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: Adam W. Nye

Mailing Address: 3938 SE 15th Street

City: Ocala State: FL Zip Code: 34471

Phone Number: 352-480-9692 Alternate Phone Number: 352-303-8511

Email Address: SLNYE70@YAHOO.COM Fax Number: _____

Ocala Electric Utility Customer Account Number: 521378-230043

2. RGS Facility Information

Facility Location: 3938 SE 15th Street Ocala, Fl 34471

Ocala Electric Utility Customer Account Number: 521378-230043

RGS Manufacturer: Mission Solar

Manufacturer's Address: 8303 S. New Braunfels Ave.
San Antonio, TX. 78235

Reference or Model Number: MSE395SX9R (395W) 29 Modules

Serial Number: _____

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3. Facility Rating Information

Gross Power Rating: 9.74kWac ("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: 4/2/25

4. Application Fee

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

5. Interconnection Study Fee

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

6. Required Documentation

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

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

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

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B. Documentation that the customer-owned renewable generation has been inspected and approved by local code officials prior to its operation in parallel with the Ocala Electric Utility system to ensure compliance with applicable local codes. OEU will also require proof of commission testing by a qualified 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: Adam W. Nye Date: 3/19/25
(Print Name)

(Signature)

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

Effective: October 1, 2019

Tri-Party Net-Metering Power Purchase Agreement

This Tri-Party Net-Metering Power Purchase Agreement (this "Agreement") is entered into this 3rd day of March, 20 25, 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 Adam W. Nye, 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.

(Continued on Sheet No. 20.3)

Section 7. Miscellaneous Provisions

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

7.02 Amendment. It is understood and agreed that FMPA and OEU reserve the right, on no less than an annual basis, to change any of the terms and conditions, including pricing, in this Agreement on sixty (60) days advance written notice. FMPA and OEU may make such changes on an immediate basis in the event any applicable law, rule, regulation or court order requires them. In such event, FMPA and OEU will give Customer as much notice as reasonably possible under the circumstances.

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

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

(Continued on Sheet No. 20.4)

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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OCALA ELECTRIC UTILITY
OCALA, FLORIDA
(Continued from Sheet No. 20.4)

FIRST REVISED SHEET NO. 20.5
CANCELS ORIGINAL SHEET NO. 20.5

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

City of Ocala Electric Utility

By: Signed by: Janice Mitchell 5519BB43858A4E1...
Title: CFO
Date: 6/11/2025

Florida Municipal Power Agency

By: DocuSigned by: 087F58EBB34B474...
Title: Chief Sys Ops & Tech Officer
Date: 6/11/2025

Customer

By: Adam W. Nye Date: 3/19/25
(Print Name)

(Signature)

Customer's City of Ocala Electric Utility Account Number: 521378-230043

Approved as to form and legality:

DocuSigned by: William E. Sexton B07DCFC4E85E429...
William E. Sexton, Esq.
City Attorney

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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.

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

This **Agreement** is made and entered into this 3rd day of March, 20 25, by and between Adam W. Nye, (hereinafter called "**Customer**"), located at 3938 SE 15th Street in Ocala, Florida, and the City of Ocala doing business as Ocala Electric Utility (hereinafter called OEU), a body politic. Customer and OEU shall collectively be called the "**Parties**". The physical location/premise where the interconnection is taking place: 3938 SE 15th Street Ocala, Fl 34471.

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)

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.

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OCALA ELECTRIC UTILITY
OCALA, FLORIDA

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

(Continued from Sheet No. 21.1)

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

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

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

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

(Continued on Sheet No. 21.3)

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

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

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

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

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

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

(Continued from Sheet No. 21.4)

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)

(Continued from Sheet No. 21.5)

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)

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)

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)

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:

By: Signed by: Janice Mitchell 5519B843858A4E1...

Title: CFO

Date: 6/11/2025

Customer:

By: Adam W. Nye
(Print Name)

(Signature)

Date: 3/19/25

City of Ocala Electric Utility Account Number:

521378-230043

Approved as to form and legality:

DocuSigned by: William E. Sexton 8D9DCFC4E88E439...

William E. Sexton, Esq.
City Attorney

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

Effective: October 1, 2019

kin.

222 Merchandise Mart Plaza Suite 228
Chicago IL 60654

Producer Name	Policy Number	Policy Period
		06/28/2024 to 06/28/2025

Homeowners Policy Declarations

Policy underwritten by Kin Interinsurance Network

Your Declarations Page, and your policy, please read your policy carefully, including your Declarations Page, for a complete description of your coverage.

AGENCY INFO

AGENCY NAME	AGENCY NUMBER	AGENCY EMAIL
Kin Insurance Network Distributor (KIND)	1	support@kin.com

ADDRESS
222 Merchandise Mart Plaza Suite 228
Chicago IL 60654

PHONE
(855) 717-0022

NAMED INSURED

NAME
Adam Nye

PHONE
(352) 303-8511

EMAIL
adam@jettastone.com

SECOND NAMED INSURED

NAME
Shelly Nye

PHONE

EMAIL

POLICY PERIOD

START DATE	END DATE
06/28/2024	06/28/2025

12:01 AM Standard Time at the residence premises

This policy applies only to accidents, occurrences or losses which happen during the policy period shown above, unless otherwise noted in the policy. If the policy is written on a continuous basis, each period of one year ending on the anniversary date of this policy constitutes a separate policy period.

DATE ISSUED 05/29/2024

PROPERTY ADDRESS

3938 SE 15th St
Ocala FL 34471-4929

MAILING ADDRESS

REPORT A CLAIM

Email	claims@kin.com
Website	kin.com/claims
Phone Number	(866) 204-2219

kin.

