

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: ELIO GUARDAMINO

Mailing Address: 1434 NE 32ND TER

City: Ocala State: FL Zip Code: 34470

Phone Number: (352) 657-9721 Alternate Phone Number: _____

Email Address: elio_cangrejo50@hotmail.com Fax Number: _____

Ocala Electric Utility Customer Account Number: 510256-167236

2. RGS Facility Information

Facility Location: 1434 NE 32ND TER Ocala FL 34470

Ocala Electric Utility Customer Account Number: 510256-167236

RGS Manufacturer: HANWHA Q CELLS Q.PEAK DUO BLK ML-G10+ 400

Manufacturer's Address: _____

Reference or Model Number: Q.PEAK DUO BLK ML-G10+ 400

Serial Number: _____

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

Effective: October 1, 2019

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3. Facility Rating Information

Gross Power Rating: 8.160kWac ("Gross power rating" means the total manufacturer's AC nameplate generating capacity of an on-site customer-owned renewable generation system that will be interconnected to and operate in parallel with Ocala Electric Utility's distribution facilities. For inverter-based systems, the AC nameplate generating capacity shall be calculated by multiplying the total installed DC nameplate generating capacity by 0.85 in order to account for losses during the conversion from DC to AC.)

Fuel or Energy Source: SOLAR

Anticipated In- Service Date: _____

4. 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: ELIO GUARDAMINO Date: 5/20/2024
(Print Name)


(Signature)

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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 20 day of MAY, 20 24, 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 1434 NE 32ND TER OCALA FL 34470, 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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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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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

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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

Florida Municipal Power Agency

By: Signed by:
Janice Mitchell
551984388AAE1...
Title: CFO
Date: 9/4/2024

By: DocuSigned by:
C. J. ...
087F58EBB34B474...
Title: VP of IT/OT and System Ops
Date: 9/4/2024

Customer

By: ELIO GUARDAMINO Date: 5/20/24
(Print Name)
Elio Guardamino
(Signature)

Customer's City of Ocala Electric Utility Account Number: 510256-167236

Approved as to form and legality:

DocuSigned by:
William E. Sexton
007071C4EB88428
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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Electric Utility Director

Effective: October 1, 2019

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

This **Agreement** is made and entered into this 20 day of MAY, 2024, by and between ELIO GUARDAMINO, (hereinafter called "**Customer**"), located at 1434 NE 32ND TER 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: 1434 NE 32ND TER OCALA FL 34470.

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:

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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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Electric Utility Director

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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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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' 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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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

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
55108R43858A4E1

By: ELIO GUARDAMINO
(Print Name)

Title: CFO

Elio Guardamino
(Signature)

Date: 9/4/2024

Date: 5/20/24

City of Ocala Electric Utility Account Number:

510256-167236

Approved as to form and legality:

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

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

Effective: October 1, 2019



CONTRACT# ELE/241006

CITIZENS PROPERTY INSURANCE CORPORATION
 301 W BAY STREET, SUITE 1300
 JACKSONVILLE FL 32202-5142

Homeowners HO-3 Special Form Application Citizens Property Insurance Corporation		Initial Submission Date: 12/27/2023	
POLICY NUMBER: 11434238		Effective Date: 01/26/2024 Expiration Date: 01/26/2025 Effective at 12:01 a.m. Eastern Time at the Location of the Residence Premises	
<p align="center">APPLICANT INFORMATION</p> First Named Insured: ELIO GUARDAMINO Policy Mailing Address: 1434 NE 32ND TER OCALA, FL 34470-4896 Country: US Primary Email Address: loco_x_ti10@hotmail.com Reason For No Email: Secondary Email Address: Social Security/FEIN Number: Intentionally Left Blank Date Of Birth: Intentionally Left Blank Occupation: other Contact Telephone: 352-216-8394 Mobile Phone: 352-216-8394 Reason For No Mobile: Address Type: Mailing		<p align="center">AGENT INFORMATION</p> Organization Name: JIJ INSURANCE SERVICES Citizens Agency ID#: 30708 Agent Name: LIANNE GARCIA Fl. Agent Lic. #: W334288_1 Mailing Address: 5195 NW 77TH AVE MIAMI, FL 33166 Email Address: lgarcia@univistainsurance.com Primary Telephone: 305-508-9575 Work Telephone: 305-508-9575 Primary Fax Number: 305-506-9336	
<p align="center">LOCATION OF RESIDENCE PREMISES</p> Property Address: 1434 NE 32ND TER OCALA, FL 34470-4896 FL County: MARION		<p align="center">DEDUCTIBLES</p> Hurricane Deductible: \$4,728 (2%) All Other Perils Deductible: \$2,500 Sinkhole Deductible: N/A <p align="center">WIND</p> Windstorm coverage is: Included	

