

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: Glynnis Shamblen

Mailing Address: 1501 NE 37th Street

City: Ocala State: FL Zip Code: 34479

Phone Number: 352-875-5207 Alternate Phone Number: \_\_\_\_\_

Email Address: fcookie352@aol.com Fax Number: \_\_\_\_\_

Ocala Electric Utility Customer Account Number: 528288120282

**2. RGS Facility Information**

Facility Location: 1501 NE 37th Street, Ocala, FL 34479

Ocala Electric Utility Customer Account Number: \_\_\_\_\_

RGS Manufacturer: Enphase Energy, Inc.

Manufacturer's Address: 48281 Bayside Pkwy, Fremont, CA 94538

Reference or Model Number: Enphase IQ8PLUS-72-2-US

Serial Number: 202303012667

(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: 9.12 kW (AC) ("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: 4/22/2023

### 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

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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: Glenn Shambler  
(Print Name)

Date: 7/10/23

Glenn Shambler  
(Signature)

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Electric Utility Director

Effective: October 1, 2019

OCALA ELECTRIC UTILITY  
OCALA, FLORIDA

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

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

This **Agreement** is made and entered into this 3 day of July, 2023, by and between Glynnis Shamblen, (hereinafter called "**Customer**"), located at 1501 NE 37th Street in Ocala, Florida, and the City of Ocala doing business as Ocala Electric Utility (hereinafter called OEU), a body politic. Customer and OEU shall collectively be called the "**Parties**". The physical location/premise where the interconnection is taking place: 1501 NE 37th Street, Ocala, FL 34479.

#### **WITNESSETH**

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

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

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

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

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

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

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

(Continued on Sheet No. 21.1)

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

Effective: October 1, 2019



OCALA ELECTRIC UTILITY  
OCALA, FLORIDA  
(Continued from Sheet No. 21.0)

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

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

(Continued to Sheet No. 21.2)

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

Effective: October 1, 2019

Ocala Electric Utility  
Ocala, Florida  
(Continued from Sheet No. 21.1)

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

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

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

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

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

(Continued on Sheet No. 21.3)

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

Effective: October 1, 2019

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

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

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

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

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

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

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

(Continued on Sheet No. 21.4)

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

Effective: October 1, 2019

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

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

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

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

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

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

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

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

(Continued on Sheet No. 21.5)

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

Effective: October 1, 2019

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

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

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

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

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

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

(Continued to Sheet No. 21.6)

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

Effective: October 1, 2019

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

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

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

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

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

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

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

(Continued on Sheet No. 21.7)

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

Effective: October 1, 2019



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

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

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

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

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

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

(Continued on Sheet No. 21.8)

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Electric Utility Director

Effective: October 1, 2019

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

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

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

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

(Continued on Sheet No. 21.9)

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

Effective: October 1, 2019



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

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

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

City of Ocala Electric Utility:

Customer:

By: DocuSigned by:  
Jarvis Mitchell  
5730906433058A463

By: Glynnis Shamblen

Title: CFO

(Print Name)  
Glynnis Shamblen  
(Signature)

Date: 8/2/2023

Date: 7/10/23

City of Ocala Electric Utility Account Number:

528288120282

Approved as to form and legality:

DocuSigned by:  
William E. Sexton  
587DCECF4E8E426  
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 3 day of July, 20 23, 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 Glynnis Shamblen, 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:   
Title: CFO  
Date: 8/2/2023

**Florida Municipal Power Agency**

By:   
Title: VP of IT/OT and System Ops  
Date: 8/2/2023

**Customer**

By: Glynnis Shamblen Date: 7/10/23  
(Print Name)  
  
(Signature)

Customer's City of Ocala Electric Utility Account Number: 528288120282

Approved as to form and legality:

  
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.





# Farmers Florida Homeowners Declarations

**Policy Number:** 76409-33-90

**Effective:** 12/12/2022 12:01 AM

**Expiration:** 12/12/2023 12:01 AM

**Named Insured(s):** Glynis Shamblen

Glenn A Shamblen

1501 NE 37th St

Ocala, FL 34479-2419

fookie352@aol.com

**Residence:** 1501 NE 37th St

**Premises:** Ocala, FL 34479-2419

**Underwritten By:** Truck Insurance Exchange

6301 Owensmouth Ave.

Woodland Hills, CA 91367

## Premiums/Fees

Policy Premium \$1,357.63

Fees (\*also see information on Additional Fees below)

Expense Fee \$25.00

Florida Insurance Guaranty Association \$27.15

Regular Assessment

EMPATF Surcharge \$2.00

**Policy Premium and Fees \$1,411.78**

**The Hurricane portion of the Premium is \$1,064.81.**

**The Non-Hurricane portion of the Premium is \$292.82.**

**This is not a bill.**

Your bill with the amount due will be mailed separately.

## Description of Property

**Year of Construction** Construction Type

1981 Wood Siding Over Frame

**Roof Type**

Metal - Standing Seam

**Number of Units**

1

**Occupancy**

Owner

Occupied

(Primary

Resident)

## Property Coverage

**Coverage** Limit

Coverage A - Dwelling \$213,000

Coverage B - Separate Structures \$4,260

Building Ordinance or Law Coverage 25%

**Coverage**

Coverage C - Personal Property

Personal Property Replacement Cost \$53,250

Coverage D - Loss of Use \$42,600

Not Covered

## Liability Coverage

**Coverage** Limit

Coverage E - Personal Liability \$300,000

Personal Injury Not Covered

Increase of Loss Assessment \$1,000

**Coverage**

Coverage F - Guest Medical

Limit

\$1,000

## Optional Coverage

**Coverage** Limit

Identity Fraud Not Covered

Water Damage Exclusion See endorsement

FL027

**Coverage**

Limited Water Damage

Limit

\$10,000

farmers.com

Policy No. 76409-33-90

Questions?

Call your agent Christopher Talley at (941) 867-4843 or email

ctalley@farmersagent.com

Manage your account:

Go to [www.farmers.com](http://www.farmers.com) to access your account any time!