Producer Name

Policy Number

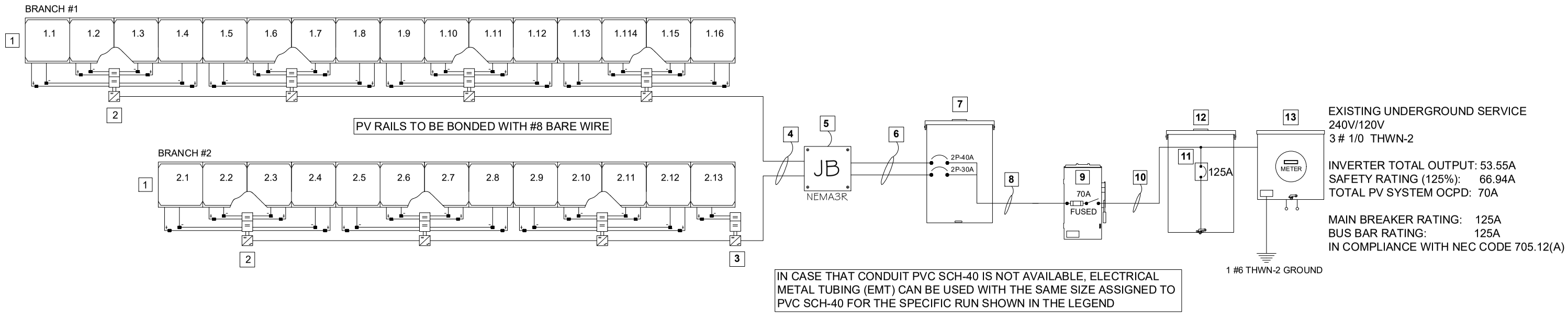
Policy Period
06/28/2024 to 06/28/2025

222 Merchandise Mart Plaza Suite 228
Chicago IL 60654

PROPERTY COVERAGES	
Section I Coverages	**Limit of Liability**
A. Dwelling	$400,000
B. Other Structure	$20,000
C. Personal Property	$160,000
D. Loss of Use	$80,000
LIABILITY COVERAGES	
Section II Coverages	**Limit of Liability**
E. Personal Liability	$300,000
F. Medical Payments	$5,000
DEDUCTIBLES	
All Other Perils	$1,000
Calendar Year Hurricane Deductible	$8,000 (2% of Coverage A)

This policy contains a separate deductible for hurricane losses and a separate deductible for all other perils insured against. The deductibles shown in your policy declaration page(s) are the deductibles that will apply as described in your policy, in the event of a covered loss. Other deductibles may be available. Please contact your insurance agent for additional information.

WIRE TAG	WIRE SIZES, QUANTITY & TYPE			RACEWAY SIZE, TYPE & LOCATION			WIRE AMPACITY CALCULATIONS							ADDITIONAL INFORMATION			
	CONDUCTOR QTY. SIZE & TYPE	NEUTRAL QTY. SIZE & TYPE	GROUND QTY. SIZE & TYPE	RACEWAY SIZE & TYPE	RACEWAY LOCATION	RACEWAY HEIGHT ABOVE ROOF	OUTPUT CURRENT (AMP)	125% OF OUTPUT CURRRENT (AMP)	MIN OCPD (AMP)	WIRE DE-RATED CALCULATION				DIST.	VOLTAGE	VOLTAGE DROP %	CONDUIT FILL %
										WIRE RATING	AMBIENT TEMPERATURE COEFFICIENT	# OF CONDUCTORS COEFFICIENT	DE-RATES AMPACITY				
AC.1 BRANCH 1 (BEFORE JB)	(1) CABLE BY HOYMILLES	N/A	(1) #8 AWG BARE COPPER	NOT APPLICABLE	UNDER ARRAY	1/2" TO 3-1/2"	23.96	29.95	30A	35A	0.76	1	26.60A	10 FT.	240V	0.11%	6.4%
AC.1 BRANCH 2 (BEFORE JB)	(1) CABLE BY HOYMILLES	N/A	(1) #8 AWG BARE COPPER	NOT APPLICABLE	UNDER ARRAY	1/2" TO 3-1/2"	20.87	26.09	30A	35A	0.76	1	26.60A	10 FT.	240V	0.11%	6.4%
AC.2 BRANCH 1 (FROM JB TO COMBINER BOX)	(2) #10 AWG THWN-2	N/A	(1) #8 AWG THWN-2	3/4"PVC SCH-40 CONDUIT	ABOVE ROOF	1/2" TO 3-1/2"	23.96	29.95	30A	35A	0.76	0.8	21.28A	20 FT.	240V	0.21%	8.1%
AC.2 BRANCH 2 (FROM JB TO COMBINER BOX)	(2) #10 AWG THWN-2	N/A	(1) #8 AWG THWN-2	3/4"PVC SCH-40 CONDUIT	ABOVE ROOF	1/2" TO 3-1/2"	20.87	26.09	30A	35A	0.76	0.8	21.28A	20 FT.	240V	0.21%	8.1%
AC.3(FROM COMBINER BOX TO SERVICE)	(2) #6 AWG THWN-2	(1) #6 AWG THWN-2	(1) #8 AWG THWN-2	3/4"PVC SCH-40 CONDUIT	EXTERIOR WALL	"N/A"	53.55A	66.94A	70A	65A	1	1	65A	5 FT.	240V	0.1%	7.7%



IN CASE THAT CONDUIT PVC SCH-40 IS NOT AVAILABLE, ELECTRICAL METAL TUBING (EMT) CAN BE USED WITH THE SAME SIZE ASSIGNED TO PVC SCH-40 FOR THE SPECIFIC RUN SHOWN IN THE LEGEND

1 ONE LINE RISER DIAGRAM

N.T.S.

