OCALA ELECTRIC UTILITY OCALA, FLORIDA

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

APPLICATION FOR INTERCONNECTION OF CUSTOMER-OWNED RENEWABLE GENERATION SYSTEMS

TIER 1 - Ten (10) kW or Less

1. Customer Information

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

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

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

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

(Continued on Sheet No.19.1)

Effective: October 1, 2019

OCALA ELECTRIC UTILITY OCALA, FLORIDA (Continue from Sheet No. 19.0)

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3. Facility Rating Information

Gross Power Rating: 6.298 ("Gross power rating" means the total manufacturer's A 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. 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)

Effective: October 1, 2019

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

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

Effective: October 1, 2019

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 3rd 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: Anita Solomon	Date:	2/15/2024
(Print Name)		
anita & Solomon		
(Signature)		

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 P	urchase Agreement (this "Agreement") is	entered into this
15th day of February , 20 24 ,	by and between the Florida Municipal Po	wer Agency, a
governmental joint action agency crea	ated and existing under the laws of the Sta	ate of Florida
(hereinafter "FMPA"), the City of Oo	cala doing business as Ocala Electric Uti	lity, a body politic
(hereinafter "OEU"), and	Anita Solomon	, a retail
electric customer of OEU (hereinafter	r "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)

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

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

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

(Continued on Sheet No. 20.4)

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. <u>Severability</u>. 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)

Effective: October 1, 2019

OCALA ELECTRIC UTILITY OCALA, FLORIDA (Continued from Sheet No. 20.4) FIR ST 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: Jania Mitdull	Florida Municipal Power Agency By: John
Title: CFO	Title: VP of IT/OT and System Ops
Date: 6/21/2024	Date: 6/21/2024
Customer	
By: Anity Solomon (Print Name) (Signature)	Date: _2/15/2024_
Customer's City of Ocala Electric Utility Acc	count Number: <u>5463</u> 65-339438
Approved as to form and legality:	
Docusigned by: William E. Screton	
Wittiam E. Sexton, Esq.	

(Continued on Sheet No. 20.6)

Issued by: Michael Poucher, P.E. Electric Utility Director Effective: Octob & 1, 2019

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

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

Tri-Party Net-Metering Power Purchase Agreement Schedule A

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

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

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

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

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

II. Payment for Unused Excess Energy Credits

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

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

Effective: October 1, 2019

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 i	into this _	15th day of _	February	, 20_24	, by and
between	Anita Solomon		_, (hereinafi	er called "Cu	ıstomer"),	located at
738 SE 29th Terrace	in	Ocala	, Fl	orida, and th	e City of	Ocala doing
business as Ocala	a Electric Utility (her	einafter ca	alled OEU),	a body politi	c. Custon	ner and OEU
shall collectively	be called the "Parties	s". The ph	ysical location	on/premise wl	nere the int	erconnection
is taking place: _	738 SE 29th Terrace, Oc	ala, FL 344	71			

WITNESSETH

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

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

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

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

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

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

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

(Continued on Sheet No. 21.1)

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)

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.

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 customerowned 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.

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.

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

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

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

(Continued to Sheet No. 21.6)

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.

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.

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

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

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

OCALA ELECTRIC UTILITY OCALA, FLORIDA (Continued from Sheet No. 21.8) FIRST REVISED SHEET NO. 21.9 CANCELS ORIGINAL SHEET NO. 21.9

Effective: October 1, 2019

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

City of Ocala Electric Utility:	Customer:
By: Javice Middell STIBLE CFO	By: Anita L. Solomon (Print Name) Onita & Solomon Onita & Solomon
Date: 6/21/2024	Date: March 5, 2024
	City of Ocala Electric Utility Account Number:
	546365-239928
Approved as to form and legality:	
William E. Sexton, Esq. City Attorney	

ELE/240804

Universal Property & Casualty Insurance Company, A Stock Company

c/o Evolution Risk Advisors, Inc. 1110 W. Commercial Blvd Fort Lauderdale, FL 33309

Homeowners **Declaration Effective** 10/08/2023



Renewal Policy

THIS IS NOT A BILL

THIS IS NO	etect Your Agent Listed Below	Agent Code
For Policy or Claims Questions Co	[MORTGAGEE BILLED]	BV38
D-lley Periou	12:01 AM Standard Time	
10/08/2024		
1 100/0023	Agent Name and Address	
1501-1403-6414 10/08/2023	Agent Name Town Agency, LLC	