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

**PERMIT #:** 2023033479**ISSUED:** 04-19-2023**PERMIT TYPE:** M18SOM18 SOLAR - PHOTOVOLTAIC E **EXPIRATION:** 10-16-2023**JOB DESCRIPTION:** INSTALL 10.73 KW PHOTO VOLTAIC POWER SYSTEM TO SFR**JOB ADDRESS:** 1501 NE 37TH ST**OWNER INFORMATION:**SHAMBLEN GLENN A  
SHAMBLEN GLYNIS  
1501 NE 37TH ST  
OCALA FL 344792419**CONTRACTOR INFORMATION:**AC/DC SOLAR LLC  
5001 S FL AVE  
STE 203  
LAKELAND FL 33813**PARCEL NUMBER:** 15813-001-14**SUBDIVISION:** FLOYD CLARK UNR 118**LOT:** 14 **BLOCK:** A**RANGE-TOWNSHIP-SECTION:** 22 - 14 - 33**TOTAL SQFT:****NOC:** REQUIRED**SETBACKS FRONT:** 25**REAR:** 25**LEFT:** 8**RIGHT:** 8

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:**

4/18/23 APPROVED BY CAP- KEITH

3/30/23 SUBMITTED TO CAP FOR PLAN REVIEW - KEITH

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



OUR  
COUNTY

MY  
COMMISSIONERS

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DEPARTMENTS

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Building Safety Month

CONTACT

**Building Safety**  
2710 E. Silver Springs Blvd.  
Ocala, FL 34470

352-438-2400  
[Department phone directory](#)

[Email](#)

Permits & inspections

Print Feedback Share & Bookmark Font Size:

**Beware of scams!**  
Verify with our team before you agree to pay.  
Contact our office at 352-438-2400 for confirmation.

Planning to build in Marion County? Is your parcel required to connect to a [Marion County Utilities](#) pipeline? Here's important [information that may affect your costs & cause project delays](#).  
Learn how the [Florida Springs Protection Act](#), effective July 1, 2018, impacts [Marion County's permitting process](#).

**Current standards:** [Florida Building Code, 7th edition](#).

Permit search & inspection scheduling

Memo	Inspection Detail		
	203 FINAL ELECTRIC NO POWER		
Priority	0		
Inspection Code	203		
Description	203 FINAL ELECTRIC NO POWER		
Request Date	6/30/2023		
Scheduled Inspector	HAMBLÉN, JOSHUA		
Result Date	6/30/2023		
Inspection Results	(90) APPROVED		
Result Inspector	HAMBLÉN, JOSHUA		
Denial Codes	<table><thead><tr><th>CODE</th><th>DESCRIPTION</th></tr></thead><tbody></tbody></table>	CODE	DESCRIPTION
CODE	DESCRIPTION		



Inverter Type: (29) Inphase IQ8PLUS-72-2-US  
PV Panel: (29) SIL-370 HC  
Racking: Iron Ridge XR-10  
Total Wattage: 10,730W DC  
Roof Type: Metal  
Wind Load: 0 to 20 Deg  
Fastener Type: Use S-51 Protea Bracket

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 IQ8PLUS-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.



605 W Lumsden Rd,  
Brandon, FL 33511  
855-577-7999

**Legend**

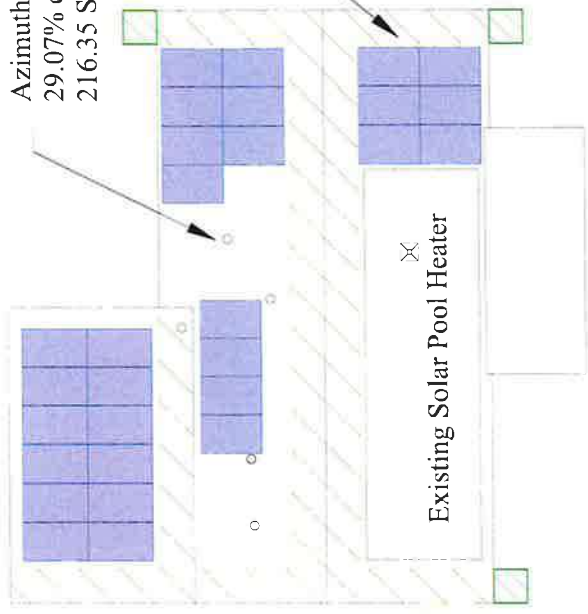
- 3' 1'-6" First responder access
- Ground Access
- Utility Meter
- PV Disconnect
- Chimney
- Satellite
- Vent Pipe

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.)

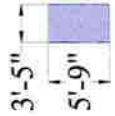
**R-3**  
# Modules (12)  
Pitch: 5°  
Azimuth: 0°  
54.67% of R-3  
236.01 Sq.Ft of R-3

**R-2**  
# Modules (11)  
Pitch: 18°  
Azimuth: 0°  
29.07% of R-2  
216.35 Sq.Ft of R-2

**R-1**  
# Modules (6)  
Pitch: 18°  
Azimuth: 180°  
14.41% of R-1  
118.01 Sq.Ft of R-1



Utility Meter  
-COGEN Disconnect  
Located adjacent to  
Utility meter



Layout Subject to Change Based on Site Conditions

**FRONT OF HOUSE**

System meets the requirements of NFPA 70th Edition, Chapter 1:1.12 (2018 Edition) Install will be done to Manufacturer Spec

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

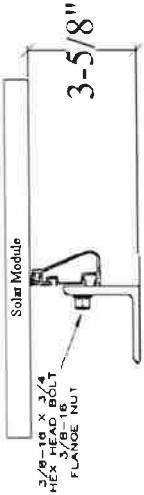
**3' Access Pathway**  
1st Responder Access  
minimum of 36" unobstructed as per  
Section R324 of the 2020 IRC  
Represents all Fire Clearance  
including Alternative methods

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.)