LEGEND:

1	(29) MSE395SX9R (395W) MISSION SOLAR	2	(7) HMS-1600-4T BY HOYMILES	3	(1) HMS-700-2T BY HOYMILES
4	2 MI CABLE BY HOYMILLES 1 #8 BARED WIRE GROUND	5	NEMA 3R JUNCTION BOX	6	4 #10 THWN-2 1 #8 THWN-2 GROUND 3/4" PVC SCH 40 CONDUIT
7	AC LOAD CENTER RATED 125A	8	2 #6 L1,L2 THWN-2 1 #6 THWN-2 NEUTRAL 1 #8 THWN-2 GROUND 3/4" PVC SCH-40 CONDUIT	9	PV SYSTEM DISCONNECT - 100A RATED W/70A FUSES
10	2 #6 L1, L2 THWN-2 1 #6 THWN-2 NEUTRAL 3/4" PVC SCH-40 CONDUIT	11	PV INTERCONNECTION POINT - LINE SIDE TAP	12	MAIN SERVICE DISCONNECT
13	UTILITY ELECTRICAL SERVICE	14	NOT USED	15	NOT USED

DOCUMENT CONTROL	DATE	sCAD	eCAD
ISSUED FOR PERMIT	09/19/24	OM	DM

REV	DESCRIPTION	DATE	sCAD	eCAD

ENGINEER CONTACT INFORMATION
ENGIPARTNERS LLC
C.A. 32661
1692 NW 82 AVE
DORAL, FL 33126
DESIGN@ENGIPARTNERS.COM
1(888) 736-5133

ENGINEERING STAMP

CONTRACTOR CONTACT INFORMATION
AMERICAN SOLAR INSTALLATION COMPANY LLC
3241 NW 38TH/ ST, MIAMI, FL 33142
786-292-3304
CVC57234

CONTRACTOR LOGO
AMERICAN SOLAR INSTALLATION COMPANY

CUSTOMER: ADAM NYE

PROJECT ADDRESS: 3938 SE 15TH ST, OCALA , FLORIDA 34471 US

PARCEL NUMBER: 2952-007-001

SHEET NAME: ONE LINE RISER DIAGRAM

PROJECT ID:	ENGINEER OF RECORD:	SHEET TITLE:
EP01464	ENG. RAFAEL A. GONZALEZ SOTO, PE	E-1
	DATE: 09/19/24	

PROJECT DESCRIPTION

SYSTEM CAPACITY: 11.46 KW DC / 11.20 KW AC

PV MODULES: (29) MSE395SX9R (395W) MISSION SOLAR

MONITORING: (1) S-MILES CLOUD BY HOYMILES

INVERTER: (7) HMS-1600-4T BY HOYMILES
(1) HMS-700-2T BY HOYMILES

RACKING SYSTEM: UNIRAC

PROJECT INFORMATION

PROJECT LATITUDE	29.172754	MIN AMBIENT TEMP	-6 ° C
PROJECT LONGITUDE	-82.081567	MAX AMBIENT TEMP	35 ° C
AHJ	MARION COUNTY	WIND EXPOSURE	B
		DESIGN WIND SPEED	130 MPH

DRAWINGS INDEX

GENERAL NOTES

PER FL. STATUTE 377.705 (REVISED 7/1/2017), I RAFAEL A. GONZALEZ SOTO, P.E. 83104 AN ENGINEER LICENSED PURSUANT TO CHAPTER 471, CERTIFY THAT THE PV ELECTRICAL SYSTEM AND ELECTRICAL COMPONENTS ARE DESIGNED AND APPROVED USING THE STANDARDS CONTAINED IN THE MOST RECENT VERSION OF THE FLORIDA BUILDING CODE.

APPLICABLE CODES: 2023 FLORIDA BUILDING CODE 8TH EDITION, ASCE 7-22 MINIMUM DESIGN LOADS FOR BUILDING AND OTHER STRUCTURES, FFPC 8TH EDITION, NFPA 1 2021 ED. AND NEC 2020.

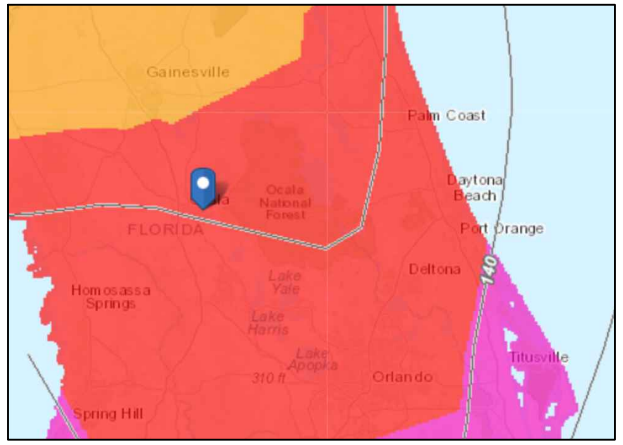
CONTRACTOR SHALL ENSURE ALL ROOF PENETRATIONS TO BE INSTALLED AND SEALED PER 2023 FLORIDA BUILDING CODE 8TH EDITION OR LOCAL GOVERNING CODE.

ALL WIRING METHODS AND INSTALLATION PRACTICES SHALL CONFORM TO THE NATIONAL ELECTRICAL CODE (NEC) 2020, LOCAL STATE CODES, AND OTHER APPLICABLE LOCAL CODES. MEANS SHALL BE PROVIDED TO DISCONNECT ALL CURRENT CARRYING CONDUCTORS OF THE PHOTOVOLTAIC POWER SOURCE FROM ALL OTHER CONDUCTORS IN THE BUILDING. CONNECTORS TO BE TORQUED PER DEVICE LISTING, OR MANUFACTURERS RECOMMENDATIONS. NON-CURRENT CARRYING METAL PARTS SHALL BE CHECKED FOR PROPER GROUNDING.