Named Insured and Address

Anita Solomon 738 SE 29th Terr Ocala, FL 34471 (407) 761-6779

My Home Town Agency, LLC 6789 SW Highway 200 Ocala, FL 34476 (352) 355-7865

Insured Location

Form

HO3

738 SE 29TH TER OCALA, FL 34471 MARION COUNTY

1968

Premium Summary

Total Policy Premium (Including Assessments & Surcharges)

\$2.895.96

Attached Endorsements Basic Coverages Premium \$61.00 \$2,174.00

Construction

MGA Fees/Policy Fees Assessments / Surcharges \$586.00 Rating Information

Townhouse/

Rowhouse

Occupied

N

\$74.96

Territory Class 792

BCEG 99

Protective Device Credits Fire Burglar

We will provide the insurance described in this policy in return for the premium and compliance with all applicable provisions of this policy. For renewals: If we elect to continue this insurance, we will renew this policy if you pay the required renewal premium for each successive policy period subject to our premiums, rules and forms then in effect. You must pay us prior to the end of the current policy period or else this policy will expire.

Personal Property Replacement Cost

Number of

Families

Insurance is provided only with respect to the following coverages for which a limit of liability is specified, subject to all the

conditions of this policy.			COVERAGES - SECTION II	LIMITS	PREMIUMS
COVERAGES - SECTION I	LIMITS	PREMIUMS	Coverage E - Personal Liability	\$300,000	\$18.00
Coverage A - Dwelling	\$182,263	\$2,174.00		Married Color of the Color of t	\$5.00
Coverage B - Other Structure	\$18,235		Coverage F - Medical Payments	\$5,000	
Coverage C - Personal Property	\$91,132				
Coverage D - Loss of Use	\$36,453				
			1 44 000 50		

NOTE:

The portion of your premium for hurricane coverage is: \$1,903.52 The portion of your premium for all other coverages is: \$992.44

Section I Coverages Subject to a 2.0% of Coverage A - \$3,645 Hurricane Deductible Per Calendar Year.

Section I Coverages Subject to \$1,000 All Other Perils (Non-Hurricane, Non-Sinkhole) Deductible Per Loss.

The Ordinance or Law Coverage amount is 25% of Coverage A - \$45,566

THIS POLICY CONTAINS A SEPARATE DEDUCTIBLE FOR HURRICANE LOSSES WHICH MAY RESULT IN HIGH OUT-OF-POCKET EXPENSES TO YOU.

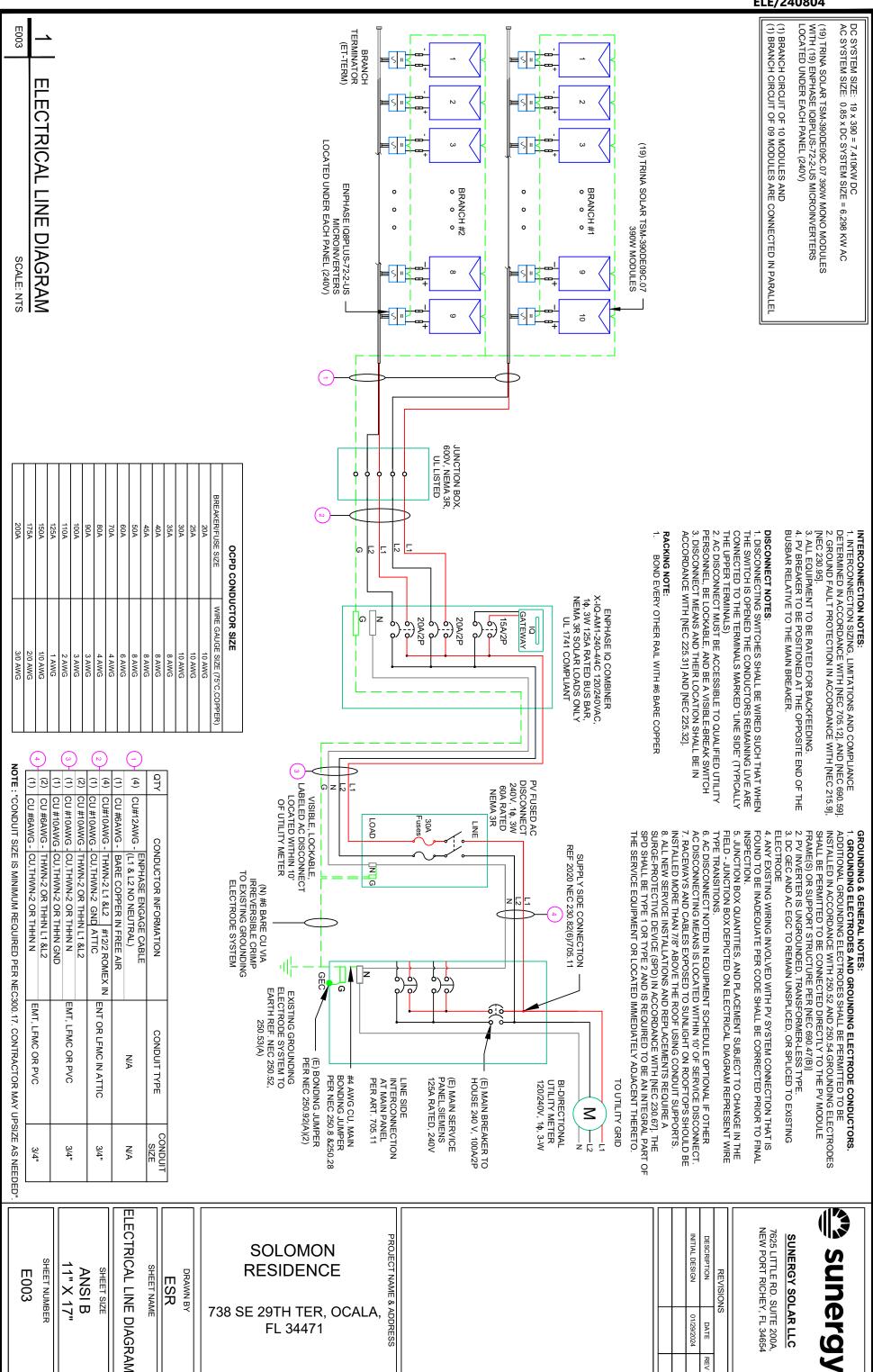
Flood coverage is not provided by Universal Property & Casualty Insurance Company and is not part of this policy.

