

OCALA ELECTRIC UTILITY  
OCALA, FLORIDA

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

**APPLICATION FOR INTERCONNECTION OF  
CUSTOMER-OWNED RENEWABLE  
GENERATION SYSTEMS**

TIER 1 - Ten (10) kW or Less

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

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

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

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

**1. Customer Information**

Name: Linda Iacovini

Mailing Address: 1232 NE 115th Avenue

City: Silver Springs State: FL Zip Code: 34488

Phone Number: 352-615-3790 Alternate Phone Number: \_\_\_\_\_

Email Address: \_\_\_\_\_ Fax Number: \_\_\_\_\_

Ocala Electric Utility Customer Account Number: 557357-156656

**2. RGS Facility Information**

Facility Location: 1232 NE 115th Avenue Silver Springs, Fl. 34488

Ocala Electric Utility Customer Account Number: 557357-156656

RGS Manufacturer: Longi Solar

Manufacturer's Address: No.8369 Shangyuan Road, Xi'an Economic & Technological  
Development Zone, Xi'an Shaanxi, China

Reference or Model Number: LR5-54HABB-400M (400W)

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

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Electric Utility Director

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### 3. Facility Rating Information

Gross Power Rating: 4.56kWac ("Gross power rating" means the total manufacturer's AC nameplate generating capacity of an on-site customer-owned renewable generation system that will be interconnected to and operate in parallel with Ocala Electric Utility's distribution facilities. For inverter-based systems, the AC nameplate generating capacity shall be calculated by multiplying the total installed DC nameplate generating capacity by 0.85 in order to account for losses during the conversion from DC to AC.)

Fuel or Energy Source: Solar/PV

Anticipated In- Service Date: 12/30/24

### 4. Application Fee

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

### 5. Interconnection Study Fee

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

### 6. Required Documentation

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

A. Documentation demonstrating that the installation complies with (or most current version at time of inspection approval):

1. IEEE 1547 (2018) Standard for Interconnecting Distributed Resources with Electric Power Systems.
2. IEEE 1547.1 (2005) Standard Conformance Test Procedures for Equipment Interconnecting Distributed Resources with Electric Power Systems.
3. UL 1741 (2010) Inverters, Converters, Controllers and Interconnection System Equipment for Use with Distributed Energy Resources.

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Electric Utility Director

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B. Documentation that the customer-owned renewable generation has been inspected and approved by local code officials prior to its operation in parallel with the Ocala Electric Utility system to ensure compliance with applicable local codes. OEU will also require proof of commission testing by a qualified 3<sup>rd</sup> party testing company (not affiliated in any way with the manufacturer, vendor or installation contractor), for compliance with all required and applicable codes, standards, and interconnection study requirements, prior to setting of OEU metering equipment.

C. Proof of insurance in the amount of:  
Tier 1 - \$100,000.00  
Tier 2 - \$1,000,000.00  
Tier 3 - \$2,000,000.00

**Customer**

By: Linda Iacovini  
(Print Name)

Date: 1-23-25

  
(Signature)

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

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

This Tri-Party Net-Metering Power Purchase Agreement (this "Agreement") is entered into this 23rd day of January, 2025, 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 Linda Iacovini, a retail electric customer of OEU (hereinafter "Customer").

### **Section 1. Recitals**

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

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

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

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

### **Section 2. Interconnection**

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

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

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### **Section 3. Metering**

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

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

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

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

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

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4.04. FMPA and OEU shall not be required to purchase or receive excess customer-owned renewable generation, and may require Customer to interrupt or reduce production of 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.

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

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## 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.

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

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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.

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Electric Utility Director

Effective: October 1, 2019



**CONTRACT# ELE/250525**

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

**City of Ocala Electric Utility**

By: Signed by: Jarvis Mitchell  
Title: CFO  
Date: 4/8/2025

**Florida Municipal Power Agency**

By: DocuSigned by: [Signature]  
Title: Chief Sys Ops & Tech Officer  
Date: 4/8/2025

**Customer**

By: Linda Iacovini  
(Print Name)  
[Signature]  
(Signature)

Date: 1-23-25

Customer's City of Ocala Electric Utility Account Number: 557357-156656

Approved as to form and legality:

DocuSigned by: William E. Sexton  
9870CFC4E88E42D  
William E. Sexton, Esq.  
City Attorney

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Electric Utility Director

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**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.

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

This **Agreement** is made and entered into this 23rd day of January, 20 25, by and between Linda Iacovini, (hereinafter called "**Customer**"), located at 1232 NE 115th Avenue in Silver Springs, 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: 1232 NE 115th Avenue Silver Springs, Fl. 34488.

**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 "FMPPA") have entered into the All-Requirements Power Supply Contract pursuant to which the City of Ocala has agreed to purchase and receive, and FMPPA 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, FMPPA, in accordance with the terms and conditions of this agreement, has agreed to purchase excess customer-owned generation from OEU customers interconnected to OEU's electric system; and

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

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

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Electric Utility Director

Effective: October 1, 2019

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

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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.

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

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12. The Customer's RGS must have an appropriately sized grid-tie inverter system that includes applicable protective systems. Customer certifies that the RGS equipment includes 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's systems.

15. The Customer is responsible for the protection of its generation equipment, inverters, protection devices, and other system components from damage from the normal and abnormal operations that occur on OEU 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.

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

Effective: October 1, 2019



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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)

Issued by: Michael Poucher, P.E.  
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

**CONTRACT# ELE/250525**


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.

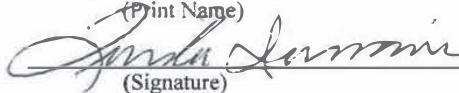
**City of Ocala Electric Utility:**

**Customer:**

By:  \_\_\_\_\_  
Signed by: Janice Mitchell  
5510BB13B5BA1E1...

By: Linda Iacovini  
(Print Name)

Title: CFO \_\_\_\_\_

  
(Signature)

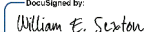
Date: 4/8/2025 \_\_\_\_\_

Date: 1-23-25 \_\_\_\_\_

City of Ocala Electric Utility Account Number:

557357-156656

Approved as to form and legality:

 \_\_\_\_\_  
DocuSigned by: William E. Sexton  
B07CFC4E8E429  
William E. Sexton, Esq.  
City Attorney

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

Effective: October 1, 2019

AMERICAN RELIABLE INSURANCE COMPANY  
FARM AND EQUINE POLICY

CGL FARM LIABILITY DECLARATIONS

Policy Number: AML110552 10

Account Number:

<b>Named Insured and Address:</b> LINDA IACOVINI 1232 NE 115TH AVE SILVER SPRINGS, FL 34488-2573	<b>Policy Period:</b> <b>At 12:01 A.M. Standard Time at the address of the Named Insured.</b>  <b>From:</b> 06-10-2024 <b>To:</b> 06-10-2025
<b>Type Of Operation:</b> Horses	<b>Agency Number:</b> 8051-0001  <b>Agency Name and Address:</b> ACENTRIA INSURANCE 1823 E FORT KING ST UNIT 200 OCALA, FL 34471-2571
<b>Payment Plan</b> <input checked="" type="checkbox"/> <b>Direct Bill</b> <input type="checkbox"/> <b>Agency Bill</b>	
<b>IN RETURN FOR THE PAYMENT OF THE PREMIUM, AND SUBJECT TO ALL THE TERMS OF THIS POLICY, WE AGREE WITH YOU TO PROVIDE THE INSURANCE AS STATED IN THIS POLICY</b>	


Form Of Business:

<input checked="" type="checkbox"/> Individual	<input type="checkbox"/> Joint Venture	<input type="checkbox"/> Partnership	<input type="checkbox"/> Limited Liability Company
<input type="checkbox"/> Trust	<input type="checkbox"/> Corporation	<input type="checkbox"/> An Organization (other than a Corporation, Joint Venture, Limited Liability Company, Trust or Partnership)	

Coverage	Limit of Insurance		
General Aggregate Limit	\$	2,000,000	Other than Products-Completed Operations
Products-Completed Operations Aggregate Limit	\$	2,000,000	
A – Bodily Injury and Property Damage Limit	\$	1,000,000	Each Occurrence Limit
B – Personal and Advertising Injury Limit	\$	1,000,000	Any One Person or Organization
A – Damage to Premises Rented to You Limit	\$	100,000	Any One Premises
C – Medical Payments Limit	\$	5,000	Any One Person
M – Chemical Drift	\$	25,000	
Transportation of Farm Chemicals	\$	25,000	
Miscellaneous Coverage(s) Limit	\$		
CARE, CUSTODY OR CONTROL	\$		
	\$		







**SOLAR TREK INC.**  
3347 SW 7TH ST.,  
OCALA, FL 34474

REVISIONS

DESCRIPTION	DATE	REV
CLIENT COMMENT 1	02/14/2025	A

PROJECT NAME

SILVER SPRINGS, FL 34488

SHEET NAME

ELECTRICAL  
SITE PLAN & BOM

SHEET SIZE

ANSI B  
11" X 17"

SHEET NUMBER

E-01

Signature with Seal

JEFFREY A. TORRES, PE  
FL REG #00379  
SUNSHINE PROTECTIVE ENGINEERING LLC  
255 PRIMERABUILD, SUITE 160  
LAKE WORTH, FL 33464  
(407) 716-1147

BILL OF MATERIALS		
EQUIPMENT	QTY	DESCRIPTION
SOLAR PV MODULE	7	LONGI SOLAR LR5-54HAB-400M MODULES
MICRO INVERTER	15	ENPHASE IQ8A-72-2-US (240V) MICRO-INVERTERS
JUNCTION BOX	01	JUNCTION BOX 600V, NEMA 3R UL LISTED
COMBINER BOX	01	ENPHASE IQ COMBINER BOX (X-IQ-AM1-240-5/5C)
AC DISCONNECT	1	30A RATED NON-FUSED AC DISCONNECT
GATEWAY	1	FRANKLIN aGATE X ENERGY MANAGEMENT DEVICE
BATTERY	1	FRANKLIN aPOWER X BATTERY, 13.6KWH
BREAKER	2	20A/2P BREAKER
MAIN BREAKER	1	30A/2P BREAKER
RAIL	4	125A/2P MAIN BREAKER
SPLICE	0	IRONRIDGE XR100 RAIL, 168"
GROUNDING LUG	6	SPLICE KIT
ATTACHMENT	20	GROUNDING LUG
MID CLAMPS	8	S-5/ PROTEA BRACKET PV ATTACHMENT @48" O.C.
END CLAMPS	12	MID CLAMPS

NEW SYSTEM SUMMARY

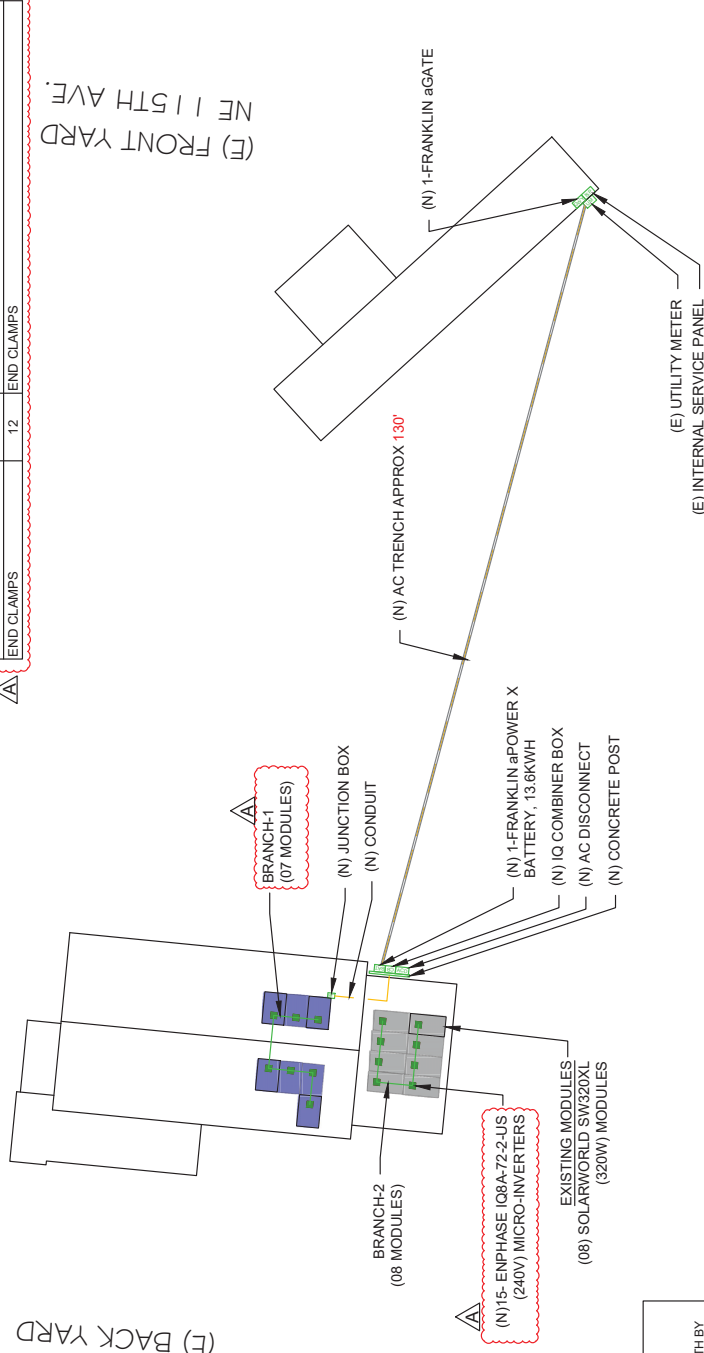
DC SYSTEM SIZE: 2.80 kW DC STC  
AC SYSTEM SIZE: 5.23 kW AC