ADDITIONAL NAMED INSURED(S)			
Name	Address	Occupation	Social Security/FEIN Number/D.O.B
OLINDA GUARDAMINO	1434 NE 32ND TER OCALA, FL 34470-4896		Intentionally Left Blank

ADDITIONAL INTEREST(S)			
#	Interest Type	Name and Address	Loan Number
1	1st Mortgagee	WELLS FARGO BANK NA ISAOA PO BOX 100515 FLORENCE, SC 29502-0515	0378715866

CONTRACT# ELE/241006

BASIC COVERAGES		OTHER COVERAGES	
Basic Coverages	Coverage Limits	Personal Property Replacement Cost (CIT 04 90)	No
A. Dwelling:	\$236,400	Additional Insured Residence Premises (CIT HO 04 41)	No
B. Other Structures:	\$4,730	Additional Interest Residence Premises (HO 04 10)	No
C. Personal Property:	\$59,100	Ordinance or law:	
D. Loss of Use:	\$23,640	25% Limit:	Yes
E. Personal Liability:	\$100,000	50% Increased Limit (CIT 04 77):	No
F. Medical Payments:	\$2,000	Sinkhole Loss Coverage (CIT 23 94)	No
RATING INFORMATION			
Year Built:	2007	Occupancy:	Owner Occupied
Is the dwelling under construction or renovation?	No	Use:	Primary
Will the dwelling be occupied throughout the entire renovation period?		Identify All Months Unoccupied:	None
What is the estimated completion date?		Property Protected by:	
Date Purchased or Leased:	07/11/2011	Locked Security Gate:	No
For Dwelling over 30 years, indicate:		Security Guard(s):	No
Year 4 point inspection completed*:	No Inspection	Terrain:	B
Roof Material:	Shingles - Asphalt/Fiberglass/Composite	FBC Wind Speed:	Unknown
Roof Remaining Useful Life (Years):		FBC Wind Design:	Unknown
Improvements:		Protection Class:	2
Year of Last Update - Roofing*:	No Update	Distance from Fire Station (mi.):	2
*(Update and inspection documentation must be attached)		Distance from Hydrant (ft.):	500
Primary Heat Source:		Is risk within the City Limits:	No
Is the Primary Heat Source portable?	No	City, Town or Fire District:	OCALA
Does the Primary Heat Source have an open flame?	No	Municipal Code	
Is the heat source a central gas fireplace or wood burning stove that is permanently installed by the factory or a qualified professional?	No	Fire:	695
Building Code Effectiveness Grading Schedule:		Police:	695
Grade Code:	02	Number of Families:	1
Construction Type:	Masonry	Number of Roomers/Boarders:	0
Number of Units in Fire Division:	1	Total Living Area(Sq. Ft.):	1391
Any Unacceptable Plumbing:	None	Number of Stories:	1
Any Hazardous Electrical Wiring:	None of the Above	Number of Units in Building:	1
Has the Aluminum Branch wiring been remediated:		Floor Unit Located On:	1
Electrical Service-Number of Amps:	100 or more Amps	Estimated Replacement Cost:	\$236,400
Residence Type:	Dwelling	Alternate Reconstruction Cost	
Roof Cover:		Valuation Type:	None
Roof Shape:	Gable	Market Value (Excluding Land):	\$300,000
Opening Protection:	Unknown	Purchase Price:	\$200,000
Roof Deck Attachment:	Unknown		
Roof-Wall Connection:	Unknown		
Secondary Water Resistance:	Unknown		