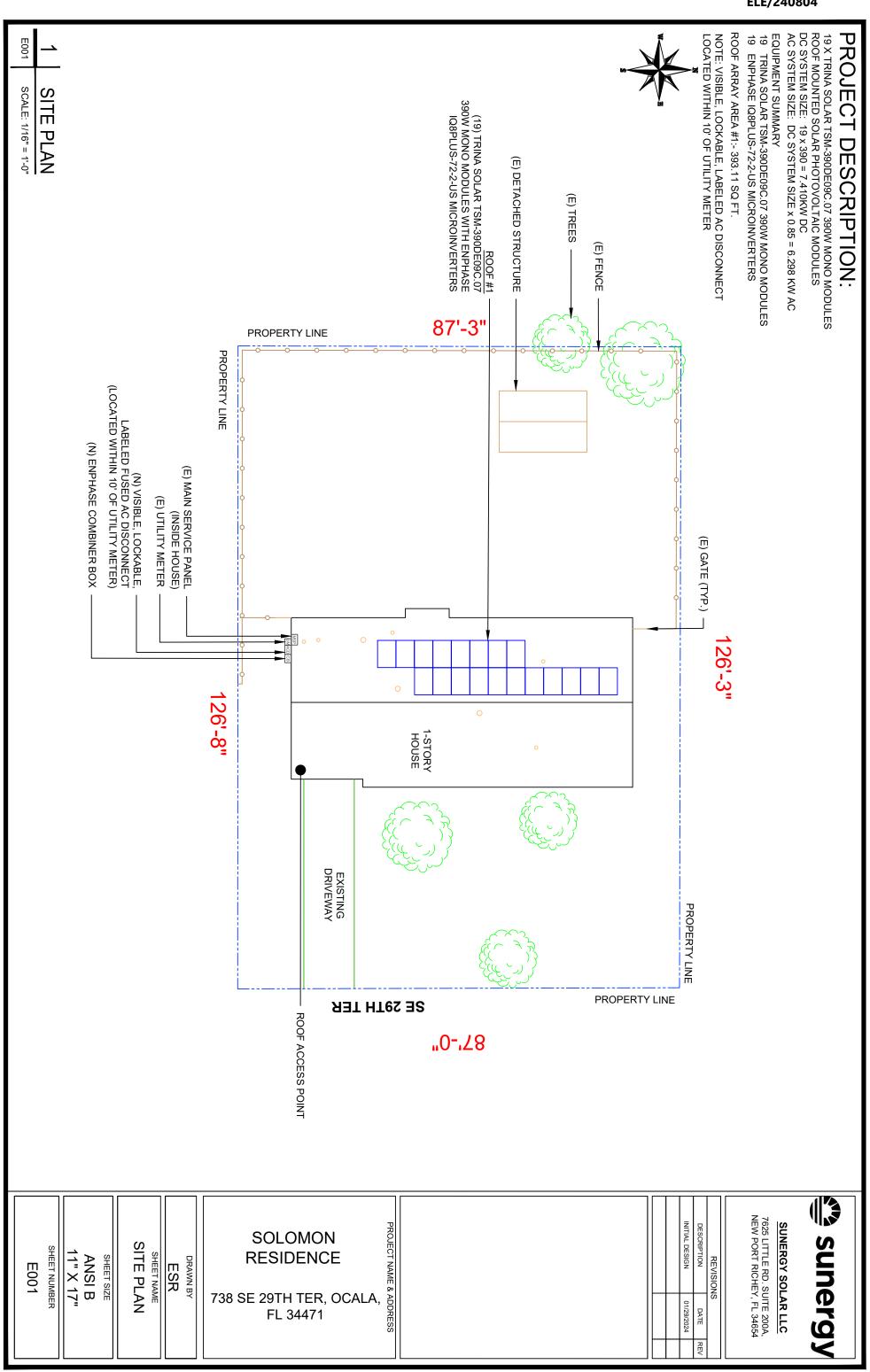
My Home Town Agency, LLC

Countersignature

Date







| IEC61215/IEC61730/IEC61701/IEC62716/UL61730 | IEC61215/IEC61730/IEC61701/IEC62716/UL61730 | IEC61215/IEC61730/IEC61701/IEC62716/UL61730 | IEC61215/IEC61730/IEC61701/IEC62716/UL61730 | IEC61215/IEC61730/IEC617301/IEC62716/UL61730 | IEC61215/IEC617301/IEC62716/UL61730 | IEC61215/IEC61730/IEC617301/IEC62716/UL61730 | IEC61215/IEC61730/IEC617301/IEC62716/UL61730 | IEC61215/IEC617301/IEC617301/IEC62716/UL61730 | IEC61215/IEC617301/IEC62716/UL61730 | IEC61215/IEC617301/IEC617301/IEC62716/UL61730 | IEC61215/IEC617301/IEC617301/IEC62716/UL61730 | IEC61215/IEC617301/I

Comprehensive Products and System Certificates



PRODUCT: TSM-DE09C.07

DIMENSIONS OF PV MODULE(mm)

1096 1048

I-V CURVES OF PV MODULE(400 W)

14.0 12.0 10.0 9.0 8.0 7.0 6.0 5.0 4.0 3.0 2.0

INITIAL DESIGN

01/29/2024

REVISIONS

PETTEX S BACKSHEET MONOCRYSTALLINE MODULE

Mono

Multi Solutions

PRODUCT RANGE: 380-405W

POSITIVE POWER TOLERANCE

MAXIMUM POWER OUTPUT

0~+5W

MAXIMUM EFFICIENCY

High value

More productivity from same roof size.

(cs)

Front View

11.5 Silicon Sealant Back View

Power (W)

100 50

Voltage(V)

450 400 350 300 250 250

P-V CURVES OF PV MODULE (400W)

Voltage(V)

- Outstanding visual appearance. Leading 210mm cell technology.
- Small in size, big on power
- Small format module allow greater energy generation in limited space. Up to 405W, 21.1% module efficiency with high density interconnect
- resistance and improved current. Multi-busbar technology for better light trapping effect, lower series Reduce installation cost with higher power bin and efficiency.
- Boost performance in warm weather with lower temperature coefficient
- and more cost-effective. and mounting systems. Perfect size and low weight makes handling and transportation easier

Designed for compatibility with existing mainstream optimizers, inverters

Universal solution for residential and C&I rooftops

(-0.34%) and operating temperature.

- Diverse installation solutions for flexibility in system deployment
- 25 year product warranty. **High Reliability**

25 year performance warranty with lowest degradation.

Minimized micro-cracks with innovative non-destructive cutting

.