7 LONGI SOLAR LR5-54HAB-400M MODULES  
15 ENPHASE IQ8A-72-2-US (240V) MICRO-INVERTERS  
(01) BRANCH OF 07 MODULES  
(01) BRANCH OF 08 MODULES

EXISTING SYSTEM SUMMARY

DC SYSTEM SIZE: 2.56 kW DC STC  
(08) SOLARWORLD SW320XL (320W) MODULES

TOTAL SYSTEM SIZE (EXISTING + NEW)  
DC SYSTEM SIZE: (N) 2.80 + (E) 2.56 = 5.36 kW DC STC



LEGEND

ISP

CB

BAT

GWY

ACD

MSP

UMI

JB

OB

T

C

- INTERNAL SERVICE PANEL

- COMBINER BOX

- BATTERY

- GATEWAY

- AC DISCONNECT

- UTILITY METER MAIN COMBO

- JUNCTION BOX


- MICRO INVERTER

- ROOF OBSTRUCTION

- TRENCH

- CONDUIT

ELECTRICAL CERTIFICATION STATEMENT:  
SUBJECT PV SYSTEM HAS BEEN DESIGNED TO MEET THE REQUIREMENTS OF THE NEC 2020, AND/OR 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. HB1021 AMENDED F.S. 377.05 IN 2017 REMOVED THE REQUIREMENT FOR DESIGNERS TO HAVE THEIR SYSTEM DESIGNS CERTIFIED BY FSEC. THE VERBIAGE PURSUANT TO F.S. 377.05(1)(b) HAS BEEN REMOVED FROM THE MOST RECENT VERSION OF THE FLORIDA BUILDING CODE. ALLOWS LICENSED ENGINEERS TO DESIGN PV SYSTEMS ON THEIR OWN AS THEY DO IN ALL OTHER TRADES.



**SOLAR TREK INC.**  
3347 SW 7TH ST.,  
OCALA, FL 34474

REVISIONS

DESCRIPTION	DATE	REV
CLIENT COMMENT	02/14/2025	A

DATE: 10/30/2024

PROJECT NAME

LINDA IACOVINI  
RESIDENCE  
1232 NE 115TH AVE.  
SILVER SPRINGS, FL 34488

SHEET NAME

MICRO INVERTER  
DATA SHEET

SHEET SIZE

ANSI B  
11" X 17"

SHEET NUMBER

DS-02

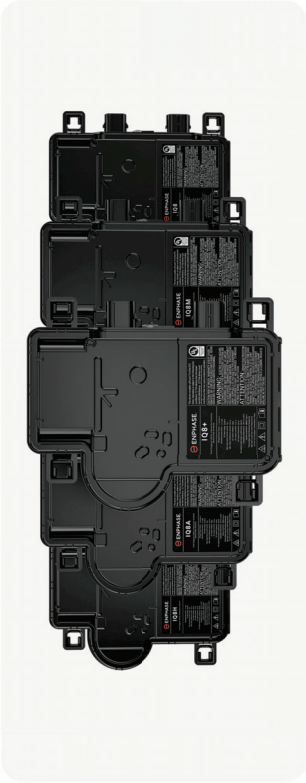
Signature with Seal

JEFFREY A. TORRES, PE  
FL PE #00379  
SUNSMART CONSULTING LLC  
255 PRIMERA BLVD, SUITE 160  
LAKE MARY, FL 34486  
(407) 710-147

IQ8 Series Microinverters

INPUT DATA (DC)	IQ8-80-2-US	IQ8PUS-72-2-US	IQ8H-72-2-US	IQ8H-240-72-2-US	IQ8H-288-72-2-US
Commonly used module pairings*	235 - 350	235 - 440	260 - 460	260 - 500	320 - 540+
Module compatibility	60-cell/120 half-cell	60-cell/120 half-cell	60-cell/120 half-cell	66-cell/132 half-cell and 72-cell/144 half-cell	265 - 500+
MPPT voltage range	27 - 37	29 - 45	33 - 45	36 - 45	38 - 45
Operating range	25 - 48			25 - 58	
Min/max start voltage	30 / 48			30 / 58	
Max input DC voltage	50			60	
Max DC current† [module IEC]			15		
Overvoltage class DC port			II		
DC port backfeed current	mA		0		
PV array configuration	1x1 Ungrounded array.No additional DC side protection required.AC side protection requires max 20A per branch circuit				
OUTPUT DATA (AC)	IQ8-80-2-US	IQ8PUS-72-2-US	IQ8H-72-2-US	IQ8H-240-72-2-US	IQ8H-288-72-2-US
Peak output power	245	300	330	366	366
Max continuous output power	240	290	325	349	360
Nominal (L-L) voltage/range*		240 / 211 - 264		208 / 183 - 250	
Max continuous output current	1.0	1.21	1.35	1.45	1.58
Nominal frequency					1.73
Extended frequency range			50 - 68		
AC short circuit fault current over 3 cycles		2			4.4
Max units per 20 A (L-L) branch circuit*	16	13	11	11	10
Total harmonic distortion			<5%		9
Overvoltage class AC port			III		
AC port backfeed current	mA		30		
Power factor setting			1.0		
Grid-tied power factor (adjustable)			0.85 leading - 0.85 lagging		
Peak efficiency	97.5	97.6	97.6	97.6	97.4
CEC weighted efficiency	97	97	97	97.5	97
Night-time power consumption	mW		60		
MECHANICAL DATA					
Ambient temperature range	-40°C to +60°C (-40°F to +140°F)				
Relative humidity range	4% to 100% (condensing)				
DC Connector type	IMC4				
Dimensions (HxWxD)	215 mm (8.37") x 175 mm (6.97") x 30.2 mm (1.27")				
Weight	1.08 kg (2.38 lbs)				
Cooling	Natural convection - no fans				
Approved for wet locations	Yes				
Pollution degree	PD3				
Enclosure	Class II double-insulated, corrosion resistant polymeric enclosure				
Environment category / UV exposure rating	NEMA Type 6 / outdoor				
COMPLIANCE					
Certifications	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. 1071-01				

† The IQ8H-208 variant will be operating in grid-tied mode only at 208V AC. ‡ Do not enforce DC/AC ratio. See the compatibility calculator at <https://link.enphase.com/module-compatibility>. (3) Maximum continuous input DC currents 10.6A (4) Nominal voltage range can be extended beyond nominal if required by the utility. (5) Limits may vary. Refer to local requirements to define the number of microinverters per branch in your area.



IQ8 Series Microinverters

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



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



IQ8 Series Microinverters redefine reliability standards with more than one million cumulative hours of testing and the Enphase App monitoring and analysis software.



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



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

Easy to install

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

High productivity and reliability

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

Microgrid-forming

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

\* Only when installed with IQ System Controller 2, meets UL 1741. IQ8H-208V operates only in grid-tied mode.  
\*\* IQ8 Series Microinverters supports split-phase, 240V. IQ8H-208 supports split-phase, 208V only.

