12.92

\*Standard Test Condition: (STC) Cell Temperature 25°C, Irradiance 1000 W/m<sup>2</sup>, AM 1.5

\*Values without tolerance are tolerance numbers. Measurement tolerance: ± 1%

### Mechanical Data

Item	Specification
Dimensions	1723 mm (L) x 1133 mm (W) x 35 mm (D) / 67.83" (L) x 44.63" (W) x 1.38" (D)
Weight	21.7 kg / 47.80 lbs
Solar Cell	12x9 pieces monocrystalline solar cells series strings
Front Glass	White toughened safety glass, 3.2mm thickness
Cell Encapsulation	EVA (Ethylene Vinyl Acetate)
Frame	Black anodized Aluminum profile
Junction Box	IP20, 60, 3 loads
Cable & Connector	Purflat: 1200 mm (cable length can be customized), 1 x 4 mm <sup>2</sup> compatible with MC4

Package Configuration: 31 pcs Per Pallet, 805 pcs per 40' HQ container

1. With assembly tolerance of ± 2 mm (± 0.08")

2. With assembly tolerance of ± 0.8 mm (± 0.03")

### Operating Conditions

Item	Specification
Mechanical Load	5400 Pa
Maximum System Voltage	1000V
Series Fuse Rating	30 A
Operating Temperature	-40 to 85 °C

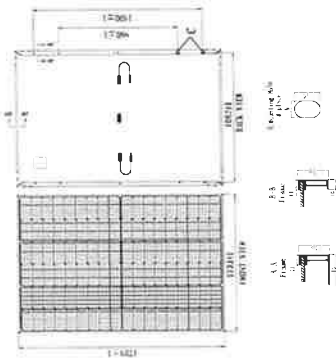
### Temperature Characteristics

Item	Specification
Nominal Module Operating Temperature	45°C ± 2°C
Temperature Coefficient of Isc	0.048 % / °C
Temperature Coefficient of Voc	-0.27 % / °C
Temperature Coefficient of Pmax	-0.32 % / °C

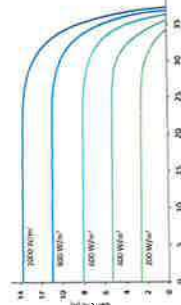
\*Nominal module operating temperature (NMOT): Air mass AM 1.5, irradiance 800W/m<sup>2</sup>, temperature 20°C, wind speed 1 m/s

\*Reduct on in efficiency from 1000W/m<sup>2</sup> to 400W/m<sup>2</sup> at 25°C 3 ± 2%

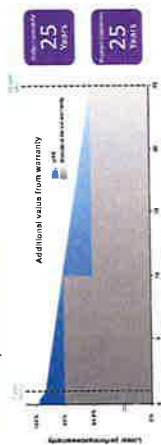
### Engineering Drawing (mm)



### Dependence on Irradiance



### Reliability with Warranty

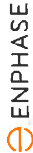


For more information, please visit us at [www.ureusa.com](http://www.ureusa.com)

Copyright © 2016 URE Corp. All Rights Reserved



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 grid-tied or off-grid modes. This chip is built in advanced 55nm technology with high speed digital logic and has super-fast response times to changing loads and grid events, alleviating constraints on battery sizing for home energy systems.



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



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



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 Shut Down Equipment and conform with various regulations, when installed according to manufacturer's instructions.

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

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

- Microgrid-forming**
- Complies with the latest advanced grid support\*\*
  - Remote automatic updates for the latest grid requirements
  - Configurable to support a wide range of grid profiles
  - Meets CA Rule 21 (UL 1741-SA) requirements

\* Only when installed with IQ System Controller 2, meets UL 1741  
\*\* IQ8M and IQ8A supports split phase, 240V installations only.