- Ensured PID resistance through cell process and module material
- Mechanical performance up to +6000 Pa and-4000 Pa negative load

Short Circuit Current-Isc (A)

40.4 12.92

40.8 13.08

13.20

41.2

TEMPERATURE RATINGS

43°C (±2°C)

MAXIMUMRATINGS Operational Tempera

Maximum System Voltage 1500VDC (IEC) 1500VDC (UL)
Max Series Fuse Rating 25A

rradiance ratio (rear/front)

Trina Solar's Backsheet Performance Warranty 10 15 -Trina standard 20 84.8%

ELECTRICAL DATA (STC)

Peak Power Watts-PMAX (Wp)*	380	385	390	395	400	405
Power Tolerance-PMAX (W)			0~+5	,		
Maximum Power Voltage-V*** (V)	33,4	33.6	33.8	34.0	34.2	34.4
Maximum Power Current-Impp (A)	11.38	11.46	11.54	11.62	11.70	11.77
Open Circuit Voltage-Voc(V)	40.4	40.6	40.8	41.0	41.2	41.4
Short Circuit Current-Isc(A)	12.00	12.07	12.14	12.21	12.28	12.34
Module Efficiency , m (%)	19.8	20.0	20.3	20.5	20.8	21.1

al characteristics with different power bin (reference to 10% I	ferent por	wer bin (re	eference t	010%	rradiance ratio	atio)
quivalent power -PMAX (Wp)	407	412	417	423	428	433
ım Power Voltage-V»>> (V)	33,4	33,6	33.8	34.0	34.2	34.4
um Power Current-IMPP (A)	12.19	1226	12.34	12.44	12.51	12.59

LECTRICAL DATA (NOCT)						
Maximum Power-Рмах (Wp)	286	290	294	298	302	305
Maximum Power Voltage-V++> (V)	31.4	31.6	31.8	31.9	32,1	32.4
Maximum Power Current-IMPP (A)	9.12	9.18	9.24	9.32	9.38	9.42
Open Circuit Voltage-Voc(V)	38.0	38.2	38.4	38.6	38,8	38.9

Short Grouit Current-Isc (A)

9.67

9.73

9.78

9,84

9.90

9.94

0.55% Annual Power Attenuation

25 year Product Workmanship Warranty 25 year Power Warranty 2% first year degradation

> Modules per 60x: 36 pieces Modules per 40' container: 828 pieces PACKAGING CONFIGUREATION

> > DRAWN BY

ARRANTY

Temperature Coefficient of Isc

MECHANICAL DATA

Solar Cells	Monocrystalline
No. of cells	120 cells
Module Dimensions	1754×1096×30 mm (69.06×43.15×1.18 inches)
Weight	21.0 kg (46.3 lb)
Glass	3.2 mm (0.13 inches), High Transmission, ARCoated Heat Strengthened Glass
Encapsulant material	EVA/POE
Backsheet	Transparent backsheet
Frame	30mm(1.18 inches) Anodized Aluminium Alloy
J-Box	IP 68 rated
Cables	Photovoltaic Technology Cable 4.0mm² (0.006 inches²), Portrait: 350/280 mm(13.78/11.02 inches) Landscape: N 1100 mm /P 1100 mm (43.31/43.31 inches)
Connector	MC4 EV02 / TS4*



CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT.

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sunergy

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SUNERGY SOLAR LLC 7625 LITTLE RD. SUITE 200A, NEW PORT RICHEY FI 34654	
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RESIDENCE
738 SE 29TH TER, OCALA FL 34471

SOLOMON

PROJECT NAME & ADDRESS

DATASHEET MODULE 11" X 17" ANSI B SHEET SIZE

SHEET NUMBER



ENPHASE



Our newest IQ8 Microinverters are the industry's first microgrid-forming, software-IQ8 and IQ8+ Microinverters

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



IQ8 Series Microinverters redefine reliability standards with more than one million cumulative hours of power-on testing, enabling an industry-leading limited warranty of up to 25 years.

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.

CERTIFIED SAFETY

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

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

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IQ8SP-DS-0002-01-EN-US-2022-03-17

Easy to install

DC port backfeed current

B

0

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

High productivity and reliability two-wire cabling

Produce power even when the grid is down*

- hours of testing More than one million cumulative
- Class II double-insulated enclosure

Optimized for the latest high-

powered PV modules

Microgrid-forming

- advanced grid support** Complies with the latest
- Configurable to support a wide the latest grid requirements Remote automatic updates for
- Meets CA Rule 21 (UL 1741-SA) range of grid profiles requirements
- *Only when installed with IQ System Controller 2, meets UL 1741.