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



X-IQ-AMT-240-5  
X-IQ-AMT-240-5C

## IQ Combiner 5/5C

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

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



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



**IQ System Controller 3/3G**  
Provides microgrid interconnection device (MID) functionality by automatically detecting grid failures and seamlessly transitioning the home energy system from grid power to backup power.



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



**IQ Load Controller**  
Helps prioritize essential appliances during a grid outage to optimize energy consumption and prolong battery life.



5-year limited warranty

\*For country-specific warranty information, see the <https://enphase.com/installer/resources/warranty> page.  
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## IQ Combiner 5/5C

MODEL NUMBER	DESCRIPTION
IQ Combiner 5 (X-IQ-AMT-240-5)	IQ Combiner 5 with IQ Gateway printed circuit board for integrated revenue-grade PV production metering (ANSI C12.20 0.5%), consumption monitoring (2.5%), and IQ Battery monitoring (2.5%). Includes a silver solar shield to deflect heat.
IQ Combiner 5C (X-IQ-AMT-240-5C)	IQ Combiner 5C with IQ Gateway printed circuit board for integrated revenue-grade PV production metering (ANSI C12.20 0.5%), consumption monitoring (2.5%), and IQ Battery monitoring (2.5%). Includes Enphase Mobile Connect cellular modem (CELLMODEM-MT-06-SP-05). Includes a silver solar shield to deflect heat.
WHAT'S IN THE BOX	
IQ Gateway printed circuit board	IQ Gateway is the platform for total energy management for comprehensive, remote maintenance, and management of the Enphase Energy System
Busbar	80 A busbar with support for 1-IQ Gateway breaker and 4 - 20 A breaker for installing IQ Series Microinverters and IQ Battery 5P
IQ Gateway breaker	Circuit breaker, 2-pole, 10 A/15 A
Production CT	Pre-wired revenue-grade solid-core CT, accurate up to 0.5%
Consumption CT	Two consumption metering clamp CTs, shipped with the box, accurate up to 2.5%
IQ Battery CT	One battery metering clamp CT, shipped with the box, accurate up to 2.5%
CTRL board	Control board for wired communication with IQ System Controller 3/3G and the IQ Battery 5P
Enphase Mobile Connect (only with IQ Combiner 5C)	4G-based LTE-M cellular modem (CELLMODEM-MT-06-SP-05) with a 5-year 1-Mobile data plan
Accessories kit	Spare control headers for the COMMS-KIT-02 board
ACCESSORIES AND REPLACEMENT PARTS (NOT INCLUDED, ORDER SEPARATELY)	
CELLMODEM-MT-06-SP-05	4G-based LTE-M cellular modem with a 5-year 1-Mobile data plan
CELLMODEM-MT-06-AT-05	4G-based LTE-M cellular modem with a 5-year AT&T data plan
Circuit breakers (off-the-shelf)	Supports Eaton IEC9X, Siemens CQ2X and GE/ABB THQV 2HX Series circuit breakers. CT represents 10, 15, 20, 30, 40, 50, or 60. Also supports Eaton BR220B, BR230B, and BR240B circuit breakers compatible with the hold-down kit.
Circuit breakers (provided by Enphase)	BRK-10A-2-240V BRK-15A-2-240V BRK-20A-2P-240V BRK-15A-2P-240V-B, and BRK-20A-2P-240V-B (more details in the "Accessories" section)
XA-SOLARSHELD-ES	Replacement solar shield for IQ Combiner 5/5C
XA-EN2-PCBA-5	IQ Gateway replacement printed circuit board (PCB) for IQ Combiner 5/5C
XA-COMMS2-PCBA-5	Hold-down kit compatible with Eaton BR-8 Series circuit breakers (with screws)
ELECTRICAL SPECIFICATIONS	
Rating	80 A
System voltage and frequency	120/240 VAC, 60 Hz
Busbar rating	125 A
Fault current rating	10 kAIC
Maximum continuous current rating (input from PV/storage)	64 A
Branch circuits (solar and/or storage)	Up to four 2-pole Eaton BR, Siemens Q, or GE/ABB THQL Series distributed generation (DG) breakers only (not included)
Maximum total branch-circuit breaker rating (input)	60 A of distributed generation per A with IQ Gateway is not included
IQ Gateway breaker	10 A or 15 A rating GE/Siemens/Eaton included
Production metering CT	200 A solid core pre-installed and wired to IQ Gateway
Consumption monitoring CT (CT-200-CLAMP)	A pair of 200 A clamp-style current transformers is included with the box
IQ Battery metering CT	200 A clamp-style current transformer for IQ Battery metering, included with the box

1. A plug-and-play integrated grade wall modem for systems of up to 60 microinverters. Available in the United States, Canada, Mexico, Puerto Rico, and the US Virgin Islands, where there is adequate cellular service for the installation area.

IOC-5-5C-DSH-00007-3.D-EN-US-2024-03-01

IOC-5-5C-DSH-00007-3.D-EN-US-2024-03-01



**SOLAR TREK INC.**  
3347 SW 7TH ST.,  
OCALA, FL 34474

REVISIONS	DATE	REV
DESCRIPTION	10/14/2025	A
CLIENT COMMENT		
PROJECT NAME	DATE: 10/20/2024	

LINDA IACOVINI  
RESIDENCE

1232 NE 115TH AVE,  
SILVER SPRINGS, FL 34488

SHEET NAME  
**COMBINER  
DATA SHEET-1**

SHEET SIZE  
**ANSI B  
11" X 17"**

SHEET NUMBER  
**DS-03**

Signature with Seal

JEFFREY A. TORRES, PE  
FL PE #00379  
SUNSMART ENGINEERING LLC  
255 PRIMER ABLVD, SUITE 160  
LAKE WORTH, FL 33466  
(407) 710-1147