REQUIRED SAFETY SIGNS AND LABELS SHALL BE PERMANENTLY ATTACHED BY ADHESIVE, OR OTHER MECHANICAL MEANS, LABELS SHALL COMPLY WITH ARTICLE 690 VI OF THE NEC 2020 OR OTHER APPLICABLE STATE AND LOCAL CODES. SEE LABELS AND MARKING PAGE FOR MORE INFORMATION.

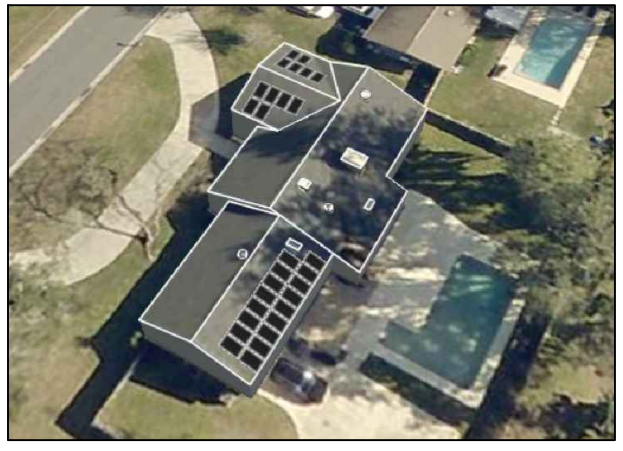
RACKING ROOF MOUNT SYSTEM SHALL BE INSTALLED FOLLOWING MANUFACTURERS INSTRUCTION SPEC'S, INCLUDING ALL GROUNDING WEEB CLIPS, GROUND LUGS, AND RAIL SPLICE KITS FOR ELECTRICAL CONTINUITY.

MECAWIND TOOL IS BASED ON THE C&C WIND LOADS FOR ENCLOSED BUILDINGS. DESIGN WIND PRESSURES ARE CALCULATED USING ASCE 7-22 EQUATION 30.3-1. ALL NOTES IN FIGURES ASCE 7-22 30.3-1 AND 30.3-2(A,B,C,D,E,F AND G) HAVE BEEN INCORPORATED. MEAN ROOF HEIGHT MUST BE LESS THAN 60 FEET.



2 LOCATION MAP / WIND ZONES
N.T.S.

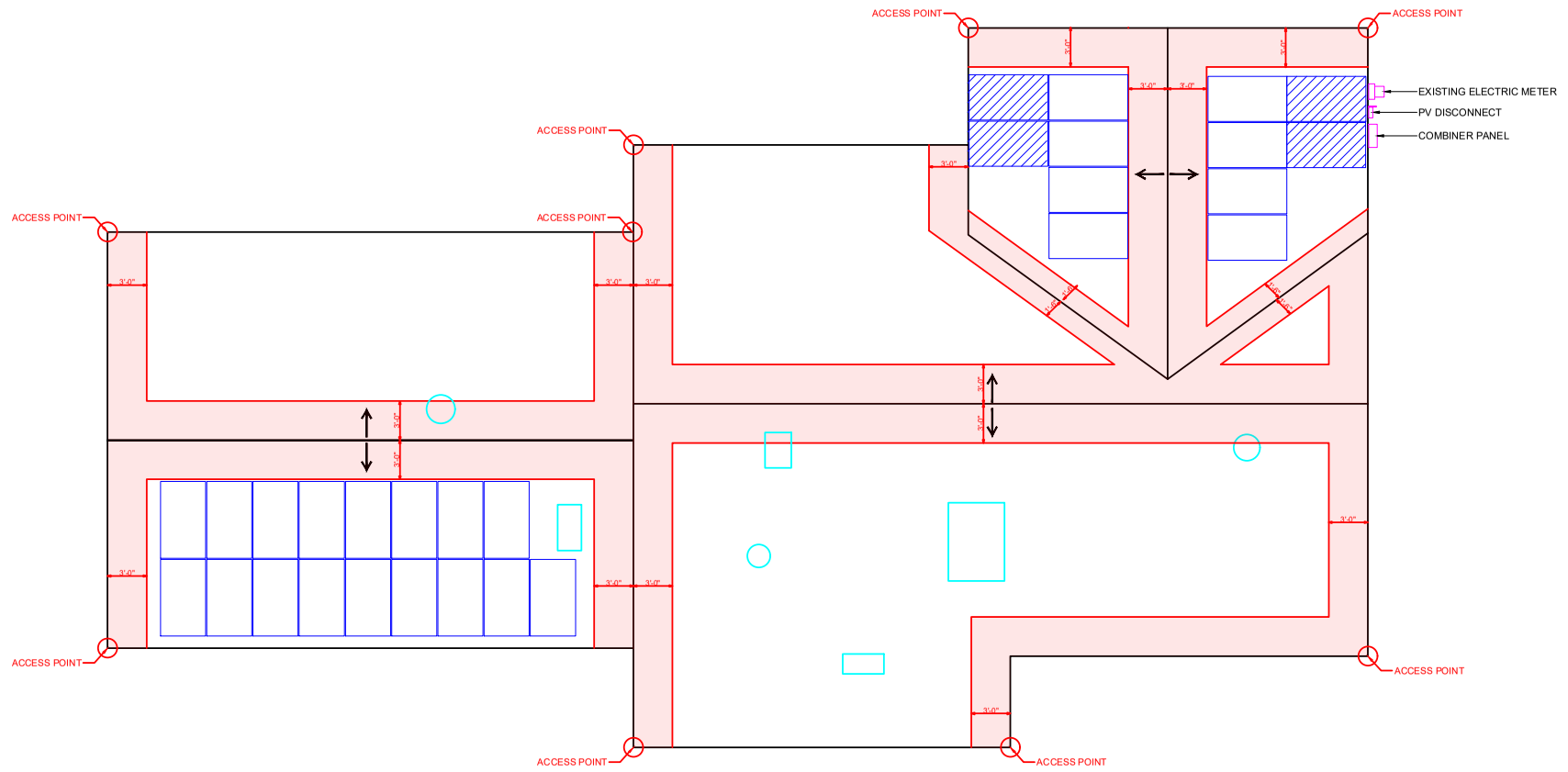
3 IRRADIANCE MAP
N.T.S.