REVIEWED
City of Orlando Building Department
ELBZ-0029
2/28/24
TEL: +1 407-308-0039
engineering@windmarhome.com



ELIO V GUARDAMINO
OLINDA GUARDAMINO
1434 NE 32 ND TERRACE
OCALA, FL 34470

PROJECT:

WHENEVER ANY OTHER DRAWING CONFLICTS A DECISION AS TO WHICH DRAWING TO FOLLOW, THE DECISIONS ARE THE PROPERTY OF WINDMAR SOLAR. IT IS THE RESPONSIBILITY OF THE USER TO VERIFY THAT THE PV ELECTRICAL SYSTEM IS DESIGNED AND APPROVED USING THE MOST RECENT VERSION OF THE FLORIDA BUILDING CODE.

PER FL STATUTE 777.700 (REVISED 7/10/2017), I HEREBY CERTIFY THAT THE PV ELECTRICAL SYSTEM IS DESIGNED AND APPROVED USING THE MOST RECENT VERSION OF THE FLORIDA BUILDING CODE.

Digitally signed by Miguel Alvarez
Date: 2024.01.08 14:39:29 -0400

ENGINEER'S SEAL
PROJECT NO: RDL4846
DATE: 1.4.2024
DRAWING BY: MA
CHECKED BY: M. ALVAREZ
SCALE: N.T.S.
SHEET TITLE: ELECTRICAL DIAGRAM & CALCULATION
SHEET NO: E-1

- ITEM DESCRIPTION:**
- 1 PV MODULES, TYPE : HANWHA Q-CELLS Q-PEAK DUO BLK ML-G10+ 400
 - 2 MICROINVERTER: ENPHASE IQ8PLUS-72-2-US (EQUIPPED WITH RAPID SHUTDOWN).
 - 3 ENPHASE Q CABLE MALE CONNECTOR (Q-12-RAW-300) PER BRANCH AND #16 BARE COPPER FOR GROUND IN 1" CONDUIT.
 - 4 1 ENPHASE RAW Q-CABLE (Q-12-RAW-300) PER BRANCH AND #16 BARE COPPER FOR GROUND IN 1" CONDUIT.
 - 5 JUNCTION BOX 6" x 6" SUITABLE FOR WET LOCATIONS (UL ENVIRONMENTAL RATING TYPE 4x).
 - 6 #10 THIN PER BRANCH AND #16 THIN FOR GROUND IN 1" CONDUIT TO CARRY BRANCH CIRCUIT CONDUCTORS TO LOAD CENTER. NOTE: INSTALL OUTDOORS PVC EXPANSION FITTING WHERE NEEDED.
 - 7 ENPHASE IQ COMBINER 4C WITH IQ ENVY METER (X2-IQ-AM1-240-4C) 125A BUS RATING 120/240 VAC WITH 3 BREAKERS 20A/2-P & 1 BREAKER 15A/2-P FOR IQ ENVY SUPPLY INSTALLED BY MANUFACTURER.
 - 8 3#10 THIN CU AND #16 THIN CU FOR GROUND IN 1" CONDUIT.
 - 9 60A FUSED DISCONNECT FOR AC PV DISCONNECT/RAPID SHUTDOWN DISCONNECT SERVICE ENTRANCE RATED WITH 40A FUSES: 24 x 1.45A x 1.25 = 43.50A = 40A (OCPD) EXISTING UTILITY METER.
 - 10 EXISTING UTILITY METER.
 - 11 EXISTING RESIDENCE 150A MAIN BREAKER.
 - 12 LINE SIDE: INTERCONNECTION TO THE SERVICE-ENTRANCE CONDUCTORS AHEAD OF THE MAIN BREAKER WITH PARALLEL TAP CONNECTORS. NOTE: PARALLEL TAP CONNECTORS PROMOTE MORE FLEXIBILITY BY ALLOWING CONNECTIONS IN CRAMPED, OVERFILLED ENCLOSURES. THE AREA OF THIS CONNECTOR IS INSTALLED AT ANY CROSS SECTION DOESN'T EXCEED 75% OF THE CROSS-SECTIONAL AREA OF THE SPACE.
 - 13 EXISTING MAIN SERVICE PANEL WITH 225A BUSBAR RATING.
 - 14 EXISTING GROUNDING ELECTRODE CONDUCTOR.
 - 15 EXISTING SERVICE-ENTRANCE CONDUCTORS 3#2/0 THIN AL.
 - 16 THE NEUTRAL CONDUCTOR IS REQUIRED TO BE GROUNDED & BONDED IN THE 60A PV DISCONNECT ENCLOSURE AS PER NEC 250.24, 250.26, 250.28, 250.30.
 - 17 CONNECTION FROM NEW GROUNDING ELECTRODE CONDUCTOR (GEC) TO EXISTING RESIDENCE GEC #6 BARE SOLID CU WIRE
 - 18 EXISTING INTERIOR DISTRIBUTION SUBPANEL WITH 225A BUSBAR RATING.
 - 19 EXISTING FEEDER CONDUCTORS 3#2/0 THIN AL AND #12 AL GRD.
 - 20 CONSUMPTION CURRENT TRANSFORMER.