## IQ8M and IQ8A Microinverters

INPUT DATA (IST)		IQ8M-72-2-015	IQ8A-72-2-015
Commonly used module ratings <sup>1</sup>	W	260 – 460	295 – 500
Module compatibility		60 cell/120 half-cell, 66-cell/32 half-cell and 72-cell/144 half-cell	36 – 45
MPPT voltage range	V	33 – 45	
Operating range	V		25 – 58
Min/max start voltage	V		30 / 58
Max input DC voltage	V		60
Max DC current <sup>2</sup> [module Isc]	A		15
Overvoltage class DC port	A		II
DC port backfeed current	A		0
PV array configuration		1x UL1994 grounded array. No additional DC side protection required. AC side protection requires max 20A per branch circuit.	
OUTPUT DATA (M)		IQ8M-72-2-015	IQ8A-72-2-015
Peak output power	W	330	366
Max continuous output power	W	325	340
Nominal (L-L) voltage / range <sup>3</sup>	V		240 / 211 – 264
Max continuous output current	A	1.35	1.45
Nominal frequency	Hz		60
Extended frequency range	Hz		50 – 68
AC short circuit fault current over 3 cycles	Amps		2
Max units per 20 A (L-L) branch circuit <sup>4</sup>			II
Total harmonic distortion	%		<5%
Overvoltage class AC port	III		
AC port backfeed current	A		30
Power factor setting	LO		0.85 leading – 0.85 lagging
Grid-tied power factor (adjustable)			
Peak efficiency	%	97.6	97.6
CEC weighted efficiency	%	97	97.5
Night-time power consumption	mW		60
MECHANICAL DATA			
Ambient temperature range		-40°F to +60°C (-40°F to +140°F)	
Relative humidity range		4% to 100% (noncondensing)	
DC Connector type		MC4	
Dimensions (HxWxD)		212 mm (8.3") x 175 mm (6.9") x 30.2 mm (1.2")	
Weight		1.08 kg (2.38 lbs)	
Cooling		Natural convection – no fans	
Approved for wet locations		Yes	
Pollution degree		PD3	
Enclosure		Class II double insulated, corrosion-resistant polymeric enclosure	
Envision category / UV exposure rating		NEMA type 6 / outdoor	
COMPLIANCE		CA Rule 21 (UL 1741-SA), UL 82109-1, UL 1741/IEEE1547, FCC Part 15 Class B, ICES-0003 Class B, CAN/CSA-C22.2 NO. 1074-01	
Certification		This product is UL Listed as PV Rapid Shut Down Equipment and conforms with NEC 2014, NEC 2017, and NEC 2020 sections 680.12 and G221-2018 Rule 64. 218 Rapid Shutdown of PV Systems, for AC and DC conductors, when installed according to manufacturer's instructions.	

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



Enphase  
IQ Battery 10T

The **Enphase IQ Battery 10T** all-in-one AC-coupled storage system is **reliable, smart, simple, and safe**. It is comprised of three base IQ Battery 3T storage units, has a total usable energy capacity of 10.08 kWh and twelve embedded grid-forming microinverters with 3.84 kW power rating. It provides backup capability and installers can quickly design the right system size to meet the needs of both new and retrofit solar customers.

Reliable

- Proven high reliability IQ series microinverters
- Ten-years limited warranty, extendable to 15 years<sup>2</sup>
- Three independent IQ Battery base units
- Twelve embedded IQ6X-9AT microinverters
- Passive cooling (no moving parts/fans)

Smart

- Grid-forming capability for backup operation
- Remote software and firmware upgrade
- Mobile app-based monitoring and control
- Support for self consumption
- Utility time of use (TOU) optimization

Simple

- Fully integrated AC battery system
- Quick and easy plug-and-play installation
- Interconnects with standard household AC wiring

Safe

- Safety tested battery cells and module
- Lithium iron phosphate (LFP) chemistry for maximum safety and longevity