**Customer Info:**

**GLENN SHAMBLEN**  
1501 NE 37TH ST  
OCALA, FL  
34479

Godwin Engineering and Design, LLC 8378 Foxtail Loop Pensacola, FL 32526 D. Chad Godwin, PE Chad@godwineng.com	<b>Donnie C Godwin</b> 2023.02.27 10:57:45 '00'06-
Date: 2/23/2023	Drawn by: JM
Revised by:	Rev #: 00
Rev Date:	Rev Date:
Page: 11"x17" S-1	Compass for Aerial



Ironridge XR-10

S-5 Protea Bracket

General Notes: R1-R2

- S-5 Brackets are secured to Roof @ 48" O.C. in Zone 1, @ 48" O.C. in Zone 2e, @ 48" O.C. in Zone 2n, @ 48" O.C. in Zone 2r, @ 48" O.C. in Zone 3e, @ 48" O.C. in Zone 3r using (4) 6mm x 25mm Bl-Metal Self-Piercing
- Subject roof has One layer.
- All penetrations are sealed.

General Notes: R3

- S-5 Brackets are secured to Roof @ 48" O.C. in Zone 1', @ 48" O.C. in Zone 1, @ 48" O.C. in Zone 2, @ 32" O.C. in Zone 3 using (4) 6mm x 25mm Bl-Metal Self-Piercing
- Subject roof has One layer.
- All penetrations are sealed.

Roof Section Pitch Roof Rafter and Spacing Overhang Notes:

R1-R2	4/12	2"x4" @ 24 O.C.	12"	Truss
R3	1/12	2"x6" @ 16 O.C.	12"	

-Roof Height 15'  
-Per 2020 FBC, the Roof Mounted PV System will be subject to the following design criteria:  
Design Wind Speed(Vult) - 130mph 3 sec gust,  
Exposure Category - B  
-Designed as per ASCE7-16

Inverter Type: (29)Enphase IQ8PLUS-72-2-US  
pV Panel: (29) SiL-370 HC  
Racking: Iron Ridge XR-10  
Total Wattage: 10,730W DC  
Roof Type: Metal  
Wind Load: 0 to 20 Deg  
Fastener Type: Use S-5! Protea Bracket

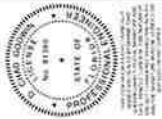
Customer Info:

GLENN SHAMBLEN  
1501 NE 37TH ST  
OCALA, FL  
34479

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  
2023.02.27  
10:58:03  
'00'06-



605 W Lumsden Rd,  
Brandon, FL 33511  
855-577-7999

Date: 2/23/2023  
Drawn by: JM  
Revised by:  
Rev #: 00  
Rev Date:  
Page: 11"X17" S-2





System meets the grounding requirements of NEC 690.43

The Placard shall be permanently installed, and shall be made of red, weatherproof hard plastic, with engraved white block lettering.

**Rapid Shutdown Built in**  
Per Code NEC 690.12

**In compliance with NEC 250.58, NEC 690.8, NEC 250.24, NEC 250.24(D)**  
Conductors have a minimum capacity 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 plan

**System is in compliance with NFPA 70E 11.1.12 7th Edition**  
All Interactive System(S) Points of interconnection with other sources shall be marked at an accessible location at the disconnecting means as a power source and with the rated ac output current and the nominal operating AC voltage. Per NEC 690.54

**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 VOLTALIC SYSTEM EQUIPPED WITH RAPID SHUTDOWN- as per NEC article 690.56 (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 sign(s) or label(s) shall comply with NEC article 110.21 (B). Label warning(s) shall adequately warn of the hazard. Labels shall be permanently affixed to the equipment, and Labels required shall be suitable for the environment.**

Inverter Output Data	
Design Temperature (°F)	94°F
Max Amb Temp Range (°F)	87-95
Temp Rating of Conductors (°C)	75°C
Current Carrying	4A
AC Max Output Current	35A
AC Max Output Current * 1.25%	44A
Overcurrent Protection(A)	50A
Amp Rating Correction Factor	0.94
Breakaway Full Adjustment Factor	100%
Wire Size(AWG)	6
Cond. Allowable Ampacity(A)	60A
Cond Adjusted Ampacity(A)	61A
Amperage Check 1 Per 690.8(B)(1)	Pass
Amperage Check 2 Per 690.8(B)(2)	Pass

All Exterior equipment is A minimum of Nema-R3 Rated

In compliance with 230.71  
Combiner box in compliance  
Per Code NEC 705.12  
3\* 20A < 125A  
\*No other loads to be added

**In Case of Emergency Call**  
ACDC Solar LLC  
at 855-577-7999

Apply to Main Disconnect  
Permanent sticker added to disconnect

-All Electrical Service Equipment shall be located at or above  
BFP's P or 8'00" NAAV)

Line Side Tap will be done in Main Service Panel, located inside House  
Markings shall be reflective. Weather Resistant and suitable for the environment.  
Markings shall read with white lettering with minimum 1" Character Letters

**Note:**  
-Subject PV Systems has been designed to meet the requirements of the NEC 2017, and those set forth by the Florida Solar Energy Center Certification, Including Maximum Number of Module Strings, Maximum number of modules per string, Maximum Output, Module Manufacturer and model number, inverter manufacturer and model number, as applicable.

NFCA 705.10 A permanent plaque or directory, denoting the location of all electric power source disconnecting means on or in the premises, shall be installed at each service equipment location and at the location(s) of the system disconnect(s) for all electric power production sources capable of being interconnected. One sign required for each PV system.