Accessories

MECHANICAL DATA	
Dimensions (W x H x D)	37.5 cm x 49.5 cm x 18.8 cm (14.75" x 19.5" x 6.63"). Height is 21.06" (53.3 cm) with mounting brackets
Weight	7.5 kg (16.5 lbs)
Ambient temperature range	-40°C to 40°C (-40°F to 105°F)
Cooling	Natural convection, plus heat shield
Enclosure environmental rating	Outdoor, NRTL-certified, NEMA type 3B, polycarbonate construction
Wire sizes	<ul style="list-style-type: none"><li>20 A to 50 A breaker inputs: 14 to 4 AWG copper conductors</li><li>60 A breaker branch input: 4 to 1/0 AWG copper conductors</li><li>Main busbar input: 1/0 to 2/0 AWG copper conductors</li><li>Neutral and ground: 14 to 1/0 AWG copper conductors</li><li>Always follow local code requirements for conductor sizing</li></ul>
Communication (in-premise connectivity)	Built-in Cat6 port for wired communication with IQ Battery, 5P, and IQ System Controller 3/24 Integrated power line communication for IQ Series Microinverters
Altitude	Up to 2,600 meters (8,530 feet)
COMMUNICATION INTERFACES	
Integrated Wi-Fi	802.11b/g/n (dual band 2.4 GHz/5 GHz), for connecting the Enphase Cloud through the internet
Wi-Fi range (recommended)	10 m (32.8 feet)
Bluetooth	BLE4.2, 10 m range to configure Wi-Fi SSD
Ethernet	Optional, 8/2,3, Cat6E (or Cat 6) UTP Ethernet cable (not included), for connecting to the Enphase Cloud through the internet
Cellular/Mobile Connect	CELLMODEM-MT-06-SP-05 or CELLMODEM-MT-06-AT-05 (included with IQ Combiner 5C)
Digital I/O	Digital input/output for grid operator control
USB 2.0	Mobile Connect, COMMS-KIT-01 for IQ Battery, 3/31/10/10T, COMMS-KIT-02 for IQ Battery 5P
Access point (AP) mode	For connection between the IQ Gateway and a mobile device running the Enphase Installer App
Metering ports	Up to two Consumption Cts, one IQ Battery Cts, and one Production Cts
Power line communication	90-110 Hz
Web API	See <a href="https://developer.enphase.com">https://developer.enphase.com</a>
Local API	See <a href="#">guide for local API</a>
COMPATIBLITY	
IQ Combiner with IQ Gateway	
PV	Microinverters IQ6, IQ7, and IQ8 Series Microinverters
COMMS-KIT-01 <sup>2</sup>	IQ System Controller EP200G10-M240US00
	IQ System Controller 2 EP200G10-M240US01
	IQ Battery ENCHARGE-3-IP-NA, ENCHARGE-10-IP-NA, ENCHARGE-3T-IP-NA, ENCHARGE-10T-IP-NA
COMMS-KIT-02 <sup>2</sup>	IQ System Controller 3 SC200DH1240US01, SC200G11C240US01
	IQ Battery IQBATTERY-5P-IP-NA

2. For information about IQ Combiner 5/6C compatibility with the 2<sup>nd</sup>-generation batteries, refer to the [compatibility matrix](#).

3. IQ Combiner 1/6C comes pre-equipped with COMMS-KIT-02.

IQC-5-6C-05H-00007-3-0-EN-US-2024-03-01



SOLAR TREK INC.  
3347 SW 7TH ST.,  
OCALA, FL 34474

REVISIONS		
DESCRIPTION	DATE	REV
CLIENT COMMENT	02/14/2025	A
PROJECT NAME		
DATE: 10/30/2024		

LINDA IACOVINI  
RESIDENCE

1232 NE 115TH AVE.  
SILVER SPRINGS, FL 34488

SHEET NAME  
COMBINER  
DATA SHEET-2

SHEET SIZE  
ANSI B  
11" X 17"

SHEET NUMBER  
DS-04

Signature with Seal

JEFFREY A. TORRES, PE  
FL PE #80379  
SUNSHINE ELECTRICAL ENGINEERING LLC  
FL COA #55710  
255 PRIMERA BLVD, SUITE 160  
LAKE WORTH, FL 33466  
(561) 710-1146  
(407) 710-1147



Mobile Connect

4G-based LTE-M cellular modem with a 5-year warranty. Supports Sprint and AT&T.  
CELLMODEM-MT-06-SP-05 for Sprint and  
CELLMODEM-MT-06-AT-05 for AT&T

Circuit breakers

BRK-10A-2-240V Circuit breaker, 2-pole, 10 A, Eaton BQ270  
BRK-15A-2-240V Circuit breaker, 2-pole, 15 A, Eaton BQ270  
BRK-20A-2-240V Circuit breaker, 2-pole, 20 A, Eaton BQ280  
BRK-15A-2P-240V-B Circuit breaker, 2-pole, 15 A, Eaton BQ28B  
with hold-down kit support  
BRK-20A-2P-240V-B Circuit breaker, 2-pole, 20 A, Eaton  
BQ28B with hold-down kit support

CT-200-SOLID

200 A revenue-grade solid-core Production CT  
with <0.5% error rate (replacement SKU)

CT-200-CLAMP

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





SOLAR TREK INC.  
3347 SW 7TH ST.,  
OCALA, FL 34474

REVISIONS	DATE	REV
DESCRIPTION	10/14/2025	A
CLIENT COMMENT		
DATE	10/20/2024	

PROJECT NAME

LINDA IACOVINI  
RESIDENCE

1232 NE 115TH AVE.  
SILVER SPRINGS, FL 34488

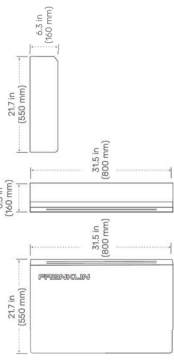
DATA SHEET

PERFORMANCE SPECIFICATIONS

Model Number	aGate X
Cooling	AC-coupled
Normal AC Voltage	120 / 208 V, 120 / 240 V, 60 Hz
Phasing	2 W-HFE
aPower Over Current Protection Device	100 A Max
Solar Input Over Current Protection Device	80 A Max
Backup Load Port Over Current Protection Device	200 A Max
Generator Over Current Protection Device	200 A Max
Smart Circuits Over Current Protection Device <sup>1</sup>	Opt. a: 1 x 80 A Max @ 208 V & 2 x 50 A Max @ 240 V Opt. b: 1 x 80 A Max @ 208 V / 240 V & 2 x 50 A Max @ 208 V / 240 V
Maximum Supply Fault Current	22 kA
Bussbar Rating	280 A
Work Modes	Self-Consumption, Time of Use, Emergency Backup
Communications	Ethernet / 4G / Wifi / Bluetooth
User Interface	FranklinWH App
Warranty	12-year limited

MECHANICAL SPECIFICATIONS

Dimensions (H x W x D)	35.5 in x 21.7 in x 6.3 in (902 mm x 550 mm x 160 mm)
Weight	38.6 lb (17.5 kg)
Mounting	Wall mount