4 3D RENDERING
N.T.S.

NORTH

"PROPERTY SIDE FACING STREET"



1 ROOF PLAN VIEW / BOS LOCATION
N.T.S.

DOCUMENT CONTROL	DATE	sCAD	eCAD
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ENGINEERING STAMP

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AMERICAN SOLAR INSTALLATION COMPANY LLC
3241 NW 38TH/ ST, MIAMI, FL 33142
786-292-3304
CVC57234

CONTRACTOR LOGO
AMERICAN SOLAR INSTALLATION COMPANY

CUSTOMER: ADAM NYE

PROJECT ADDRESS:
3938 SE 15TH ST
OCALA , FLORIDA 34471 US

PARCEL NUMBER: 2952-007-001

SHEET NAME: COVER SHEET

PROJECT ID: EP01464

ENGINEER OF RECORD: ENG. RAFAEL A. GONZALEZ SOTO, PE

DATE: 09/19/24

SHEET TITLE: C-1

hoymiles

Open Energy For All

Microinverter Datasheet

HMS-1600
HMS-1800
HMS-2000

Description

With the output power up to 2000 VA, Hoymiles new microinverter HMS-2000 series rank among the highest for 4-in-1 microinverters.

All of these three models listed are equipped with reactive power control and can meet the requirements of EN 50549-1:2019, VDE-AR-N 4105:2018, UL 1741, etc.

The new Sub-1G wireless solution enables more stable communication with Hoymiles gateway DTU.

Features

01	High-powered microinverter with output power up to 2000 VA
02	Independent MPPT and monitoring ensure greater energy harvest and easier maintenance
03	With Reactive Power Control, compliant with EN 50549-1:2019, VDE-AR-N 4105:2018, UL 1741, ABNT NBR 16150, etc.
04	4-in-1 design enables faster installation and comes with a lower cost
05	Safer for rooftop solar stations with rapid shutdown compliance and isolated transformer
06	Sub-1G wireless solution allows stable communication in commercial and industrial settings

Technical Specifications

Model	HMS-1600-4T			HMS-1800-4T			HMS-2000-4T		
Input Data (DC)									
Commonly used module power (W)	320 to 540+			360 to 600+			400 to 670+		
Maximum input voltage (V)	65								
MPPT voltage range (V)	16–60								
Start-up voltage (V)	22								
Maximum input current (A)	4 × 14			4 × 15			4 × 16		
Maximum input short circuit current (A)	4 × 25								
Number of MPPTs	4								
Number of Inputs per MPPT	1								
Output Data (AC)									
Rated output power (VA)	1600			1800			2000		
Rated output current (A)	7.27	6.96	6.67	8.18	7.83	7.5	9.09	8.7	8.33
Nominal output voltage/range (V)[1]	220/180–275	230/180–275	240/180–275	220/180–275	230/180–275	240/180–275	220/180–275	230/180–275	240/180–275
Nominal frequency/range (Hz)[1]	50/45-55 or 60/55-65								
Power factor (adjustable)	> 0.99 default 0.8 leading...0.8 lagging								
Total harmonic distortion	< 3%								
Maximum units per 10AWG branch[2]	4	4	4	3	4	4	3	3	3
Efficiency									
CEC peak efficiency	96.7%			96.5%			96.5%		
Nominal MPPT efficiency	99.8%								
Night power consumption (mW)	< 50								
Mechanical Data									
Ambient temperature range (°C)	-40 to +65								
Dimensions (W × H × D mm)	331 × 218 × 40.6								
Weight (kg)	5.56								
Enclosure rating	Outdoor-IP67 (NEMA 6)								
Cooling	Natural convection-No fans								
Features									
Communication	Sub-1G								
Type of isolation	Galvanically Isolated HF Transformer								
Monitoring	S-Miles Cloud[3]								
Compliance	EN 50549-1: 2019, VDE-AR-N 4105: 2018, UL 1741, ABNT NBR 16150, IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4, IEC/EN 61000-3-2/-3								

*1 Nominal voltage/frequency range can vary depending on local requirements.
*2 Refer to local requirements for exact number of microinverters per branch.
*3 Hoymiles Monitoring System

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REV	DESCRIPTION	DATE	sCAD	eCAD

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3241 NW 38TH/ ST, MIAMI, FL 33142
786-292-3304
CVC57234

CONTRACTOR LOGO
AMERICAN SOLAR INSTALLATION COMPANY

CUSTOMER: ADAM NYE
PROJECT ADDRESS: 3938 SE 15TH ST, OCALA , FLORIDA 34471 US
PARCEL NUMBER: 2952-007-001

SHEET NAME: INVERTER DATA SHEET
PROJECT ID: EP01464
ENGINEER OF RECORD: ENG. RAFAEL A. GONZALEZ SOTO, PE
DATE: 09/19/24
SHEET TITLE: D-2

CONTRACT# ELE/250711

hoymiles

Open Energy For All

Microinverter Datasheet

HMS-700-2T-NA
HMS-800-2T-NA
HMS-900-2T-NA
HMS-1000-2T-NA

Description

Hoymiles new microinverter HMS-1000 series are suitable for high-powered solar panels, which rank among the highest for 2-in-1 microinverters.
Each microinverter can connect up to 2 panels, with independent MPPT and monitoring maximizing the power production of your installation. With a maximum DC voltage of 65 volts, Hoymiles microinverter is a PV Rapid Shutdown Equipment and conforms with NEC-2017 and NEC-2020 Article 690.12 and CEC-2021 Sec 64-218.
The new Sub-1G wireless solution enables more stable communication with Hoymiles gateway DTU.