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

Including the label below

**In Case of Emergency Call**  
ACDC Solar LLC  
at 855-577-7999

**Customer Info:**

GLENN SHAMBLEN  
1501 NE 37TH ST  
OCALA, FL  
34479



Install will be done to Manufacturer Spec



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

Donnie C Godwin  
2023.02.27  
10:58:32  
'00'06-

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

WARNING

DUAL POWER SUPPLY SOURCES: UTILITY GRID AND PV SOLAR ELECTRIC SYSTEM

WARNING

INTERFERES EQUIPMENT CONNECTIONS AND MISPLACED THIS OVERCURRENT DEVICE

WARNING

POWER SOURCE OUTPUT CONNECTION DO NOT RELOCATE THIS OVERCURRENT DEVICE

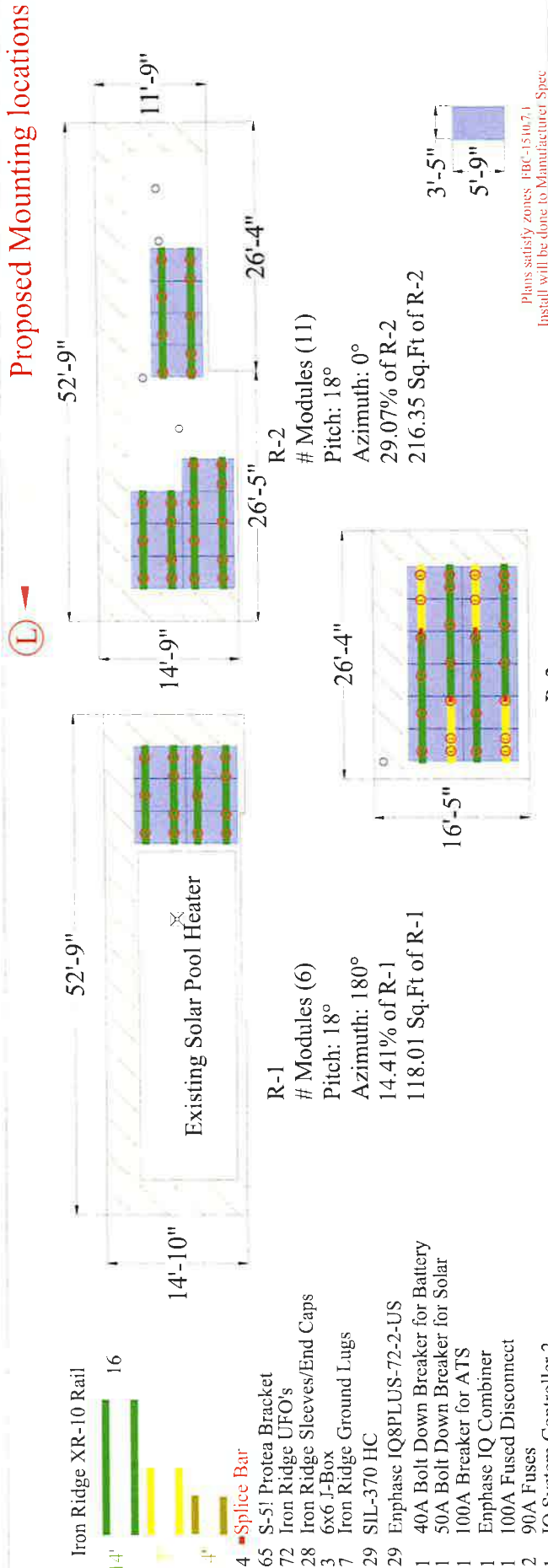


605 W Lumsden Rd,  
Brandon, FL 33511  
855-577-7999

Date:	2/23/2023
Drawn by:	JM
Revised by:	
Rev #:	00
Rev Date:	
Page:	11"x17" E-2

Inverter Type:	Emphase IQ8PLUS-72-2-US
PV Panel:	SIL-370 HC (29)
Total Watings:	10,730W DC

Proposed Mounting locations



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

Donnie C Godwin

2023.02.27

10:58:44

'00'06-

R-3

# Modules (12)

Pitch: 5°

Azimuth: 0°

54.67% of R-3

236.01 Sq.Ft of R-3

R3

Max Cantilever = Max Span \* (1/3)

Zone 1: Max Cantilever = 16" Max Span = 48"

Zone 1: Max Cantilever = 16" Max Span = 48"

Zone 2: Max Cantilever = 16" Max Span = 48"

Zone 3: Max Cantilever = 10.6" Max Span = 32"

R1-R2

Max Cantilever = Max Span \* (1/3)

Zone 1: Max Cantilever = 16" Max Span = 48"

Zone 2: Max Cantilever = 16" Max Span = 48"

Zone 2n: Max Cantilever = 16" Max Span = 48"

Zone 2r: Max Cantilever = 16" Max Span = 48"

Zone 3c: Max Cantilever = 16" Max Span = 48"

Zone 3r: Max Cantilever = 16" Max Span = 48"

ACDC Solar LLC

605 W Lumsden Rd,  
Brandon, FL 33511  
855-577-7999

Customer Info:

GLENN SHAMBLEEN  
1501 NE 37TH ST  
OCALA, FL  
34479

Inverter Type: (29)Enphase IQ8PLUS-72-2-US

PV Panel: (29) SIL-370 HC

Racking: Iron Ridge XR-10

Total Wattage: 10,730W DC

Roof Type: Metal

Wind Load: 0 to 20 Deg

Fastener Type: Use S-5! Proteca Bracket

Date: 2/23/2023

Drawn by: JM

Revised by:

Rev #: 00

Rev Date:

Page: 11"x17" S-1A



SILFAB PRIME

500 270 180



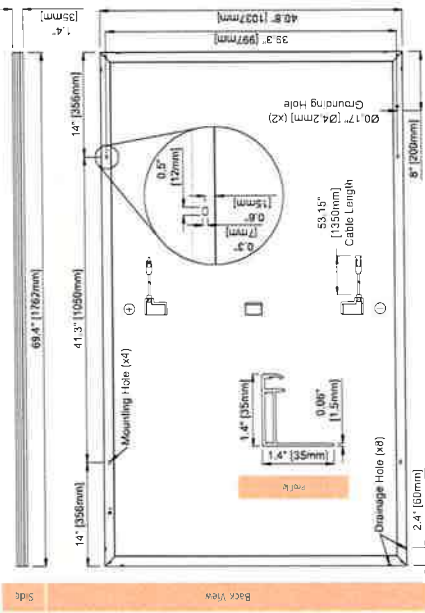
RELIABLE ENERGY.  
DIRECT FROM THE SOURCE.  
Introducing **Silfab Prime**.