1. Generator Module is optional.  
2. Smart Circuit Module is optional.

COMPLIANCE INFORMATION

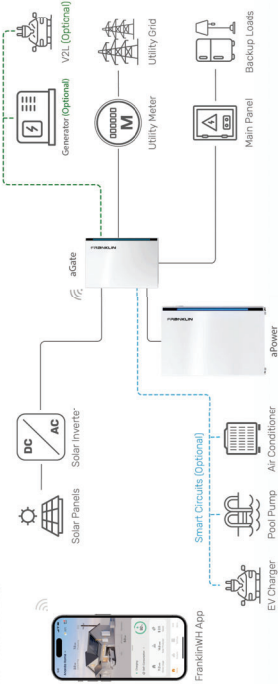
Certifications	UL 1741, UL 1741PQS, UL 67, UL 6948, UL 916, UL 9540, UL 9540P, UL 9540P2, UL 9540P3, UL 9540P4, UL 9540P5, UL 9540P6, UL 9540P7, UL 9540P8, UL 9540P9, UL 9540P10, UL 9540P11, UL 9540P12, UL 9540P13, UL 9540P14, UL 9540P15, UL 9540P16, UL 9540P17, UL 9540P18, UL 9540P19, UL 9540P20, UL 9540P21, UL 9540P22, UL 9540P23, UL 9540P24, UL 9540P25, UL 9540P26, UL 9540P27, UL 9540P28, UL 9540P29, UL 9540P30, UL 9540P31, UL 9540P32, UL 9540P33, UL 9540P34, UL 9540P35, UL 9540P36, UL 9540P37, UL 9540P38, UL 9540P39, UL 9540P40, UL 9540P41, UL 9540P42, UL 9540P43, UL 9540P44, UL 9540P45, UL 9540P46, UL 9540P47, UL 9540P48, UL 9540P49, UL 9540P50, UL 9540P51, UL 9540P52, UL 9540P53, UL 9540P54, UL 9540P55, UL 9540P56, UL 9540P57, UL 9540P58, UL 9540P59, UL 9540P60, UL 9540P61, UL 9540P62, UL 9540P63, UL 9540P64, UL 9540P65, UL 9540P66, UL 9540P67, UL 9540P68, UL 9540P69, UL 9540P70, UL 9540P71, UL 9540P72, UL 9540P73, UL 9540P74, UL 9540P75, UL 9540P76, UL 9540P77, UL 9540P78, UL 9540P79, UL 9540P80, UL 9540P81, UL 9540P82, UL 9540P83, UL 9540P84, UL 9540P85, UL 9540P86, UL 9540P87, UL 9540P88, UL 9540P89, UL 9540P90, UL 9540P91, UL 9540P92, UL 9540P93, UL 9540P94, UL 9540P95, UL 9540P96, UL 9540P97, UL 9540P98, UL 9540P99, UL 9540P100
Scientific	IEEE 1547, IEEE 1547.1, IEEE 1547.2, IEEE 1547.3, IEEE 1547.4, IEEE 1547.5, IEEE 1547.6, IEEE 1547.7, IEEE 1547.8, IEEE 1547.9, IEEE 1547.10, IEEE 1547.11, IEEE 1547.12, IEEE 1547.13, IEEE 1547.14, IEEE 1547.15, IEEE 1547.16, IEEE 1547.17, IEEE 1547.18, IEEE 1547.19, IEEE 1547.20, IEEE 1547.21, IEEE 1547.22, IEEE 1547.23, IEEE 1547.24, IEEE 1547.25, IEEE 1547.26, IEEE 1547.27, IEEE 1547.28, IEEE 1547.29, IEEE 1547.30, IEEE 1547.31, IEEE 1547.32, IEEE 1547.33, IEEE 1547.34, IEEE 1547.35, IEEE 1547.36, IEEE 1547.37, IEEE 1547.38, IEEE 1547.39, IEEE 1547.40, IEEE 1547.41, IEEE 1547.42, IEEE 1547.43, IEEE 1547.44, IEEE 1547.45, IEEE 1547.46, IEEE 1547.47, IEEE 1547.48, IEEE 1547.49, IEEE 1547.50, IEEE 1547.51, IEEE 1547.52, IEEE 1547.53, IEEE 1547.54, IEEE 1547.55, IEEE 1547.56, IEEE 1547.57, IEEE 1547.58, IEEE 1547.59, IEEE 1547.60, IEEE 1547.61, IEEE 1547.62, IEEE 1547.63, IEEE 1547.64, IEEE 1547.65, IEEE 1547.66, IEEE 1547.67, IEEE 1547.68, IEEE 1547.69, IEEE 1547.70, IEEE 1547.71, IEEE 1547.72, IEEE 1547.73, IEEE 1547.74, IEEE 1547.75, IEEE 1547.76, IEEE 1547.77, IEEE 1547.78, IEEE 1547.79, IEEE 1547.80, IEEE 1547.81, IEEE 1547.82, IEEE 1547.83, IEEE 1547.84, IEEE 1547.85, IEEE 1547.86, IEEE 1547.87, IEEE 1547.88, IEEE 1547.89, IEEE 1547.90, IEEE 1547.91, IEEE 1547.92, IEEE 1547.93, IEEE 1547.94, IEEE 1547.95, IEEE 1547.96, IEEE 1547.97, IEEE 1547.98, IEEE 1547.99, IEEE 1547.100
Environmental	Operating Temperature: -4°F to 122°F (-20°C to 50°C) Operating Humidity (RH): Up to 100% RH (condensing) Altitude: Maximum 9,843 ft (3,000 m) Environment: Indoor and outdoor rated
Emissions	FCC Part 15 Class B, ICES 003

ENVIRONMENTAL SPECIFICATIONS

Enclosure Type	NEMA 3R
Operating Temperature	-4°F to 122°F (-20°C to 50°C)
Operating Humidity (RH)	Up to 100% RH (condensing)
Altitude	Maximum 9,843 ft (3,000 m)
Environment	Indoor and outdoor rated

Franklin Home Power Solution

Whole Home Backup



Address: 1331 Technology Dr., Suite 530 San Jose, CA 95128 Telephone: +1 888-837-5455 Email: info@franklinwh.com Website: www.franklinwh.com  
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aGate

Intelligent energy management system

The aGate serves as the controller for all home power sources by interconnecting solar, grid, batteries, and a standby generator to supply electricity to the home. It seamlessly transitions the home supply from grid power to backup power so that always-on appliances, such as the refrigerator and network router, will not be affected when the grid goes down.

The aGate can be installed at the service entrance, connected to the main load center, or used as a load center.



Robust

- ✓ Micro-grid interconnect device (MID)
- ✓ EMS integrated PV and grid metering
- ✓ UL1741 certified PCS function & 280A busbar to avoid Main Panel Upgrades
- ✓ 12-year limited warranty



Hassle-free

- ✓ Precise control of electricity usage through Smart Circuits Module
- ✓ Standby generator integration via generator module
- ✓ Remarkable black start function ensures battery charge after a prolonged outage or extended trip
- ✓ Vehicle to loads (V2L) function to power essential home appliances during an emergency
- ✓ Commissioning through the aGate Wifi hotspot or Bluetooth



Flexible

- ✓ Compatible with micro and string solar inverter
- ✓ Indoor and outdoor / wall-mounted



Easy installation

- ✓ Built-in design Smart Circuits and Generator Modules
- ✓ Conduit entry options from the bottom, left, or right



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SOLAR TREK INC.  
3347 SW 7TH ST.,  
OCALA, FL 34474

REVISIONS	DATE	REV
DESCRIPTION		
CLIENT COMMENT	02/14/2025	A

DATE: 10/20/2024  
PROJECT NAME

LINDA IACOVINI  
RESIDENCE

1232 NE 115TH AVE,  
SILVER SPRINGS, FL 34488

SHEET NAME  
BATTERY  
DATA SHEET

SHEET SIZE  
ANSI B  
11" X 17"