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

Enphase IQ Battery 10T

MODEL NUMBER		ENCHARGE-10T-1P-3A	
IQ Battery 10T battery storage system with integrated Enphase IQ series microinverters and battery management unit (BIMU). Includes: - Three IQ Battery 3T base units (B03101-0500-1-3) - One IQ Battery 10T cover kit with cover, wall mounting bracket, and interconnect cable for wiring between batteries (B101-C-1200-0)			
OUTPUT (AC)		@ 240 VAC <sup>1</sup>	
Rated (continuous) output power	3.84 kVA	5.76 kVA (10 seconds)	
Peak output power		240 / 211 ~ 264 VAC	
Nominal voltage / range		60 / 57 ~ 63 Hz	
Rated output current	16 A		
Peak output current	24.6A (10 seconds)		
Power factor (adjustable)	0.85 leading ~ 0.85 lagging		
Maximum units per 20 A branch circuit	1 unit (single phase)		
Interconnection	Single phase		
Maximum AC short circuit fault current over 3 cycles	69.6 kAms		
Round trip efficiency <sup>2</sup>	89%		
BATTERY			
Total capacity	10.5 kWh		
Usable capacity	10.08 kWh		
Round trip efficiency	96%		
Nominal DC voltage	67.2 V		
Maximum DC voltage	75.6 V		
Ambient operating temperature range	-15° C to 55° C (5° F to 131° F) non-condensing		
Optimum operating temperature range	0° C to 30° C (32° F to 86° F)		
Chemistry	Lithium iron phosphate (LFP)		
MECHANICAL DATA			
Dimensions (WxHxD)	1283 x 775 x 188 mm (50.5 x 30.5 x 7.4 in)		
Weight	Three individual AC 5 kg (99.3 lbs) base units plus 22.1 kg (48.7 lbs) cover and mounting bracket; total 143.6 kg (316.5 lbs)		
Enclosure	Outdoor ~ NEMA type 3R		
Cooling	Natural convection ~ No fans		
Altitude	Up to 2500 meters (8200 feet)		
Mounting	Wall mount		
FEATURES AND COMPLIANCE			
Compatibility	Compatible with grid-tied PV systems. Compatible with Enphase MP151/M250 and IQ Series Micros, Enphase IQ System Controller, and Enphase IQ Gateway for backup operation		
Communication	Wireless 2.4 GHz		
Services	Backup, self-consumption, TOU, Demand Charge, NEM Integrity		
Monitoring	Enphase Installer Platform monitoring options, API integration		
Compliance	UL 9540, UL 38.3, UL 1996, UL 991, NEMA Type 3R, AC156 UL 1540, UL 1687, UL 1745, Class B, IEC62103 Cell Module: UL 1973, UN 38.3 Inverters: UL 62109-1, IEC 62109-2, UL 1741SA, CAN/CSA C22.2 No. 107.1-16, and IEEE 1547		
LIMITED WARRANTY		>10% capacity, up to 10 years or 4000 cycles <sup>2</sup> , extendable to 15 years <sup>4</sup>	

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

© 2021 Enphase Energy, all rights reserved. Enphase, the Enphase logo, and Enphase IQ are trademarks of Enphase Energy.  
Enphase Energy is a registered trademark of Enphase Energy.







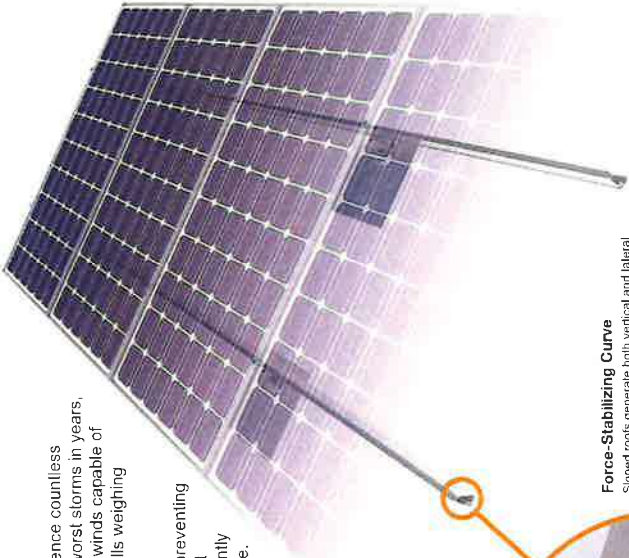
XR Rail Family

Tech Brief

Solar Is Not Always Sunny

Over their lifetime, solar panels experience countless extreme weather events. Not just the worst storms in years, but the worst storms in 40 years. High winds capable of ripping panels from a roof, and snowfalls weighing enough to buckle a panel frame.

XR Rails are the structural backbone preventing these results. They resist uplift, protect against buckling and safely and efficiently transfer loads into the building structure. Their superior spanning capability requires fewer roof attachments, reducing the number of roof penetrations and the amount of installation time.



Force-Stabilizing Curve

Sloped roofs generate both vertical and lateral forces on mounting rails which can cause them to bend and twist. The curved shape of XR Rails is specially designed to increase strength in both directions while resisting the twisting. This unique feature ensures greater security during extreme weather and a longer system lifetime.

Compatible with Flat & Pitched Roofs



XR Rails are compatible with Flat-roof and other pitched roof attachments.