Designed to outperform.  
Dependable, durable, high-performance solar panels  
engineered for North American homeowners.

SILFABSOLAR.COM

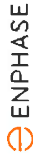


ELECTRICAL SPECIFICATIONS			370	NDC T
Test Conditions	STC	370	27%	
Module Power (P <sub>max</sub> )	34.95			32.48
Maximum power voltage (V <sub>mp</sub> )	10.60			10.16
Maximum power current (I <sub>mp</sub> )	41.25			30.15
Open circuit voltage (V <sub>oc</sub> )	11.25			9.87
Short circuit current (I <sub>sc</sub> )	20.24			18.99
Module efficiency				
Maximum system voltage (V <sub>OC</sub> )				
Series fuse rating				
Power Tolerance				
Measurement conditions: STC: 1000 W/m <sup>2</sup> , 25°C, AM1.5; Temperature: 25°C, NDC T: 800 W/m <sup>2</sup> , AM1.5; Maximum spectral irradiance: 1000 W/m <sup>2</sup> ; Sun simulator calibration reference: equivalent to the Fraunhofer Institute; Test cell area: 166 cm <sup>2</sup> ; Irradiance: 1000 W/m <sup>2</sup> ; Power: 370 W; Power Tolerance: ±1%				
MECHANICAL PROPERTIES / COMPONENTS		METRIC		
Module weight		19.5kg (43 lbs)		
Dimensions (H x L x D)		1762 mm x 1217 mm x 35 mm		
Maximum module load (wind/snow)*		2400 Pa (net load) / 3600 Pa (gross load)		
Hail Impact resistance		25 mm (1 in) at 63 km/h		
Cells		120 half-cells - Stripped PERC		
Glass		3 mm (0.118 in) - Tempered		
Cable and connector (refer to installation manual)		350 mm (13.78 in) MC4 from Sta-Hill		
Backsheet		High durability, superior hydrolysis and UV resistance, multi-layer delamination free		
Frame		Anodized Aluminum (Black)		
Bypass diodes		3 cells, 30SQD51 (45V max DC blocking voltage, 30A max forward recirc current)		
Junction Box		UL 1710 Certified, IEC 62770 Certified, IP68 rated		
TEMPERATURE RATINGS		-40 to 85°C		
Temperature Coefficient P <sub>max</sub>		-0.064 %/°C		
Temperature Coefficient V <sub>oc</sub>		-0.28 %/°C		
Temperature Coefficient I <sub>mp</sub>		0.35 %/°C		
NDC T (1.2°C)		45°C		
Operating temperature		-40/+85°C		
CERTIFICATIONS		ULC ORC CT1710, UL1710, CE, IEC 62770, IEC 62770-1, IEC 62770-2, IEC 62770-3, IEC 62770-4, IEC 62770-5, IEC 62770-6, IEC 62770-7, IEC 62770-8, IEC 62770-9, IEC 62770-10, IEC 62770-11, IEC 62770-12, IEC 62770-13, IEC 62770-14, IEC 62770-15, IEC 62770-16, IEC 62770-17, IEC 62770-18, IEC 62770-19, IEC 62770-20, IEC 62770-21, IEC 62770-22, IEC 62770-23, IEC 62770-24, IEC 62770-25, IEC 62770-26, IEC 62770-27, IEC 62770-28, IEC 62770-29, IEC 62770-30, IEC 62770-31, IEC 62770-32, IEC 62770-33, IEC 62770-34, IEC 62770-35, IEC 62770-36, IEC 62770-37, IEC 62770-38, IEC 62770-39, IEC 62770-40, IEC 62770-41, IEC 62770-42, IEC 62770-43, IEC 62770-44, IEC 62770-45, IEC 62770-46, IEC 62770-47, IEC 62770-48, IEC 62770-49, IEC 62770-50, IEC 62770-51, IEC 62770-52, IEC 62770-53, IEC 62770-54, IEC 62770-55, IEC 62770-56, IEC 62770-57, IEC 62770-58, IEC 62770-59, IEC 62770-60, IEC 62770-61, IEC 62770-62, IEC 62770-63, IEC 62770-64, IEC 62770-65, IEC 62770-66, IEC 62770-67, IEC 62770-68, IEC 62770-69, IEC 62770-70, IEC 62770-71, IEC 62770-72, IEC 62770-73, IEC 62770-74, IEC 62770-75, IEC 62770-76, IEC 62770-77, IEC 62770-78, IEC 62770-79, IEC 62770-80, IEC 62770-81, IEC 62770-82, IEC 62770-83, IEC 62770-84, IEC 62770-85, IEC 62770-86, IEC 62770-87, IEC 62770-88, IEC 62770-89, IEC 62770-90, IEC 62770-91, IEC 62770-92, IEC 62770-93, IEC 62770-94, IEC 62770-95, IEC 62770-96, IEC 62770-97, IEC 62770-98, IEC 62770-99, IEC 62770-100		
WARRANTIES		75 years**		
Module product/workmanship warranty		30 years		
Linear power performance guarantee		≥ 91.16% end 1st yr ≥ 90.16% end 25th yr ≥ 89.16% end 30th yr		
SHIPPING SPECS		Modules per Pallet: 26 or 26 (California)		
Pallets per Truck		34 or 32 (California)		
Modules per Truck		894 or 832 (California)		



**SILFAB SOLAR INC.**  
6000 Cortwell Ave.  
San Diego, CA 92121 USA  
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DATA SHEET



## IQ8 and IQ8+ Microinverters

Our newest IQ8 Microinverters are the industry's first microgrid-forming, software-defined microinverters with split-phase power conversion capability to convert DC power to AC power efficiently. The brain of the semiconductor-based microinverter is our proprietary application-specific integrated circuit (ASIC) which enables the microinverter to operate in grid-tied or off-grid modes. The 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.



IQ8 Series 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. The 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.



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



Connect PV modules quickly and easily to IQ8 Series Microinverters using the included O-DCC-2 adapter cable with plug-n-play MCA connectors.