 **IQ8 and IQ8Plus supports split phase, 240V installations only.

IQ8 and IQ8+ Microinverters

DATA SHEET

INPUT DATA (DC)	108-60-2-US	108PLUS-72-2-US
Commonly used module pairings ¹ W	235 - 350	235 - 440
Module compatibility	60-cell/120 half-cell	60-cell/120 half-cell, 66-cell/132 half-cell and 72-cell/144 half-cell
MPPT voltage range V	27 - 37	29 - 45
Operating range V	25 - 48	25-58
Min/max start voltage V	30 / 48	30 / 58
Max input DC voltage V	50	60
Max DC current² [module lsc] A		15
Overvoltage class DC port		

PV array configuration	1x1 Ungrounded array; No additional DC side protection requ	1x1 Ungrounded array; No additional DC side protection required: AC side protection requires max 20A per branch circuit
OUTPUT DATA (AC)	108-60-2-US	IQ8PLUS-72-2-US
Peak output power VA	245	300
Max continuous output power VA	240	290
Nominal (L-L) voltage/range³ V	240/2	240 / 211 – 264
Max continuous output current A	1.0	1.21
Nominal frequency Hz	6	60
Extended frequency range Hz	50	50 - 68
AC short circuit fault current over 3 cycles Arms		2
Max units per 20 A (L-L) branch circuit ⁴	16	ជ
Total harmonic distortion	Δ.	<5%
Overvoltage class AC port		
AC port backfeed current mA	CJ.	30
Power factor setting		1.0
Grid-tied power factor (adjustable)	0.85 leading - 0.85 lagging	- 0.85 lagging
Peak efficiency %	97.5	97.6
CEC weighted efficiency %	97	97
Night-time power consumption mW	6	60
MECHANICAL DATA		
Ambient temperature range	-40°C to +60°C	40°C to +60°C (-40°F to +140°F)
Relative humidity range	4% to 100%	4% to 100% (condensing)
DC Connector type	Δ.	MC4
Dimensions (HxWxD)	212 mm (8.3") x 175 mn	212 mm (8.3") x 175 mm (6.9") x 30.2 mm (1.2")
Weight	1.08 kg (108 kg (2.38 lbs)
Cooling	Natural conve	Natural convection - no fans
Approved for wet locations	*	Yes
Pollution degree	P	PD3
Enclosure	Class II double-insulated, corros	Class II double-insulated, corrosion resistant polymeric enclosure
Environ. category / UV exposure rating	NEMA Type	NEMA Type 6 / outdoor

PROJECT NAME & ADDRESS

Certifications This product is UL Listed as PV Rapid Shut Down Equipment and conforms with NEC 2014, NEC 2017, and NEC 2020 section 690.12 and C22.1-2018 Rule 64-218 Rapid Shutdown of PV Systems, for AC and DC conductors, when installed according to manufacturer's instructions. CA Rule 21 (UL 1741-SA), UL 62109-1, UL1741/IEEE1547, FCC Part 15 Class B, ICES-0003 Class B, CAN/CSA-C22.2 NO. 107.1-01

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

IQ8SP-DS-0002-01-EN-US-2022-03-17

sunergy

SUNERGY SOLAR LLC

7625 LITTLE RD. SUITE 200A, NEW PORT RICHEY, FL 34654

	INITIAL DESIGN	DESCRIPTION	REVISIONS	
	01/29/2024	DATE	S	
		REV		

	INITIAL DESIGN	DESCRIPTION	REVISIONS
	01/29/2024	DATE	S
		REV	

RESIDENCE

738 SE 29TH TER, OCALA, FL 34471

SOLOMON

SHEET NAME MICROINVERTER DRAWN BY ESR

11" X 17" ANSI B DATASHEET

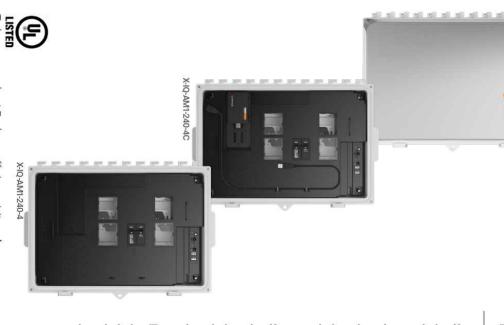
SHEET SIZE

SHEET NUMBER

To learn more about Enphase offerings, visit enphase.com

Enphase Networking Data Sheet

X-IQ-AM1-240-4C X-IQ-AM1-240-4 **Enphase** Q Combiner 4/4C



providing a consistent, pre-wired solution for into a single enclosure and streamlines IQ modem (included only with IQ Combiner 4C) busbar assembly. 2-pole input circuits and Eaton BR series microinverters and storage installations by consolidates interconnection equipment IQ Gateway and integrated LTE-M1 cell residential applications. It offers up to four