Corrosion-Resistant Materials

All XR Rails are made of 6000-series aluminum alloy, then protected with an anodized finish. Anodizing provides surface and structural corrosion resistance, providing a more attractive appearance.



XR Rail Family

The XR Rail Family offers the strength of a curved rail in three targeted sizes. Each size supports specific design loads, while minimizing material costs. Depending on your location, there is an XR Rail to match.



XR10

XR10 is a sleek, low-profile mounting rail, designed for regions with light or no snow. It achieves spans up to 6 feet, while remaining light and economical.

- 6' spanning capability
- Moderate load capability
- Clear & black anodized finish
- Internal splices available



XR100

XR100 is the ultimate residential mounting rail. It supports a range of wind and snow conditions, while also maximizing spans up to 10 feet.

- 10' spanning capability
- Heavy load capability
- Clear & black anodized finish
- Internal splices available



XR1000

XR1000 is a heavyweight among solar mounting rails. It's built to handle extreme climates and spans up to 12 feet for commercial applications.

- 12' spanning capability
- Extreme load capability
- Clear anodized finish
- Internal splices available

Rail Selection

The table below was prepared in compliance with applicable engineering codes and standards.\* Values are based on the following criteria: ASCE 7-16, Gable Roof Flush Mount, Roof Zones 1 & 2e, Exposure B, Roof Slope of 8 to 20 degrees and Mean Building Height of 30 ft. Visit [IronRidge.com](http://IronRidge.com) for detailed certification letters.

Load		Rail Span					
		4'	6'	8'	10'	12'	
Snow (PSF)	90	XR10	XR100	XR1000			
	120						
	140						
	160						
20	90						
	120						
	140						
	160						
30	90						
	160						
40	90						
	160						
80	160						
	160						
120	160						

\*Values are meant to be a simplified guide only. They are not a substitute for professional engineering advice. Use applicable engineering codes and standards for actual design values.

AMERICAN STRATEGIC INSURANCE CORP  
P.O. Box 33018  
St. Petersburg, FL 33733-8018



### Premium Notice

SHEREE A CLARK  
1980 SW 40TH PL  
OCALA, FL 34471

Agent ID: 423774  
American Insurance Leaders Inc.  
337 Debary Ave  
Debary, FL 32713  
(386) 218-4963

Policy Type: Umbrella  
Policy Period: 10/24/2022  
Policy Number: FLU150964  
Property Address: 1980 SW 40TH PL  
OCALA, FL 34471-0148

Notice Date: 10/21/2022

Dear Policyholder,

According to our records, a payment is due on your policy. Please pay the amount shown below in order to continue coverage.

If you believe you have previously remitted payment, please contact your agent using the contact information listed above to verify that your payment has been posted to your account.

If the amount due shown below is \$0.00, please disregard this notice.

Thank you for allowing Progressive to serve your insurance needs. We appreciate your business!

Payor: SHEREE A CLARK  
1980 SW 40TH PL  
OCALA, FL 34471

**Make Checks Payable and Mail To:**

ASI  
P.O. Box 33018  
St. Petersburg, FL 33733-8018

If you would like to pay online, please visit:  
[www.progressive.com/manage-policy](http://www.progressive.com/manage-policy)

DETACH HERE AND RETURN BOTTOM PORTION WITH YOUR PAYMENT TO ASI IN ENVELOPE PROVIDED

Payment Choices Available:

Full Pay: \$210.00

Policy Number FLU150964

Insured SHEREE A CLARK

Agent American Insurance Leaders Inc.

Total Amount Due: \$210.00

Due Date: 10/24/2022

Print Date: 10/21/2022  
ASI PUP NEB 06 21

American Strategic Insurance Corp  
1 ASI Way  
St. Petersburg, FL 33702  
Phone: (727) 374-2502