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IQ8SP-DS-0002-01-EN-US-2021-10-19

## IQ8 and IQ8+ Microinverters

INPUT DATA (DC)		101-145-1-35	101-145-1-35	101-145-1-35
Commonly used module pairings <sup>1</sup>		235 - 350	235 - 440	60-cell/120 half-cell and 72-cell/144 half-cell
Module compatibility		60-cell/120 half-cell	27 - 37	28 - 45
MPPT voltage range		27 - 37	25 - 48	25 - 58
Operating range		25 - 48	30 / 48	30 / 58
Min/max start voltage		30 / 48	50	60
Max input DC voltage		50	15	15
Max DC current <sup>2</sup> (modules)		A	II	II
Overvoltage class DC port		II	0	0
DC port backfeed current		nA		
PV array configuration		N/A (Ungrounded array; No additional DC side protection required; AC side protection required; max 20A per branch circuit)		
OUTPUT DATA (AC)		101-145-1-35	101-145-1-35	101-145-1-35
Peak output power		245	300	300
Max continuous output power		240	290	290
Nominal (L) voltage/range <sup>3</sup>		V	240 / 211 - 254	1.21
Max continuous output current		A	1.0	60
Nominal frequency		Hz	60	50 - 68
Extended frequency range <sup>4</sup>		Hz	16	13
Max units per 20 A (L) branch circuit <sup>4</sup>				
Total harmonic distortion			<5%	
Overvoltage class AC port		III	III	
AC port backfeed current		nA	30	10
Power factor rating			0.85 leading - 0.85 lagging	
Grid-tied power factor (adjustable)				
Peak efficiency		%	97.5	97.5
CEC weighted efficiency		%	97	97
Night time power consumption		mW	60	60
MECHANICAL DATA				
Ambient temperature range		-40°C to 40°C (-40°F to 104°F)		
Relative humidity range		4% to 100% (condensing)		
DC Connector type		MCA		
Dimensions (HxWxD)		212 mm (8.37") x 175 mm (6.9") x 30.2 mm (1.2")		
Weight		1.08 kg (2.38 lbs)		
Cooling		Natural convection - no fans		
Approved for wet locations		Yes		
Acoustic noise at 1m		<60 dBA		
Pollution degree		PDS		
Enclosure		Class II liquid-tight, corrosion-resistant polycarbonate enclosure		
Environ. category / UV exposure rating		NEMA Type 6 / outdoor		
CERTIFICATIONS				
Certifications		CA Rule 21 (UL 1741-SA), UL 62109-1, UL1741/IEEE1547, FCC Part 15 Class B, CEC-0003 Class B, CAN/CSA-C22.2 NO. 1071-01		

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

IQ8SP-DS-0002-01-EN-US-2021-10-19



Enphase IQ Battery 10T	
MODEL NUMBER ENCHARGE-10T-1P-NA	IQ Battery 10T battery storage system with integrated Enphase IQ series microinverters and battery management unit (BMS). Includes: - Three IQ Battery 3T base units (803-101-1ES00-1-3) - One IQ Battery 10T cover kit with cover, wall mounting bracket, and interconnect cable for wiring between batteries (810T-1C1200-0)
	OUTPUT (AC) @ 240 VAC <sup>1</sup> Rated (continuous) output power 3.84 kVA Peak output power 5.76 kVA (10 seconds) Nominal voltage / range 240 / 211 – 264 VAC Nominal frequency / range 60 / 57 – 63 Hz Rated output current 16 A Peak output current 24.6 A (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 Arms Round trip efficiency <sup>4</sup> 89%
BATTERY	Total capacity 10.5 kWh Usable capacity 10.05 kWh Round trip efficiency 96% Nominal DC voltage 672 V Maximum DC voltage 756 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) Weight 1283 x 775 x 188 mm (50.5 x 30.5 x 7.4 in) Three individual 40.5 kg (89.2 lb) base units plus 22.1 kg (48.7 lb) cover and mounting bracket. Total 143.6 kg (316.5 lbs) Enclosure Outdoor – NEMA type 3R NEMA type 6 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 M215/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, Integritron Compliance UL 9540, UN 38.3, UL 1998, UL 991, NEMA Type 3R, AC156 EMC/CEC, Part 15, Class B, ICES 003 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 Unlimited Warranty ≥20% capacity, up to 10 years or 4000 cycles <sup>2</sup> , extendable to 15 years <sup>3</sup> 1. Registered in both grid-connected and back-up operation. 2. AC to battery to AC at 50+ degree efficiency. 3. With battery capacity first. Exceptions apply. 4. Terms and conditions apply.

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

ENPHASE

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 10.05 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-year limited warranty, extendable to 15 years<sup>1</sup>
- Three independent IQ Battery base units
- Twelve embedded IQx-BAT 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)





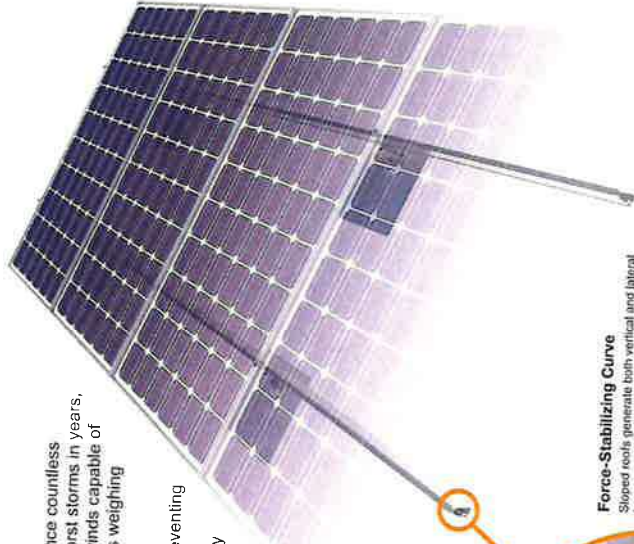


XR Rail Family

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.

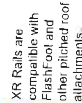
XR Rails are the structural backbone preventing these results. They resist uplift, protect against buckling and safely and efficiently transfer loads into the building structure. Their superior spanning capability requires fewer roof attachments, reducing the number of roof penetrations and the amount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



IronRidge offers a range of key options for flat roof mounting applications.