NOTE: IQ ENVY METER ENABLES WEB-BASED MONITORING AND CONTROL. AND PROVIDES PRODUCTION METERING AND OPTIONAL CONSUMPTION MONITORING. THIS METER IS INCLUDED IN THE LIST OF ELIGIBLE METERS FROM THE CALIFORNIA ENERGY COMMISSION.

3#10 THIN CU AND #16 THIN CU FOR GROUND IN 1" CONDUIT.

60A FUSED DISCONNECT FOR AC PV DISCONNECT/RAPID SHUTDOWN DISCONNECT SERVICE ENTRANCE RATED WITH 40A FUSES: 24 x 1.45A x 1.25 = 43.50A = 40A (OCPD) EXISTING UTILITY METER.

EXISTING RESIDENCE 150A MAIN BREAKER.

LINE SIDE: INTERCONNECTION TO THE SERVICE-ENTRANCE CONDUCTORS AHEAD OF THE MAIN BREAKER WITH PARALLEL TAP CONNECTORS. NOTE: PARALLEL TAP CONNECTORS PROMOTE MORE FLEXIBILITY BY ALLOWING CONNECTIONS IN CRAMPED, OVERFILLED ENCLOSURES. THE AREA OF THIS CONNECTOR IS INSTALLED AT ANY CROSS SECTION DOESN'T EXCEED 75% OF THE CROSS-SECTIONAL AREA OF THE SPACE.

EXISTING MAIN SERVICE PANEL WITH 225A BUSBAR RATING.

EXISTING GROUNDING ELECTRODE CONDUCTOR.

EXISTING SERVICE-ENTRANCE CONDUCTORS 3#2/0 THIN AL.

THE NEUTRAL CONDUCTOR IS REQUIRED TO BE GROUNDED & BONDED IN THE 60A PV DISCONNECT ENCLOSURE AS PER NEC 250.24, 250.26, 250.28, 250.30.

CONNECTION FROM NEW GROUNDING ELECTRODE CONDUCTOR (GEC) TO EXISTING RESIDENCE GEC #6 BARE SOLID CU WIRE

EXISTING INTERIOR DISTRIBUTION SUBPANEL WITH 225A BUSBAR RATING.

EXISTING FEEDER CONDUCTORS 3#2/0 THIN AL AND #12 AL GRD.

CONSUMPTION CURRENT TRANSFORMER.