Features

01 High-powered microinverter for 2-in-1 series with superior performance

02 Safer for rooftop solar stations with PV rapid shutdown compliance

03 With Reactive Power Control, compliant with UL 1741, IEEE 1547, UL 1741 SB, etc.

04 Independent MPPT and monitoring ensure greater energy harvest and easier maintenance

05 2-in-1 design enables faster installation

06 Sub-1G wireless solution allows stable communication in commercial and industrial settings

Technical Specifications

Model	HMS-700-2T-NA		HMS-800-2T-NA		HMS-900-2T-NA		HMS-1000-2T-NA	
Input Data(DC)								
Commonly used module power (W)	280 to 470+		320 to 540+		360 to 600+		400 to 670+	
Maximum input voltage (V)	60		65		65		65	
MPPT voltage range (V)	16–60							
Start-up voltage (V)	22							
Maximum input current (A)	2 × 13		2 × 14		2 × 15		2 × 16	
Maximum input short circuit current (A)	2 × 20		2 × 25		2 × 25		2 × 25	
Number of MPPTs	2							
Number of Inputs per MPPT	1							
Output Data(AC)								
Peak output power (VA)	700		800		900		1000	
Maximum continuous output power (VA)	638		720		820		958	
Maximum continuous output current (A)	2.66	3.07	3	3.46	3.42	3.94	3.99	4.61
Nominal output voltage/range (V)[1]	240/211–264	208/183–228	240/211–264	208/183–228	240/211–264	208/183–228	240/211–264	208/183–228
Nominal frequency/range (Hz)[1]	60/55–65							
Power factor (adjustable)	> 0.99 default 0.8 leading ... 0.8 lagging							
Total harmonic distortion	< 3%							
Maximum units per 10 AWG branch[2]	9	7	8	6	7	6	6	5
Maximum units per 12 AWG branch[2]	6	5	5	4	4	4	4	3
Efficiency								
CEC peak efficiency	96.70%		96.70%		96.50%		96.50%	
Nominal MPPT efficiency	99.80%							
Night power consumption (mW)	< 50							
Mechanical Data								
Ambient temperature range (°C)	-40 to +65							
Dimensions (W × H × D [mm])	261 × 180 × 35.1							
Weight (kg)	3.2							
Enclosure rating	Outdoor-IP67 (NEMA6)							
Cooling	Natural convection-No fans							
Features								
Communication	Sub-1G							
Type of isolation	Galvanically Isolated HF Transformer							
Monitoring	Hoymiles S-Miles Cloud[3]							
Compliance	UL 1741, IEEE 1547, UL 1741 SB (Pending), CSA C22.2 No. 107.1-16 FCC 15B, FCC 15C							
PV Rapid Shutdown	Conforms with NEC-2017 and NEC-2020 Article 690.12 and CEC-2021 Sec 64-218 Rapid Shutdown of PV Systems.							

*1 Nominal voltage/frequency range can vary depending on local requirements.
*2 Refer to local requirements for exact number of microinverters per branch.
*3 Hoymiles Monitoring System

DOCUMENT CONTROL		DATE	sCAD	eCAD
ISSUED FOR PERMIT		09/19/24	OM	DM
REV	DESCRIPTION	DATE	sCAD	eCAD

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C.A. 32661
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DESIGN@ENGIPARTNERS.COM
1(888) 736-5133

ENGINEERING STAMP

CONTRACTOR CONTACT INFORMATION
AMERICAN SOLAR INSTALLATION COMPANY LLC
3241 NW 38TH/ ST, MIAMI, FL 33142
786-292-3304
CVC57234

CONTRACTOR LOGO
AMERICAN SOLAR INSTALLATION COMPANY

CUSTOMER: ADAM NYE
PROJECT ADDRESS: 3938 SE 15TH ST, OCALA , FLORIDA 34471 US
PARCEL NUMBER: 2952-007-001

SHEET NAME: INVERTER DATA SHEET
PROJECT ID: EP01464
ENGINEER OF RECORD: ENG. RAFAEL A. GONZALEZ SOTO, PE
DATE: 09/19/24
SHEET TITLE: D-3