Corrosion-Resistant Materials

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



Tech Brief

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 up to 10" of snow. It achieves spans up to 10 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					
Snow (PSF)	Wind (MPH)	4'	5' 4"	6'	8'	10'	12'
None	90	XR10			XR100	XR1000	
	120						
	140						
	160						
20	90						
	120						
	140						
	160						
30	90						
	160						
40	90						
	160						
80	90						
	160						
120	90						
	160						

\* Table is limited to 10:12 pitch, 10:12 pitch, and 10:12 pitch. All other pitches are not covered. For additional information, visit [ironridge.com](http://ironridge.com).

## GODWIN ENGINEERING AND DESIGN, LLC

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

February 27, 2023

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

Re: Shamblen- Residential Pv Roof Mount Installation  
1501 Ne 37th St.  
Ocala, FL 34479

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 ( $V_{ult}$ ) - 130mph 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.

There are two existing roof coverings; one is Metal with min. ½" plywood decking and 2" x 4" roof trusses 24" O.C. The other is flat roof with Metal over min. ½" plywood decking and 2" x 6" roof trusses 16" 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 Metal roofs with the Iron Ridge XR-10 railing and the S-5! Protea Bracket. The attachments for the Metal roof with Iron Ridge XR-10 railing and S-5! Protea Bracket. The attachments can be attached up to 48" apart in roof zones 1, 2e, 2n, 2r, 3e & 3r. The mounts should be staggered, where possible, to allow distribution of the design loads evenly to the structure. The attachments for the Metal roof with Iron Ridge XR-10 railing and S-5! Protea Bracket. The attachments can be attached up to 48" apart in roof zone 1', 1, & 2 and 32" apart in roof zone 3. The mounts should be staggered, where possible, to allow distribution of the design loads evenly to the structure. The mounts shall be installed using 4 x 6mm x 25mm BI-Metal Self-Piercing screws.

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  
2023.02.2  
10:59:00 7  
'00'06-



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 Category	II	Table 1.5-1
Basic Wind Speed (Ult)	130 mph	Figure 26.5-18
Roof Angle	8° to 20°	
Roof Type	Gable	
Exposure Cat. B, C, or D	B	Section 26.7
Mean Roof Height h	15.00 ft	
Roof attachment	S-SI ProteaBracket	
Rafter/Truss Spacing	24 in O.C.	
No. of Modules - Portrait	2	
No. of Modules - Landscape	17	
Module Model Number	0	
Module Model Number	SIL-370 HC	
bidg. least horizontal dim (typ.)	360 in	
Elevation	<1000 ft	
Est. # of attachment points	65	

**Wind Load Parameters**

Wind Speed (asd)	101 mph	FRC R301.2.1.3
Effective Wind Area	19.66 ft²	26.20
Wind Directionality	K <sub>d</sub> 0.85	Table 26.6-1
Topographic factor	K <sub>zt</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	1/ε 1.50	29.4.4 *Modules are considered Exposed
Solar Panel Equalization Factor	1/λ 0.68	Fig. 29.4-8
Velocity Pressure	q <sub>h</sub> 12.58 psf	q <sub>h</sub> =0.00256 K <sub>z</sub> K <sub>zt</sub> K <sub>e</sub> K <sub>d</sub> V²
Added Safety Factor	1.2	
Allowable Pullout per mount	633.0 lbs	
0.4h or 0.6h	6.00 ft	Flat - 0.6h, Gable, Hip - 0.4h
10% of least horizontal dim	3.60 ft	10% of least hor. dim. Or 0.4h, whichever is smaller, but not less than either 4% of least hor. Or 3ft. (flat roof - 0.6h)
Roof Zone Set Back	3.00 ft	
h <sub>2</sub>	5 in	Not > 10in (panel height above roof)
2h <sub>2</sub>	10 in	*min distance array shall be from the roof edge, Gable Ridge, or hip ridge
d1	0.25 ft	min gap between all panels but not > 6 ft;
d2	1.00 ft	horizontal distance orthogonal to panel edge
0.5h	0.25 ft	horizontal distance from edge of one panel to the nearest edge in the next row
	7.50 ft	*modules are considered exposed that are within 1.5h <sub>2</sub> from roof edge

**PV Dead Load**

# of Modules	17
Module	43 lbs
Array	731 lbs
Micro/optimizer	68 lbs
PV Rail	13 lbs
Total Weight	812 lbs
Total Area	334.28 ft²
Dead Load	2.43 psf
Weight/attachment	13.5 lbs

**Module and Racking Specs**

Dimensions, LxWxH (in)	69.4 x 40.8 x 1.4
Width	3.40 ft
Length	5.78 ft
Module Area	19.66 ft²

**Module load ratings**

Load Rating - Snow (psf)	Ultimate 113.4 Allowable 75.6
Load Rating - Wind (psf)	Ultimate -113.4 Allowable -75.6

**PV Attachment - Results**

	1	2e	2r	2n	3e	3r
GC <sub>2</sub> - Uplift	-2.0	-2.0	-2.6	-2.6	-2.6	-3.0
GC <sub>2</sub> - Down	0.5	0.5	0.5	0.5	0.5	0.5
p = q <sub>s</sub> (GC <sub>2</sub> )(1/ε)(1/λ)	-23.3	-23.3	-31.1	-31.1	-31.1	-36.2
p = q <sub>s</sub> (GC <sub>2</sub> )(1/ε)(1/λ)	6.4	6.4	6.4	6.4	6.4	6.4
Max Allowable Span	6	6	4	4	4	4
Max Cantilever (in)	24	24	16	16	16	16

psf 29.4-7  
psf 29.4-7  
ft \*notes  
Max span \* 33% (in)

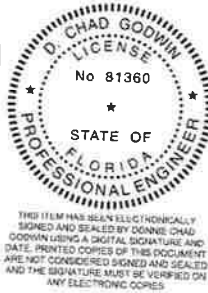
**Notes**

Eq.1 Point Load = Roof Zone psf \* A<sub>wt</sub>  
Eq.2 A<sub>wt</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