NOTES:

- ALL CONDUITS AND RACEWAYS APPROVED PER METHOD NEC 2017 AND NEC 2020.
- IN THE EVENT OF CONFLICTING REGULATIONS THE MOST RESTRICTIVE SHALL PREVAIL.
- ALL EQUIPMENT IS SUITABLE FOR OUTDOORS INSTALLATION AND RATED FOR 90°F.
- THE SIZE OF ALL CONDUITS BASED ON THEIR AMPACITY FOR AN AMBIENT TEMPERATURE OF 90°F (90°C) WAS TAKEN FROM NEC TABLE B.310.15(B)(2)(1).

SYSTEM DATA

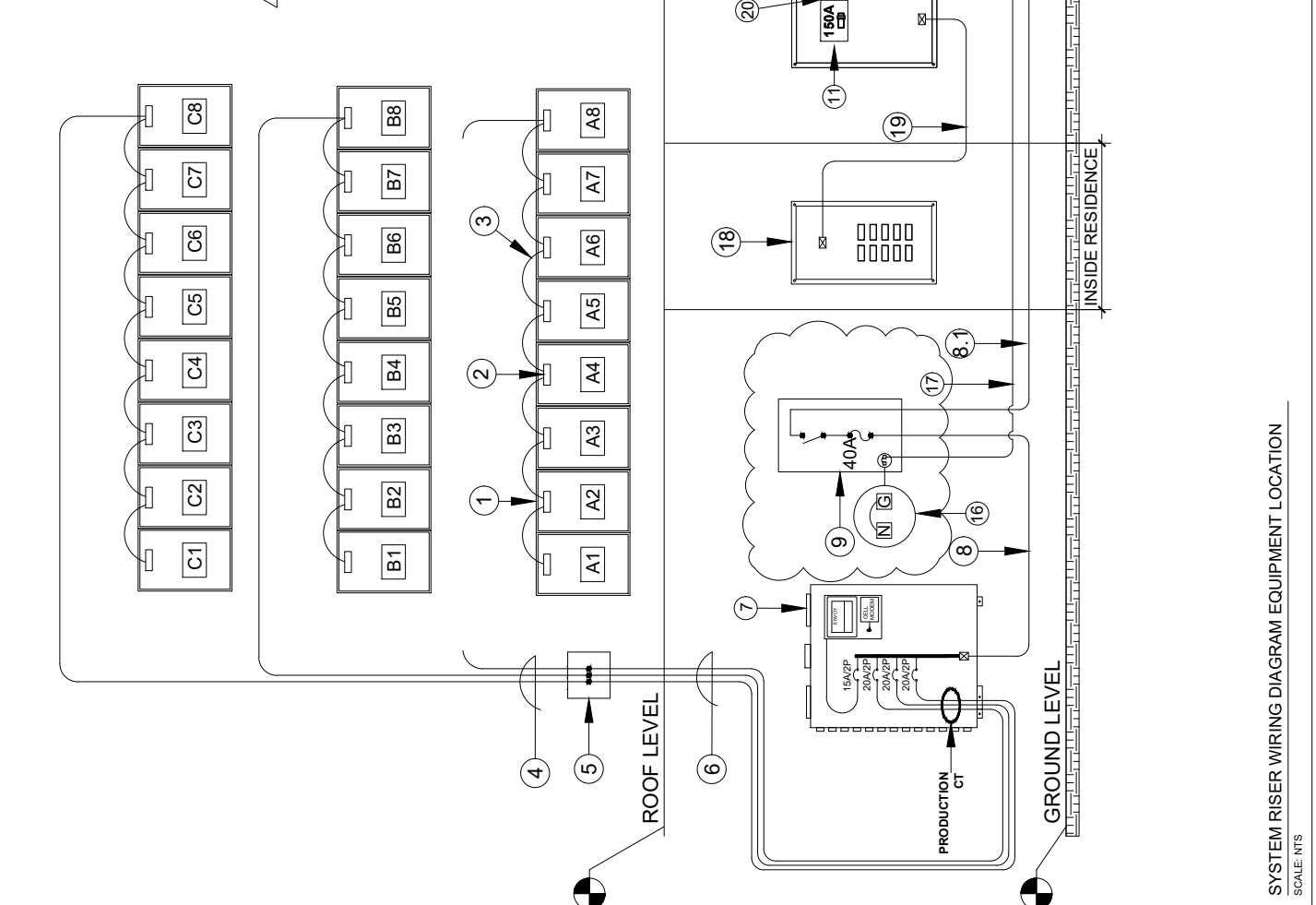
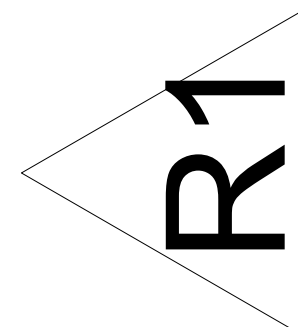
TOTAL W: 9,600 WATTS DC / 6,960 WATTS AC
MSP BUSBAR RATING: 225A
TOTAL PV MODULES: 24 PHOTOVOLTAIC MODULES
PV MODEL: HANWHA Q-CELLS Q-PEAK DUO BLK ML-G10+ 400
INVERTER: ENPHASE IQ8PLUS-72-2-US MICROINVERTER
BATTERY: NONE
RACK SYSTEM: UNIRAC