The Enphase IQ Combiner 4/4C with Enphase

- Includes Enphase Mobile Connect cellular modem Includes IQ Gateway for communication and control (CELLMODEM-M1-06-SP-05), included only with IQ
- Includes solar shield to match Enphase IQ Battery aesthetics and deflect heat

Combiner 4C

- Flexible networking supports Wi-Fi, Ethernet, or cellular
- Optional AC receptacle available for PLC bridge Provides production metering and consumption

Simple

- Centered mounting brackets support single stud mounting
- Up to four 2-pole branch circuits for 240 VAC Supports bottom, back and side conduit entry
- plug-in breakers (not included) 80A total PV or storage branch circuits

Reliable

- Durable NRTL-certified NEMA type 3R enclosure
- Two years labor reimbursement program coverage Five-year limited warranty
- UL listed included for both the IQ Combiner SKU's



Enphase IQ Combiner 4/4C

MODEL NOMBEK	
IQ Combiner 4 (X-IQ-AM1-240-4)	(Q Combiner 4 with Enphase IQ Gateway printed circuit board for integrated revenue grade PV production metering (ANSI C12.20 +/- 0.5%) and consumption monitoring (+/- 2.5%). Includes a silver solar shield to match the IQ Battery system and IQ System Controller 2 and to deflect heat.
IQ Combiner 4C (X-IQ-AMI-240-4C)	IQ Combiner 4C with Enphase IQ Gateway printed circuit board for integrated revenue grade PV production metering (ANSI C12.20+7.0.5%) and consumption monitoring (47-2.5%), includes Enphase Mobile Connect cellular modem (CELLMODEM-M1-06-SP-05), a plug-and-play industrial-grade cellular modem for systems up to 60 microinverters. (Available in the US, Canada, Mexico, Puerto Rico, and the US Virgin Islands, where there is adequate cellular service in the installation area.) Includes a silver solar shield to match the IQ Battery and IQ System Controller and to deflect heat.
ACCESSORIES AND REPLACEMENT PARTS (not included, order separately)	(not included, order separately)

	(Available in the US, Canada, Mexico, Puerto Rico, and the US Virgin Islands, where there is adequate cellular service in the installation area.) Includes a silver solar shield to match the IQ Battery and IQ System Controller and to deflect heat.
CCESSORIES AND REPLACEMENT PARTS	(not included, order separately)
nsemble Communications Kit NMSS-CELLMODEM-M1-06 ELLMODEM-M1-06-SP-05 ELLMODEM-M1-06-AT-05	- Includes COMMS-KIT-01 and CELLMODEM-M1-06-SP-05 with 5-year Sprint data plan for Ensemble sites - 46 based LTE-M1 cellular modem with 5-year Sprint data plan - 46 based LTE-M1 cellular modem with 5-year AT&T data plan
rcuit Breakers 8RK-10A-2-240V	Supports Eaton BR210, BR215, BR220, BR230, BR240, BR250, and BR260 circuit breakers. Of cult breaker, 2 pole, 10A, Eaton BR210 Of cult breaker, 2 pole, 10A, Eaton BR216
8RK-20A-2P-240V 8RK-15A-2P-240V-B 8RK-20A-2P-240V-B	Circuit breaker, 2 pole, 20A, Eaton BR220 Circuit breaker, 2 pole, 15A, Eaton BR215B with hold down kit support Circuit breaker, 2 pole, 20A, Eaton BR220B with hold down kit support
PLC-01	Power line carrier (communication bridge pair), quantity - one pair
A-SOLARSHIELD-ES	Replacement solar shield for IQ Combiner 4/4C
A-PLUG-120-3	Accessory receptacle for Power Line Carrier in IQ Combiner 4/4C (required for EPLC-01)
A-ENV-PCBA-3	Replacement IQ Gateway printed circuit board (PCB) for Combiner 4/4C
1Q-NA-HD-125A	Hold down kit for Eaton circuit breaker with screws.
LECTRICAL SPECIFICATIONS	