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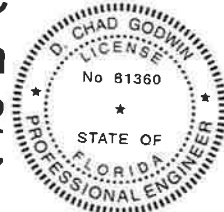




**ASCE 7-16 CHAPTER 29 WIND LOADS - Rooftop Solar Panels Minimum Design Loads - Part 1: Enclosed (Gable, Hip, Flat, 0° to 45°)**

Wind Load Parameters - Inputs				Wind Load Parameters																																						
Risk Category	II	Table 1.5-1	Wind Speed (asd)	101	mph	FRC R301.2.1.3																																				
Basic Wind Speed (Ult)	130	Figure 26.5-18	Effective Wind Area	19.66	ft <sup>2</sup>	26.20																																				
Roof Angle	0° to 7°		Wind Directionality	$K_d$	0.85	Table 26.6-1																																				
Roof Type	Flat		Topographic factor	$K_{zt}$	1.00	26.8 or 26.8.2																																				
Exposure Cat. B, C, or D	B	Section 26.7	Ground Elevation Factor	$K_e$	1.00	Table 26.9-1																																				
Mean Roof Height h	15.00	ft	Velocity Exposure Coefficient	$K_z$	0.57	Table 26.10-1																																				
Roof attachment	S-51 Proteabrace		Array Edge Factor	$\gamma_e$	1.50	29.4.4 *Modules are considered Exposed																																				
Rafter/Truss Spacing	16	in O.C.	Solar Panel Equalization Factor	$\gamma_s$	0.68	Fig. 29.4-8																																				
No. of Rails	2		Velocity Pressure	$q_h$	12.58	psf $q_h = 0.00256 K_z K_{zt} K_d V^2$																																				
No. of Modules - Portrait	12		Added Safety Factor		1.2																																					
No. of Modules - Landscape	0		Allowable Pullout per mount		633.0	lbs.																																				
Module Model Number	SL-370 HC		0.4h or 0.6h	9.00	ft	Flat - 0.6h, Gable, Hip - 0.4h																																				
bldg. least horizontal dim (typ.)	360	in	10% of least horizontal dim	3.00	ft	10% of least hor. Dim, or 0.4h, whichever is smaller, but not less than either 4% of least hor. Or 3ft. (Flat roof - 0.6h)																																				
Elevation	<1000	ft	Roof Zone Set Back	9.00	ft	Not > 10in (pane height above roof)																																				
Est. # of attachment points	26		$h_2$	5	in	*min distance array shall be from the roof edge, Gable Ridge, or hip ridge																																				
<b>PV Dead Load</b>				<b>Module and Racking Specs</b>																																						
# of Modules	12		Dimensions, LxWxH (in)	69.4 x 40.8 x 1.4																																						
Module	$W_{mod}$	43	Width	3.40	ft																																					
Array	$W_{array}$	516	Length	5.78	ft																																					
Micro/optimizer	$W_{mic}$	48	Module Area	19.66	ft <sup>2</sup>																																					
PV Rail	$W_{rail}$	9	<b>Module load ratings</b>																																							
Total Weight	$W_{total}$	573	Ultimate Allowable																																							
Total Area	$A_t$	235.96	Load Rating - Snow (psf) 113.4 75.6																																							
Dead Load	$D_{iv}$	2.43	Load Rating - Wind (psf) -113.4 -75.6																																							
Weight/attachment		22.0																																								
<b>PV Attachment - Results</b>				<b>Notes</b>																																						
Roof Zones - Flat 0° to 7°				Eq. 1 Point Load = Roof Zone psf * $A_{eff}$																																						
				Eq. 2 $A_{eff} = (Module Length / 2) * Max Span$																																						
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<table border="1"> <thead> <tr> <th></th> <th>1'</th> <th>1</th> <th>2</th> <th>3</th> </tr> </thead> <tbody> <tr> <td><math>GC_p</math> - Uplift</td> <td>-0.9</td> <td>-1.7</td> <td>-2.3</td> <td>-3.2</td> </tr> <tr> <td><math>GC_p</math> - Down</td> <td>0.3</td> <td>0.3</td> <td>0.3</td> <td>0.3</td> </tr> <tr> <td><math>p = q_s(GC_p)(\gamma_s)(\gamma_e)</math></td> <td>-9.2</td> <td>-19.5</td> <td>-27.2</td> <td>-38.8</td> </tr> <tr> <td><math>p = q_s(GC_p)(\gamma_s)(\gamma_e)</math></td> <td>3.9</td> <td>3.9</td> <td>3.9</td> <td>3.9</td> </tr> <tr> <td>Max Allowable Span</td> <td>5.33</td> <td>5.33</td> <td>5.33</td> <td>4</td> </tr> <tr> <td>Max Cantilever (in)</td> <td>22</td> <td>22</td> <td>22</td> <td>16</td> </tr> </tbody> </table>					1'	1	2	3	$GC_p$ - Uplift	-0.9	-1.7	-2.3	-3.2	$GC_p$ - Down	0.3	0.3	0.3	0.3	$p = q_s(GC_p)(\gamma_s)(\gamma_e)$	-9.2	-19.5	-27.2	-38.8	$p = q_s(GC_p)(\gamma_s)(\gamma_e)$	3.9	3.9	3.9	3.9	Max Allowable Span	5.33	5.33	5.33	4	Max Cantilever (in)	22	22	22	16	psf 29.4-7 psf 29.4-7 ft *notes Max span * 33% (in)			
	1'	1	2	3																																						
$GC_p$ - Uplift	-0.9	-1.7	-2.3	-3.2																																						
$GC_p$ - Down	0.3	0.3	0.3	0.3																																						
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$p = q_s(GC_p)(\gamma_s)(\gamma_e)$	3.9	3.9	3.9	3.9																																						
Max Allowable Span	5.33	5.33	5.33	4																																						
Max Cantilever (in)	22	22	22	16																																						

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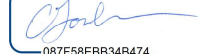
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