BONDING MIDCLAMP ASSEMBLY

1. STAINLESS STEEL MIDCLAMP POINTS, 2 PER MODULE, PIERCE MODULE FRAME ANODIZATION TO BOND MODULE TO MODULE THROUGH CLAMP.
2. SERRATED FLANGE NUT BONDS STAINLESS STEEL CLAMP TO STAINLESS STEEL T-BOLT.
3. SERRATED T-BOLT HEAD PENETRATES RAIL ANODIZATION TO BOND T-BOLT, NUT, CLAMP, AND MODULES TO GROUNDED SM RAIL.

CROSS SECTIONAL AREA CALCULATION:
CROSS SECTIONAL AREA OF 1/2" THIN = 0.2028 SQ. IN.;
CROSS SECTIONAL AREA OF 1" TUBE Ø 78 SQ. IN. FILL % = (0.2028 / 0.79) x 100 = 25.7% < 40%

FILL CALCULATIONS NOTE:
ALL FILL CALCULATIONS ON THIS DESIGN HAVE BEEN DONE IN COMPLIANCE WITH NEC 312.8.



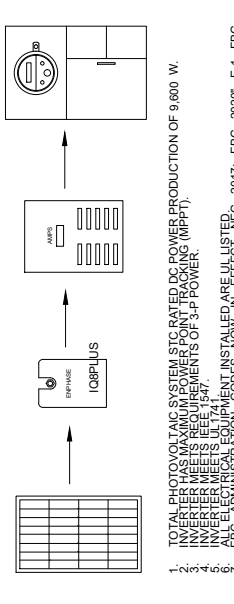
NOTE: ENGINEER CERTIFIES THAT THIS PLAN COMPLIES WITH 107.3.5 FBC.

IMPORTANT NOTE: NEC 705.12
WHERE TWO SOURCES, ONE A UTILITY AND THE OTHER AN INVERTER, ARE LOCATED AT OPPOSITE ENDS OF A BUSBAR THAT CONTAINS LOADS, THE SUM OF 125% OF THE INVERTER(S) OUTPUT CIRCUIT CURRENT AND THE RATING OF THE OVERCURRENT DEVICE PROTECTING THE BUSBAR SHALL NOT EXCEED 120% THE AMPACITY OF THE BUSBAR. THE BUSBAR SHALL BE SIZED FOR THE LOADS CONNECTED IN ACCORDANCE WITH ARTICLE 220. A PERMANENT WARNING LABEL SHALL BE APPLIED TO THE DISTRIBUTION EQUIPMENT ADJACENT TO THE BACK-FED BREAKER FROM THE INVERTER THAT DISPLAYS THE FOLLOWING OR EQUIVALENT WORDING:
WARNING:
INVERTER OUTPUT CONNECTION; DO NOT RELOCATE THIS OVERCURRENT DEVICE
THE WARNING SIGN(S) OR LABEL(S) SHALL COMPLY WITH 110.2(B).
EXCEPTION: EQUIPMENT WITH MULTIPLE AMPACITY BUSBARS OR CENTER FED PANELBOARDS ARE NOT ADDRESSED BY THIS PROVISION.
NEC : (BUS RATING) X 1.2 - (MAIN BREAKER) = 120% RULE