**PROGRESSIVE**  
**UMBRELLA**

# Premises Only Liability Declarations Page

**Agent:**

American Insurance Leaders Inc.  
337 Debary Ave  
Debary, FL 32713

Agent Code: 423774

For Policy Service, Call: (386) 218-4963

Total Policy Premium: **\$210**

Policy Number: **FLU150964**

Plan Type: **UMB**

Policy Period: From: 10/24/2022 To: 10/24/2023

Effective Date of Transaction: 10/24/2022

Transaction Type: New Business

**Named Insured:**

SHEREE A CLARK  
1980 SW 40TH PL  
OCALA, FL 34471

**Premises Location(s):**

1980 SW 40TH PL, OCALA, FL 34471-0148

Coverage Limit: \$ 1,000,000

<b>Coverages</b>	<b>Limit</b>	<b>Premium</b>
Liability Base Premium	\$ 1,000,000	\$200.00
<b>Surcharges &amp; Discounts</b>		<b>Premium</b>
Desired Coverage Limit		\$0.00
Increased Underlying Property Liability		\$0.00
Territory Factor (UTM)		\$0.00
Premises Only Credit		(\$59.00)
Swimming Pool/Spas		\$40.00
Minimum Limit Premium Adjustment		\$0.00
Managing General Agent Fee		\$25.00
Florida Insurance Guaranty Association Fee		\$3.62
<b>TOTAL POLICY PREMIUM:</b>		<b>\$210.00</b>

**All Insureds:**

CLARK, SHEREE A.

**Policy Forms:**

Amendment of Policy Provisions - Florida

Premises Liability

Auto Liability Exclusion - Florida

Public Or Livery Conveyance Exclusion - Florida

Personal Umbrella Liability Policy

ASI PUP FL SP 10 20

ASI PUP 005 09 99

ASI PUP FL ALE 10 20

ASI PUP FL PCE 10 20

DL 98 01 06 98

**Additional Interest:**

*David L Pratt*

President

*Jana Bell*

Agent

**MARION COUNTY**  
**Building Safety Department**  
**BUILDING PERMIT**

**PERMIT #:** 2022093358

**ISSUED:** 11-01-2022

**PERMIT TYPE:** M18SOM18 SOLAR - PHOTOVOLTAIC E

**EXPIRATION:** 04-30-2023

**JOB DESCRIPTION:** SOLAR PHOTOVOLTAIC SYSTEM, ROOF MOUNT, SFR WITH BATTERY BACKUP

**JOB ADDRESS:** 1980 SW 40TH PL

**OWNER INFORMATION:**

CLARK SHEREE ANNE  
1980 SW 40TH PL

**CONTRACTOR INFORMATION:**

ALL AMERICAN SOLAR LLC  
1060 E INDOSTRD ROAD  
SUITE A

Ocala FL 344710148

ORANGE CITY FL 32763

**PARCEL NUMBER:** 2393-015-000

**SUBDIVISION:** OAK CREEK CAVERNS

**LCT:** 15

**BLOCK:**

**RANGE-TOWNSHIP-SECTION:** 21 - 15 - 36

**TOTAL SQFT:**

**NOC:** REQUIRED

**SETBACKS FRONT:**

**REAR:**

**LEFT:**

**RIGHT:**

This permit will become null and void if construction is not started and a passing inspection obtained within six (6) months.

**Notice: Demolition Permits are active for only (60) sixty days from the date of issuance.**

In addition to the requirements in this permit, there may be additional restrictions applicable to this property that may be found in the records of this county, and there may be additional permits required from other governmental entities such as water management districts, state agencies, or federal agencies. s:553.79(10),F.S.

It is the responsibility of the owner or Asbestos contractor to comply with the provisions of s.469.003 of the Florida Statutes and to notify the Department of Environmental Regulation of his/her intentions to remove asbestos, when applicable, in accordance with state and federal laws.

**CALL BEFORE YOU DIG: 1-800-432-4770**

**WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF  
COMMENCEMENT MAY RESULT IN YOUR PAYING TWICE FOR  
IMPROVEMENTS TO YOUR PROPERTY. A NOTICE OF COMMENCEMENT  
MUST BE RECORDED AT THE MARION COUNTY CLERK OF COURTS AND A  
CERTIFIED COPY FILED AT THE BUILDING DEPARTMENT, BEFORE THE  
FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH  
YOUR LENDER OR AN ATTORNEY BEFORE RECORDING YOUR NOTICE OF  
COMMENCEMENT. (F.S. 713.135)**

**ADDITIONAL PERMIT INFORMATION:**

10/11/22 APPROVED BY CAP- KEITH

10/5/22 Plans rejected by CAP Government and unfortunately requires a resubmittal. You may begin the resubmittal process by clicking the link sent by CAP Government via email to the address on file. - KEITH

9/30/22 SUBMITTED TO CAP FOR PLAN REVIEW - KEITH

For Inspections schedule online: <https://www.marioncountyfl.org/inspections>  
or call (352) 438-2400