CONTRACT# ELE/250711

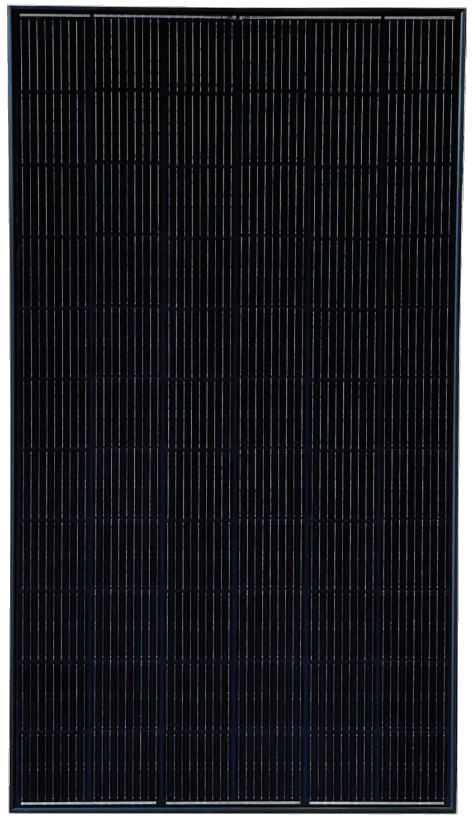
MSE PERC 66

MISSION SOLAR ENERGY

395W

Positive Power Tolerance

Class leading power output **-0 to +3%**



True American Quality
True American Brand

Mission Solar Energy is headquartered in San Antonio, Texas where we manufacture our modules. We produce American, high-quality solar modules ensuring the highest-in-class power output and best-in-class reliability. Our product line is tailored for residential, commercial and utility applications. Every Mission Solar Energy solar module is certified and surpasses industry standard regulations, proving excellent performance over the long term.

Demand the best. Demand Mission Solar Energy.

Certified Reliability
- Tested to UL 61730 & IEC Standards
- PID resistant
- Resistance to salt mist corrosion

Advanced Technology
- 9 Busbar
- Passivated Emitter Rear Contact
- Ideal for all applications

Extreme Weather Resilience
- Up to 5,400 Pa front load & 3,600 Pa back load
- Tested load to UL 61730
- 40 mm frame

BAA Compliant for Government Projects
- Buy American Act
- American Recovery & Reinvestment Act

MODULES ASSEMBLED & DESIGNED & ENGINEERED IN THE USA OF U.S. AND NON-U.S. PARTS

25 YEAR FRAME-TO-FRAME WARRANTY

FRAME-TO-FRAME WARRANTY

Degradation guaranteed not to exceed 2% in year one and 0.58% annually from years two to 30 with 84.08% capacity guaranteed in year 25.
For more information, visit www.missionsolar.com/warranty

CERTIFICATIONS

CEC · TÜV SÜD · c UL us LISTED

UL 61730 / IEC 61215 / IEC 61730 / IEC 61701

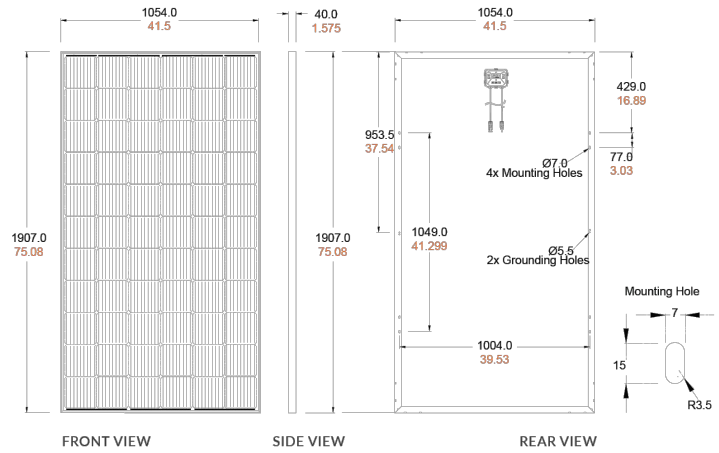
If you have questions or concerns about certification of our products in your area, please contact Mission Solar Energy.

Class Leading
390-400W

MSE PERC 66

BASIC DIMENSIONS

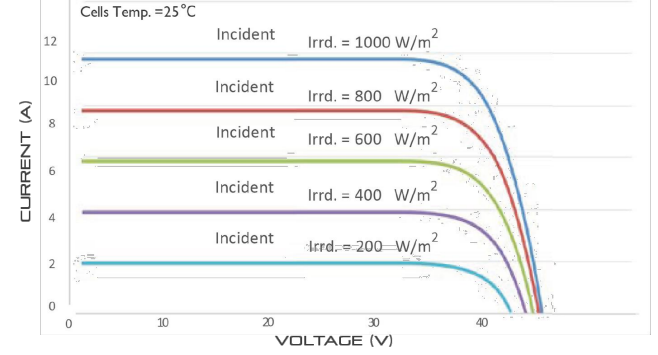
[UNITS: MM/IN]



CURRENT-VOLTAGE CURVE

MSE385SX9R: 385WP, 66 CELL SOLAR MODULE

Current-voltage characteristics with dependence on irradiance and module temperature



CERTIFICATIONS AND TESTS

IEC	61215, 61730, 61701
UL	61730

TÜV SÜD · CEC · c UL us LISTED

Mission Solar Energy
8303 S. New Braunfels Ave., San Antonio, Texas 78235
www.missionsolar.com | info@missionsolar.com

Mission Solar Energy reserves the right to make specification changes without notice.

C-SA2-MKTG-0027 REV 4 03/18/2022

www.missionsolar.com | info@missionsolar.com

ELECTRICAL SPECIFICATION

PRODUCT TYPE			MSExxxSX9R (xxx = P_{max})		
Power Output	P_{max}	W_p	390	395	400
Module Efficiency		%	19.4	19.7	19.9
Tolerance		%	0/+3	0/+3	0/+3
Short Circuit Current	I_{sc}	A	11.19	11.24	11.31
Open Circuit Voltage	V_{oc}	V	45.04	45.18	45.33
Rated Current	I_{mp}	A	10.63	10.68	10.79
Rated Voltage	V_{mp}	V	36.68	36.99	37.07
Fuse Rating		A	20	20	20
System Voltage		V	1,000	1,000	1,000

TEMPERATURE COEFFICIENTS

Normal Operating Cell Temperature (NOCT)	43.75°C (±3.7%)
Temperature Coefficient of Pmax	-0.367%/°C
Temperature Coefficient of Voc	-0.259%/°C
Temperature Coefficient of Isc	0.033%/°C

OPERATING CONDITIONS

Maximum System Voltage	1,000Vdc
Operating Temperature Range	-40°F to 185°F (-40°C to +85°C)
Maximum Series Fuse Rating	20A
Fire Safety Classification	Type 1*
Front & Back Load (UL Standard)	Up to 5,400 Pa front and 3,600 Pa back load, Tested to UL 61730
Hail Safety Impact Velocity	25mm at 23 m/s

*Mission Solar Energy uses quality sourced materials that result in a Type 1 fire rating. Please note, the 'Fire Class' Rating is designated for the fully-installed PV system, which includes, but is not limited to, the module, the type of mounting used, pitch and roof composition.