THE NEC GIVES YOU THE CHOICE OF FOUR METHODS FOR ENSURING ELECTRICAL CONTINUITY AT SERVICE EQUIPMENT, SERVICE RACEWAYS, AND SERVICE CONDUCTOR ENCLOSURES (250.92(B)).
1. BONDING JUMPERS, BOND METAL PARTS TO THE SERVICE NEUTRAL CONDUCTOR. THIS REQUIRES A MAIN BONDING JUMPER (250.24(B) AND 250.28). BECAUSE THE SERVICE NEUTRAL CONDUCTOR PROVIDES THE EFFECTIVE GROUND-FULT CURRENT PATH TO THE POWER SUPPLY (250.24(C)), YOU DON'T HAVE TO INSTALL AN EQUIPMENT GROUNDING CONDUCTOR WITHIN PVC CONDUIT CONTAINING SERVICE-ENTRANCE CONDUCTORS (250.142(A)(1) AND 352.60 EX 2).
2. THREADEDLESS FITTINGS. TERMINATE METAL RACEWAYS TO METAL ENCLOSURES BY THREADED HUBS ON ENCLOSURES (IF MADE TIGHT).
3. THREADEDLESS FITTINGS. TERMINATE METAL RACEWAYS TO METAL ENCLOSURES BY THREADEDLESS FITTINGS (IF MADE TIGHT).
4. OTHER LISTED DEVICES. THESE INCLUDE BONDING-TYPE LOCKNUTS, BUSHINGS, WEDGES, OR BUSHINGS WITH BONDING JUMPERS.

MODULE MAKE	MANUFACTURER RATINGS
MODULE MAKE	HANWHA Q-CELLS
MODULE MODEL	Q PEAK-400
MAX POWER	400 W
MAX CIRCUIT VOLTAGE	45.30 V
MAX POWER POINT VOLTAGE	37.13 V
SHORT CIRCUIT CURRENT	11.14 A
MAX POWER POINT CURRENT	10.77 A

ITEM	MANUFACTURER	MODEL	LISTING / COMPLIANCE
PV/MODULE	Q-CELL	400W	UL
INVERTER	ENPHASE	IQ8PLUS	UL
ALL DISCONNECTS	ENPHASE	DC & AC	UL
ALL OVERCURRENT PROTECTION	ENPHASE	DC & AC	UL
FSEC CERTIFICATION NUMBER	ENPHASE	400W IQ8PLUS	RV-16-0106A



TOTAL PHOTOVOLTAIC SYSTEM RATED DC POWER PRODUCTION OF 9,600 W.
1. INVERTER HAS MAXIMUM POWER POINT TRACKING (MPPT).
2. INVERTER MEETS REQUIREMENTS OF 3-P POWER.
3. INVERTER MEETS UL 1741.
4. INVERTER MEETS UL 1741.
5. INVERTER MEETS UL 1741.
6. INVERTER MEETS UL 1741.
7. ADMINISTRATION FROM THE MANUFACTURER'S WEBSITE FOR THE EFFECTIVE DATE OF THE EQUIPMENT TO BE INSTALLED ARE UL LISTED.

SYSTEM AUTOMATIC OPERATION

- GRID POWER IS PRESENT. WILL AUTOVOLTAGE SYSTEM FEEDS THE LOAD AT DAY TIME.
- THE GRID. TANG SYSTEM WILL AUTOMATICALLY RESUME FEEDING POWER TO THE GRID. WHEN THE PROPER GRID VOLTAGE AND FREQUENCY IS RESTORED (IEEE STANDARDS) AND THERE IS ENOUGH SUNLIGHT.