Ensemble Communications Kit	- Includes COMMS-KIT-01 and CELLMODEM-M1-06-SP-05 with 5-year Sprint data plan for
CELLMODEN-M1-06-SP-05 CELLMODEN-M1-06-AT-05	- 4G based LTE-M1 cellular modem with 5-year Sprint data plan - 4G based LTE-M1 cellular modem with 5-year AT&T data plan - 4G based LTE-M1 cellular modem with 5-year AT&T data plan
Circuit Breakers BRK-10A-2-240V BRK-15A-2-240V	Supports Eaton BR210, BR215, BR220, BR230, BR240, BR250, and BR260 circuit breakers. Circuit breaker, 2 pole, 10A, Eaton BR210 Circuit breaker, 2 pole, 15A, Eaton BR215
BRK-20A-2P-240V BRK-15A-2P-240V-B BRK-20A-2P-240V-B	Circuit breaker, 2 pole, 20A, Eaton BR220 Circuit breaker, 2 pole, 15A, Eaton BR215B with hold down kit support Circuit breaker, 2 pole, 20A, Eaton BR220B with hold down kit support
EPLC-01	Power line carrier (communication bridge pair), quantity - one pair
XA-SOLARSHIELD-ES	Replacement solar shield for IQ Combiner 4/4C
XA-PLUG-120-3	Accessory receptacle for Power Line Carrier in IQ Combiner 4/4C (required for EPLC-01)
XA-ENV-PCBA-3	Replacement IQ Gateway printed circuit board (PCB) for Combiner 4/4C
X-1Q-NA-HD-125A	Hold down kit for Eaton circuit breaker with screws.
ELECTRICAL SPECIFICATIONS	
Rating	Continuous duty
System voltage	120/240 VAC, 60 Hz
Eaton BR series busbar rating	125 A
Max. continuous current rating	65 A
Max. continuous current rating (input from PV/storage)	64 A
Max. fuse/circuit rating (output)	90 A
Branch circuits (solar and/or storage)	Up to four 2-pole Eaton BR series Distributed Generation (DG) breakers only (not included)
Max. total branch circuit breaker rating (input)	80A of distributed generation / 95A with IQ Gateway breaker included
Production metering CT	200 A solid core pre-installed and wired to IQ Gateway
Consumption monitoring CT (CT-200-SPLIT)	A pair of 200 A split core current transformers
MECHANICAL DATA	
Dimensions (WxHxD)	$37.5 \times 49.5 \times 16.8$ cm (14.75" x 19.5" x 6.63"). Height is 21.06" (53.5 cm) with mounting brackets.
Weight	7.5 kg (16.5 lbs)
Ambient temperature range	-40° C to +46° C (-40° to 115° F)
Cooling	Natural convection, plus heat shield
Enclosure environmental rating	Outdoor, NRTL-certified, NEMA type 3R, polycarbonate construction
Wire sizes	 20 A to 50 A breaker inputs: 14 to 4 AWG copper conductors 60 A breaker branch input 4 to 1.0 AWG copper conductors

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Namily	Commissions
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Wire sizes	 20 A to 50 A breaker inputs: 14 to 4 AWG copper conductors 60 A breaker branch input: 4 to 1/0 AWG copper conductors Main lug combined output: 10 to 2/0 AWG copper conductors Neutral and ground: 14 to 1/0 copper conductors Neutral and ground: 14 to 1/0 copper conductors Always follow local code requirements for conductor sizing.
Altitude	To 2000 meters (6,560 feet)
INTERNET CONNECTION OPTIONS	
Integrated Wi-Fi	802.11b/g/n
Cellular	CELLMODEM-M1-06-SP-05, CELLMODEM-M1-06-AT-05 (4G based LTE-M1 cellular modern). Note that an Enphase Mobile Connect cellular modern is required for all Ensemble Installations.
Ethernet	Optional, 802.3, Cat5E (or Cat 6) UTP Ethernet cable (not included)
COMPLIANCE	
Compliance, IQ Combiner	UL 1741, CAN/CSA C22.2 No. 107.1, 47 CFR, Part 15, Class B, ICES 003 Production metering: ANSI C12.20 accuracy class 0.5 (PV production) Consumption metering: accuracy class 2.5

To learn more about Enphase offerings, visit enphase.com

Compliance, IQ Gateway

UL 60601-1/CANCSA 22.2 No. 61010-1

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SHEET NAME COMBINER BOX DATASHEET

DRAWN BY ESR

ANSI B

SHEET NUMBER

11" X 17"

SOLOMON
RESIDENCE

PROJECT NAME & ADDRESS

738 SE 29TH TER, OCALA, FL 34471

sunergy

7625 LITTLE RD. SUITE 200A, NEW PORT RICHEY, FL 34654

INITIAL DESIGN

01/29/2024

DESCRIPTION

REVISIONS

SUNERGY SOLAR LLC

Certificate Of Completion

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Chris Gowder chris.gowder@fmpa.com

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Envelope Summary Events Envelope Sent	Status Hashed/Encrypted	Timestamps 6/12/2024 6:07:30 PM
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Envelope Sent	Hashed/Encrypted	6/12/2024 6:07:30 PM
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