4/13/23, 5:13 PM

Permits & inspections | Marion County, FL



Menu

# Inspections for Permit # 2022093358



☒ ALL ☐ REQUESTED ONLY ☐ RESULTED ONLY ☐ AVAILABLE TO REQUEST

CODE	DESCRIPTION	REQUEST DATE	RESULT DATE	RESULT
108	108 FINAL STRUCTURAL	4/13/2023	4/13/2023	(90) APPROVED
201	201 FINAL ELECTRIC WITH	4/13/2023	4/13/2023	(90) APPROVED
208	208 ROUGH ELECTRIC	4/13/2023	4/13/2023	(90) APPROVED

Permit Valid #

Which is the last 3 digits of permit number



Details Request Selected Cancel Selected Request New

12/02/23

**Certificate Of Completion**

Envelope Id: 5937190AB24142EFA60D7CE94240228F

Status: Completed

Subject: Tri-Party Net Metering Agreement (Sheree Clark) [ELE/230505]

Source Envelope:

Document Pages: 37

Signatures: 5

Certificate Pages: 5

Initials: 0

AutoNav: Enabled

Envelope Stamping: Enabled

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

Envelope Originator:

Savannah Lewis

110 SE Watula Avenue

City Hall, Third Floor

Ocala, FL 34471

slewis@ocalafl.org

IP Address: 216.255.240.104

**Record Tracking**

Status: Original

5/12/2023 4:28:46 PM

Holder: Savannah Lewis

slewis@ocalafl.org

Location: DocuSign

Security Appliance Status: Connected

Pool: StateLocal

Storage Appliance Status: Connected

Pool: City of Ocala - Procurement &amp; Contracting

Location: DocuSign

**Signer Events**

William E. Sexton

wsexton@ocalafl.org

City Attorney

City of Ocala

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

DocuSigned by:



B07DCFC4E86E429...

Signature Adoption: Pre-selected Style

Using IP Address: 216.255.240.104

**Timestamp**

Sent: 5/12/2023 4:39:27 PM

Viewed: 5/15/2023 1:55:05 PM

Signed: 5/15/2023 1:56:18 PM

**Electronic Record and Signature Disclosure:**

Not Offered via DocuSign

Janice Mitchell

jmittell@ocalafl.org

CFO

Security Level: Email, Account Authentication  
(None)

DocuSigned by:



55198B43858A4E1...

Signature Adoption: Pre-selected Style

Using IP Address: 216.255.240.104

Sent: 5/15/2023 1:56:19 PM

Viewed: 5/15/2023 3:04:45 PM

Signed: 5/15/2023 3:06:32 PM

**Electronic Record and Signature Disclosure:**

Accepted: 5/15/2023 3:04:45 PM

ID: f8e00d00-60a3-45d7-a3c4-1aa428f5b3e3

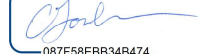
Chris Gowder

chris.gowder@fmpa.com

VP of IT/OT and System Ops

Security Level: Email, Account Authentication  
(None)

DocuSigned by:



087F58EBB34B474...

Signature Adoption: Uploaded Signature Image

Using IP Address: 38.77.131.2

Sent: 5/15/2023 3:06:34 PM

Viewed: 5/15/2023 3:23:48 PM

Signed: 5/15/2023 3:24:10 PM

**Electronic Record and Signature Disclosure:**

Accepted: 5/15/2023 3:23:48 PM

ID: 92cab2e5-9ec8-420b-9684-ab7e145970d3

**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	5/12/2023 4:39:27 PM
Certified Delivered	Security Checked	5/15/2023 3:23:48 PM
Signing Complete	Security Checked	5/15/2023 3:24:10 PM
Completed	Security Checked	5/15/2023 3:24:10 PM
Payment Events	Status	Timestamps
Electronic Record and Signature Disclosure		

## **ELECTRONIC RECORD AND SIGNATURE DISCLOSURE**

From time to time, City of Ocala - Procurement & Contracting (we, us or Company) may be required by law to provide to you certain written notices or disclosures. Described below are the terms and conditions for providing to you such notices and disclosures electronically through the DocuSign system. Please read the information below carefully and thoroughly, and if you can access this information electronically to your satisfaction and agree to this Electronic Record and Signature Disclosure (ERSD), please confirm your agreement by selecting the check-box next to 'I agree to use electronic records and signatures' before clicking 'CONTINUE' within the DocuSign system.