SHEET NUMBER  
DS-06

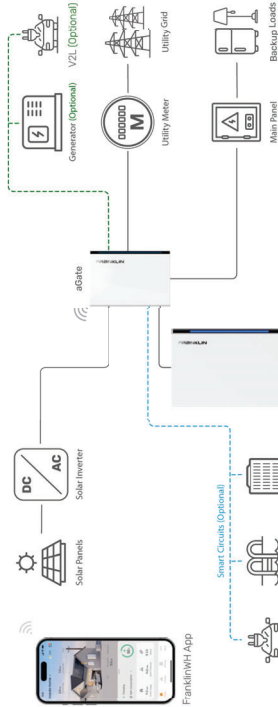
Signature with Seal

JEFFREY A. TORRES, PE  
FL PE #00379  
SUNSMART ENGINEERING LLC  
FL COA #55710  
255 PRIMERA BLVD, SUITE 160  
LAKE WORTH, FL 33466  
(407) 710-147

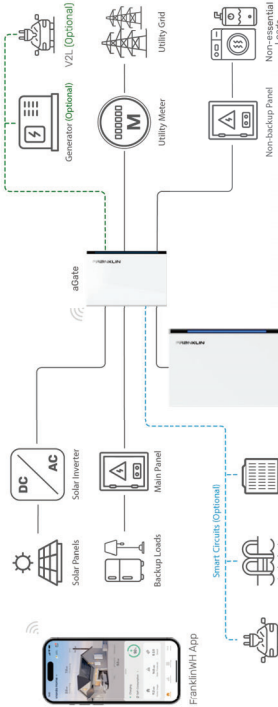
DATASHEET

Franklin Home Power Solution

Whole Home Backup



Partial Home Backup



FRANKLINWH

Address: 7371 Technology Dr., Suite 530 San Jose, CA 95110 Telephone: +1 888-837-2655 Email: info@franklinwh.com Website: www.franklinwh.com  
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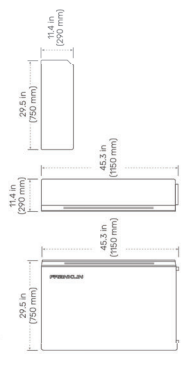
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- Normal operations down to -4°F (-20°C)
- IP67 protection
- Single aPower capable of starting a 4-Ton AC
- First-of-its-kind 208 V compliant battery for multi-family housing

MECHANICAL SPECIFICATIONS

Model Number	aPower-X
Battery Chemistry	Lithium Iron Phosphate (LFP)
Usable System Energy	13.6 kWh per unit, up to 15 units per aGate
Aggregate Throughput	43 MWh
Real Power (Charge)	5 kW continuous, 7.6 kW peak for 30 minutes
Real Power (Discharge)	5 kW continuous, 10 kW peak for 10 seconds
Load Start Capability	118 A LRA/
Normal AC Voltage	120 / 208 V, 120 / 240 V, 60 Hz
Coupling	AC-coupled
Phase	2 W+N-PE
Round Trip Efficiency	89%
Work Modes	Self-Consumption, Time of Use, Emergency Backup
Noise Emission	<30 dBA (A)
User Interface	FranklinWH App
Warranty	12 years



ENVIRONMENTAL SPECIFICATIONS

Ingress Protection	IP67 (Battery and power converter system)
Operating Temperature	IP55 (living compartment)
Operating Humidity (RH)	-4°F to 122°F (-20°C to 50°C)
Altitude	Up to 1006 ft., condensing
Environment	Maximum 9.845 ft (3,000 m)
	Indoor and outdoor rated

3. At beginning of life, AC to battery to AC, 50% power rating.  
4. 5 kW discharge power, no fan running.

FRANKLINWH

aPower  
AC-coupled battery

Store solar generated power while the sun is shining. Use the stored energy when needed to lower electric bills. Run heavy loads such as air conditioners and water heaters as usual even during grid outages. Provide homeowner peace of mind by fully charging before severe weather events.

- Safe LFP chemistry
- Built-in inverter
- 13.6 kWh per unit, up to 204 kWh (15 units) per aGate
- 5 kW continuous / 10 kW peak for 10s (discharge)

PERFORMANCE SPECIFICATIONS

Model Number	aPower-X
Battery Chemistry	Lithium Iron Phosphate (LFP)
Usable System Energy	13.6 kWh per unit, up to 15 units per aGate
Aggregate Throughput	43 MWh
Real Power (Charge)	5 kW continuous, 7.6 kW peak for 30 minutes
Real Power (Discharge)	5 kW continuous, 10 kW peak for 10 seconds
Load Start Capability	118 A LRA/
Normal AC Voltage	120 / 208 V, 120 / 240 V, 60 Hz
Coupling	AC-coupled
Phase	2 W+N-PE
Round Trip Efficiency	89%
Work Modes	Self-Consumption, Time of Use, Emergency Backup
Noise Emission	<30 dBA (A)
User Interface	FranklinWH App
Warranty	12 years

COMPLIANCE INFORMATION

Certifications	UL 9540, UL 9540A, UL 1741, UL 9731, IEEE 1547, IEEE 1547.1, UN 38.3, CAN/CSA C22.2 No. 107.1-16
Seismic	AC 15A, OSHD, IEEE 692-2005 (high)
Environmental	California Proposition 65 RoHS REACH FCC Part 15 Class B, CECE 005
Emissions	

1. For 100 / 200V applications, max. 4 aPowers per aGate can be connected in parallel. Please contact us for more details.  
2. Use of aPower requires a compatible inverter.

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# Hi-MO 5

## LR5-54HABB

### 390~415M

- Suitable for distributed projects
- Advanced module technology delivers superior module efficiency
  - MID Gallium-doped Wafer
  - Integrated Segmented Ribbons
  - 9-busbar Half-cut Cell
- Globally validated bifacial energy yield
- High module quality ensures long-term reliability



25-year Warranty for Extra Materials and Processing



30-year Warranty for Extra Linear Power Output

#### Complete System and Product Certifications

- IEC 61215 IEC 61730 UL 6170
- ISO9001:2015 ISO 14001:2015
- ISO45001:2018
- IEC62941



## Hi-MO 5

21.3%  
MAX MODULE EFFICIENCY

0~3%  
POWER TOLERANCE

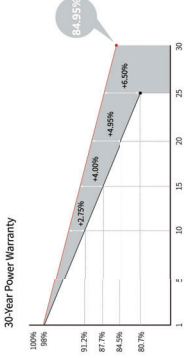
<2%  
FIRST YEAR POWER DEGRADATION

0.45%  
YEAR 2-30 POWER DEGRADATION

0.45%  
YEAR 2-30 POWER DEGRADATION

HALF-CELL  
Lower operating temperature

#### Additional Value



#### Mechanical Parameters

Cell Orientation	IP68, three diodes
Junction Box	4mm <sup>2</sup> , ±1200mm
Output Cable	length can be customized
Glass	Dual glass, 2.0+1.6mm heat strengthened glass
Frame	Anodized aluminum alloy frame
Weight	22.5kg
Dimension	1722×1134×30mm
Packaging	36pcs per pallet / 216pcs per 20' GP / 936pcs or 792pcs only for USA per 40' HC