MECHANICAL DATA

Solar Cells	P-type mono-crystalline silicon
Cell Orientation	66 cells (6x11)
Module Dimension	1,907mm x 1,054mm x 40mm
Weight	48.5 lbs. (22 kg)
Front Glass	3.2mm tempered, low-iron, anti-reflective
Frame	40mm Anodized
Encapsulant	Ethylene vinyl acetate (EVA)
Junction Box	Protection class IP67 with 3 bypass-diodes
Cable	1.2m, Wire 4mm2 (12AWG)
Connector	Staubli PV-KBT4/6II-UR and PV-KST4/6II-UR, MC4, Renhe 05-8

SHIPPING INFORMATION

Container Feet	Ship To	Pallet	Panels	390W Bin
53'	Most States	30	780	304.20 kW
Double Stack	CA	26	676	263.64 kW

PALLET [26 PANELS]

Weight	Height	Width	Length
1,300 lbs. (572 kg)	47.56 in (120.80 cm)	46 in (116.84 cm)	77 in (195.58 cm)

DOCUMENT CONTROL		DATE	sCAD	eCAD
ISSUED FOR PERMIT		09/19/24	OM	DM
REV	DESCRIPTION	DATE	sCAD	eCAD

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SHEET NAME: PV MODULES DATA SHEET

PROJECT ID: EP01464
ENGINEER OF RECORD: ENG. RAFAEL A. GONZALEZ SOTO, PE
DATE: 09/19/24
SHEET TITLE: D-1

Certificate Of Completion

Envelope Id: 03CC7289-EBEF-44D7-A67E-E874ADE709E4
Status: Completed
Subject: SIGNATURE: Net-Metering Agreement - Adam Nye (ELE/250711)
Source Envelope:
Document Pages: 27
Signatures: 5
Certificate Pages: 5
Initials: 0
AutoNav: Enabled
EnvelopeId Stamping: Enabled
Time Zone: (UTC-05:00) Eastern Time (US & Canada)

Envelope Originator:
April Adolf
110 SE Watula Avenue
City Hall, Third Floor
Ocala, FL 34471
aadolf@ocalafl.gov
IP Address: 216.255.240.104

Record Tracking

Status: Original
5/20/2025 4:26:40 PM
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aadolf@ocalafl.gov
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Security Appliance Status: Connected
Pool: StateLocal

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Signer Events	Signature	Timestamp
William E. Sexton wsexton@ocalafl.org City Attorney City of Ocala Security Level: Email, Account Authentication (None)	DocuSigned by: William E. Sexton B07DCFC4E86E429... Signature Adoption: Pre-selected Style Using IP Address: 216.255.240.104	Sent: 5/20/2025 4:38:59 PM Viewed: 6/5/2025 2:54:04 PM Signed: 6/5/2025 2:54:49 PM
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... Signature Adoption: Pre-selected Style Using IP Address: 216.255.240.104	Sent: 6/5/2025 2:54:50 PM Viewed: 6/11/2025 7:14:32 AM Signed: 6/11/2025 7:15:04 AM
Electronic Record and Signature Disclosure: Accepted: 6/11/2025 7:14:32 AM ID: 3f78c485-80f8-4c1d-af60-f640e098538a		
Chris Gowder chris.gowder@fmpa.com Chief Sys Ops & Tech Officer Security Level: Email, Account Authentication (None)	DocuSigned by: 087F58EBB34B474... Signature Adoption: Uploaded Signature Image Using IP Address: 38.77.131.2	Sent: 6/11/2025 7:15:05 AM Viewed: 6/11/2025 8:22:58 AM Signed: 6/11/2025 8:23:08 AM
Electronic Record and Signature Disclosure: Accepted: 6/11/2025 8:22:58 AM ID: c2fb5603-d02b-426a-8422-987ed28c8838		

In Person Signer Events	Signature	Timestamp

Editor Delivery Events	Status	Timestamp

Agent Delivery Events	Status	Timestamp

Intermediary Delivery Events	Status	Timestamp

Certified Delivery Events	Status	Timestamp

Carbon Copy Events	Status	Timestamp

Witness Events	Signature	Timestamp

Notary Events	Signature	Timestamp

Envelope Summary Events	Status	Timestamps
Envelope Sent	Hashed/Encrypted	5/20/2025 4:38:59 PM
Certified Delivered	Security Checked	6/11/2025 8:22:58 AM
Signing Complete	Security Checked	6/11/2025 8:23:08 AM
Completed	Security Checked	6/11/2025 8:23:08 AM

Payment Events	Status	Timestamps

Electronic Record and Signature Disclosure

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You may contact us to let us know of your changes as to how we may contact you electronically, to request paper copies of certain information from us, and to withdraw your prior consent to receive notices and disclosures electronically as follows:
To contact us by email send messages to: contracts@ocalafl.org

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

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

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

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

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ii. send us an email to 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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