### **Getting paper copies**

At any time, you may request from us a paper copy of any record provided or made available electronically to you by us. You will have the ability to download and print documents we send to you through the DocuSign system during and immediately after the signing session and, if you elect to create a DocuSign account, you may access the documents for a limited period of time (usually 30 days) after such documents are first sent to you. After such time, if you wish for us to send you paper copies of any such documents from our office to you, you will be charged a \$0.00 per-page fee. You may request delivery of such paper copies from us by following the procedure described below.

### **Withdrawing your consent**

If you decide to receive notices and disclosures from us electronically, you may at any time change your mind and tell us that thereafter you want to receive required notices and disclosures only in paper format. How you must inform us of your decision to receive future notices and disclosure in paper format and withdraw your consent to receive notices and disclosures electronically is described below.

### **Consequences of changing your mind**

If you elect to receive required notices and disclosures only in paper format, it will slow the speed at which we can complete certain steps in transactions with you and delivering services to you because we will need first to send the required notices or disclosures to you in paper format, and then wait until we receive back from you your acknowledgment of your receipt of such paper notices or disclosures. Further, you will no longer be able to use the DocuSign system to receive required notices and consents electronically from us or to sign electronically documents from us.

### **All notices and disclosures will be sent to you electronically**

Unless you tell us otherwise in accordance with the procedures described herein, we will provide electronically to you through the DocuSign system all required notices, disclosures, authorizations, acknowledgements, and other documents that are required to be provided or made available to you during the course of our relationship with you. To reduce the chance of you inadvertently not receiving any notice or disclosure, we prefer to provide all of the required notices and disclosures to you by the same method and to the same address that you have given us. Thus, you can receive all the disclosures and notices electronically or in paper format through the paper mail delivery system. If you do not agree with this process, please let us know as described below. Please also see the paragraph immediately above that describes the consequences of your electing not to receive delivery of the notices and disclosures electronically from us.

### **How to contact City of Ocala - Procurement & Contracting:**

You may contact us to let us know of your changes as to how we may contact you electronically, to request paper copies of certain information from us, and to withdraw your prior consent to receive notices and disclosures electronically as follows:

To contact us by email send messages to: [contracts@ocalafl.org](mailto:contracts@ocalafl.org)

### **To advise City of Ocala - Procurement & Contracting of your new email address**

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

If you created a DocuSign account, you may update it with your new email address through your account preferences.

### **To request paper copies from City of Ocala - Procurement & Contracting**

To request delivery from us of paper copies of the notices and disclosures previously provided by us to you electronically, you must send us an email to [contracts@ocalafl.org](mailto:contracts@ocalafl.org) and in the body of such request you must state your email address, full name, mailing address, and telephone number. We will bill you for any fees at that time, if any.

### **To withdraw your consent with City of Ocala - Procurement & Contracting**

To inform us that you no longer wish to receive future notices and disclosures in electronic format you may:

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

### **Required hardware and software**

The minimum system requirements for using the DocuSign system may change over time. The current system requirements are found here: <https://support.docusign.com/guides/signer-guide-signing-system-requirements>.

### **Acknowledging your access and consent to receive and sign documents electronically**

To confirm to us that you can access this information electronically, which will be similar to other electronic notices and disclosures that we will provide to you, please confirm that you have read this ERSD, and (i) that you are able to print on paper or electronically save this ERSD for your future reference and access; or (ii) that you are able to email this ERSD to an email address where you will be able to print on paper or save it for your future reference and access. Further, if you consent to receiving notices and disclosures exclusively in electronic format as described herein, then select the check-box next to ‘I agree to use electronic records and signatures’ before clicking ‘CONTINUE’ within the DocuSign system.

By selecting the check-box next to ‘I agree to use electronic records and signatures’, you confirm that:

- You can access and read this Electronic Record and Signature Disclosure; and
- You can print on paper this Electronic Record and Signature Disclosure, or save or send this Electronic Record and Disclosure to a location where you can print it, for future reference and access; and
- Until or unless you notify City of Ocala - Procurement & Contracting as described above, you consent to receive exclusively through electronic means all notices, disclosures, authorizations, acknowledgements, and other documents that are required to be provided or made available to you by City of Ocala - Procurement & Contracting during the course of your relationship with City of Ocala - Procurement & Contracting.