#### Electrical Characteristics

Module Type	STC: AM1.5 1000W/m <sup>2</sup> 25°C			NOCT: AM1.5 800W/m <sup>2</sup> 20°C 1m/s		
	STC	NOCT	STC	NOCT	STC	NOCT
LR5-54HABB-350M	390	291.5	395	295.2	400	302.7
LR5-54HABB-400M	36.58	34.39	36.61	37.05	37.29	35.06
LR5-54HABB-402M	13.57	10.95	13.65	13.72	11.07	11.13
LR5-54HABB-413M	30.47	28.43	30.70	28.66	31.18	29.09
LR5-54HABB-415M	12.80	10.26	12.87	10.31	12.99	10.41
LR5-54HABB-415M	20.0	20.2	20.5	20.7	21.0	21.3

#### Electrical characteristics with different rear side power gain (reference to 400W front)

Power Gain	Voc/V	Isc/A	Vmp/V	Imp/A	Power gain
420	37.05	14.41	30.94	13.58	5%
440	37.05	15.09	30.94	14.22	10%
460	37.15	15.78	31.04	14.87	15%
480	37.15	16.46	31.04	15.52	20%
500	37.15	17.15	31.04	16.16	25%

#### Operating Parameters

Operational Temperature	-40°C ~ +85°C
Power Output Tolerance	0 ~ 3%
Voc and Isc Tolerance	±3%
Maximum System Voltage	DC1500V (IEC/UL)
Maximum Series Fuse Rating	30A
Nominal Operating Cell Temperature	45±2°C
Protection Class	Class II
Bifaciality	70±5%
Fire Rating	UL Similar type 3B *

\*Referenced Standard UL16170 Second Edition, Dated October 20, 2002



No. 6358 Shengze Road, Xi'an Economic Development Zone, Xi'an, Shaanxi, China.  
Web: www.longi.com

Specifications included in this datasheet are subject to change without notice. LONGI reserves the right of final interpretation.  
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SOLAR TREK INC.  
3347 SW 7TH ST.,  
OCALA, FL 34474

REVISIONS	DATE	REV
DESCRIPTION		
CLIENT COMMENT	02/14/2025	A

PROJECT NAME

LINDA IACOVINI  
RESIDENCE  
1232 NE 115TH AVE.  
SILVER SPRINGS, FL 34488

SHEET NAME  
MODULE  
DATA SHEET

SHEET SIZE  
ANSI B  
11" X 17"

SHEET NUMBER  
DS-01

Signature with Seal

JEFFREY A. TORRES, PE  
FL PE #00379  
SUNSMAR, LLC  
FL COA #53710  
255 PRIMER AVE, SUITE 160  
LAKE WORTH, FL 33466  
(407) 716-1147



## Certificate Of Completion

Envelope Id: D9C05CE7-042B-4706-932B-0A8A190DC3B0

Status: Completed

Subject: SIGNATURE: Net-Metering Agreement - Linda Iacovini (ELE/250525)

Source Envelope:

Document Pages: 29

Signatures: 5

Envelope Originator:

Certificate Pages: 5

Initials: 0

April Adolf

AutoNav: Enabled

110 SE Watula Avenue

Envelopeld Stamping: Enabled

City Hall, Third Floor

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

Ocala, FL 34471

aadolf@ocalafl.gov

IP Address: 216.255.240.104

## Record Tracking

Status: Original

Holder: April Adolf

Location: DocuSign

4/7/2025 7:06:08 PM

aadolf@ocalafl.gov

Security Appliance Status: Connected

Pool: StateLocal

Storage Appliance Status: Connected

Pool: City of Ocala - Procurement & Contracting

Location: Docusign

## Signer Events

William E. Sexton

wsexton@ocalafl.org

City Attorney

City of Ocala

Security Level: Email, Account Authentication  
(None)

## Signature

DocuSigned by:

*William E. Sexton*

B07DCFC4E86E429...

## Timestamp

Sent: 4/7/2025 7:13:52 PM

Viewed: 4/8/2025 9:07:26 AM

Signed: 4/8/2025 9:08:13 AM

Signature Adoption: Pre-selected Style

Using IP Address: 216.255.240.104

## Electronic Record and Signature Disclosure:

Not Offered via Docusign

Janice Mitchell

jmitchell@Ocalafl.org

CFO

City of Ocala

Security Level: Email, Account Authentication  
(None)

Signed by:

*Janice Mitchell*

55198B43858A4E1...

Sent: 4/8/2025 9:08:17 AM

Viewed: 4/8/2025 12:22:26 PM

Signed: 4/8/2025 12:23:02 PM

Signature Adoption: Pre-selected Style

Using IP Address: 216.255.240.104

## Electronic Record and Signature Disclosure:

Accepted: 4/8/2025 12:22:26 PM

ID: 191bfc2b-0c3f-4977-b0be-1633432e3a08

Chris Gowder

chris.gowder@fmpa.com

Chief Sys Ops & Tech Officer

Security Level: Email, Account Authentication  
(None)

DocuSigned by:

*Chris Gowder*

087F58EBB34B474...

Sent: 4/8/2025 12:23:04 PM

Viewed: 4/8/2025 12:26:54 PM

Signed: 4/8/2025 12:27:03 PM

Signature Adoption: Uploaded Signature Image

Using IP Address: 38.77.131.2

## Electronic Record and Signature Disclosure:

Accepted: 4/8/2025 12:26:54 PM

ID: a56be473-589d-4ab4-9e48-32cec34b2f17

## In Person Signer Events

## Signature

## Timestamp

## Editor Delivery Events

## Status

## Timestamp

## Agent Delivery Events

## Status

## Timestamp

## Intermediary Delivery Events

## Status

## Timestamp

Certified Delivery Events	Status	Timestamp
Carbon Copy Events	Status	Timestamp
Witness Events	Signature	Timestamp
Notary Events	Signature	Timestamp
Envelope Summary Events	Status	Timestamps
Envelope Sent	Hashed/Encrypted	4/7/2025 7:13:53 PM
Certified Delivered	Security Checked	4/8/2025 12:26:54 PM
Signing Complete	Security Checked	4/8/2025 12:27:03 PM
Completed	Security Checked	4/8/2025 12:27:03 PM
Payment Events	Status	Timestamps
Electronic Record and Signature Disclosure		

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

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- ii. send us an email to [contracts@ocalafl.org](mailto:contracts@ocalafl.org) and in the body of such request you must state your email, full name, mailing address, and telephone number. We do not need any other information from you to withdraw consent.. The consequences of your withdrawing consent for online documents will be that transactions may take a longer time to process..

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