SCHEDULES
SCALE: NTS

NOTES: 1. THE SERVICE ENTRANCE CONDUCTOR SIZE SHALL BE THE SAME AS THE SERVICE-ENTRANCE CONDUCTOR SIZE. 2. THE SERVICE-ENTRANCE CONDUCTOR SHALL BE THE SAME AS THE SERVICE-ENTRANCE CONDUCTOR SIZE. 3. THE SERVICE-ENTRANCE CONDUCTOR SHALL BE THE SAME AS THE SERVICE-ENTRANCE CONDUCTOR SIZE. 4. THE SERVICE-ENTRANCE CONDUCTOR SHALL BE THE SAME AS THE SERVICE-ENTRANCE CONDUCTOR SIZE. 5. THE SERVICE-ENTRANCE CONDUCTOR SHALL BE THE SAME AS THE SERVICE-ENTRANCE CONDUCTOR SIZE. 6. THE SERVICE-ENTRANCE CONDUCTOR SHALL BE THE SAME AS THE SERVICE-ENTRANCE CONDUCTOR SIZE. 7. THE SERVICE-ENTRANCE CONDUCTOR SHALL BE THE SAME AS THE SERVICE-ENTRANCE CONDUCTOR SIZE. 8. THE SERVICE-ENTRANCE CONDUCTOR SHALL BE THE SAME AS THE SERVICE-ENTRANCE CONDUCTOR SIZE. 9. THE SERVICE-ENTRANCE CONDUCTOR SHALL BE THE SAME AS THE SERVICE-ENTRANCE CONDUCTOR SIZE. 10. THE SERVICE-ENTRANCE CONDUCTOR SHALL BE THE SAME AS THE SERVICE-ENTRANCE CONDUCTOR SIZE. 11. THE SERVICE-ENTRANCE CONDUCTOR SHALL BE THE SAME AS THE SERVICE-ENTRANCE CONDUCTOR SIZE. 12. THE SERVICE-ENTRANCE CONDUCTOR SHALL BE THE SAME AS THE SERVICE-ENTRANCE CONDUCTOR SIZE. 13. THE SERVICE-ENTRANCE CONDUCTOR SHALL BE THE SAME AS THE SERVICE-ENTRANCE CONDUCTOR SIZE. 14. THE SERVICE-ENTRANCE CONDUCTOR SHALL BE THE SAME AS THE SERVICE-ENTRANCE CONDUCTOR SIZE. 15. THE SERVICE-ENTRANCE CONDUCTOR SHALL BE THE SAME AS THE SERVICE-ENTRANCE CONDUCTOR SIZE. 16. THE SERVICE-ENTRANCE CONDUCTOR SHALL BE THE SAME AS THE SERVICE-ENTRANCE CONDUCTOR SIZE. 17. THE SERVICE-ENTRANCE CONDUCTOR SHALL BE THE SAME AS THE SERVICE-ENTRANCE CONDUCTOR SIZE. 18. THE SERVICE-ENTRANCE CONDUCTOR SHALL BE THE SAME AS THE SERVICE-ENTRANCE CONDUCTOR SIZE. 19. THE SERVICE-ENTRANCE CONDUCTOR SHALL BE THE SAME AS THE SERVICE-ENTRANCE CONDUCTOR SIZE. 20. THE SERVICE-ENTRANCE CONDUCTOR SHALL BE THE SAME AS THE SERVICE-ENTRANCE CONDUCTOR SIZE.

Voltage Drop Calculation

Formula:
 $VD = \frac{(2'L * Imax * k)}{D}$

Results:
VD = 1.24 V
VD% = 1.04 %

Temperature Correction

Formula:
 $Imax = \frac{I}{Temperature\ Rating}$

Results:
TC = 45.31A

Conductors

Results:
VD = 1.24 V
VD% = 1.04 %

Conductors

Results:
VD = 1.24 V
VD% = 1.04 %



TEL: +1 407-308-0089
engineering@windnathome.com



ELIO V GUARDAMINO
OLINDA GUARDAMINO
1434 NE 32 ND TERRACE
OCALA, FL 34470

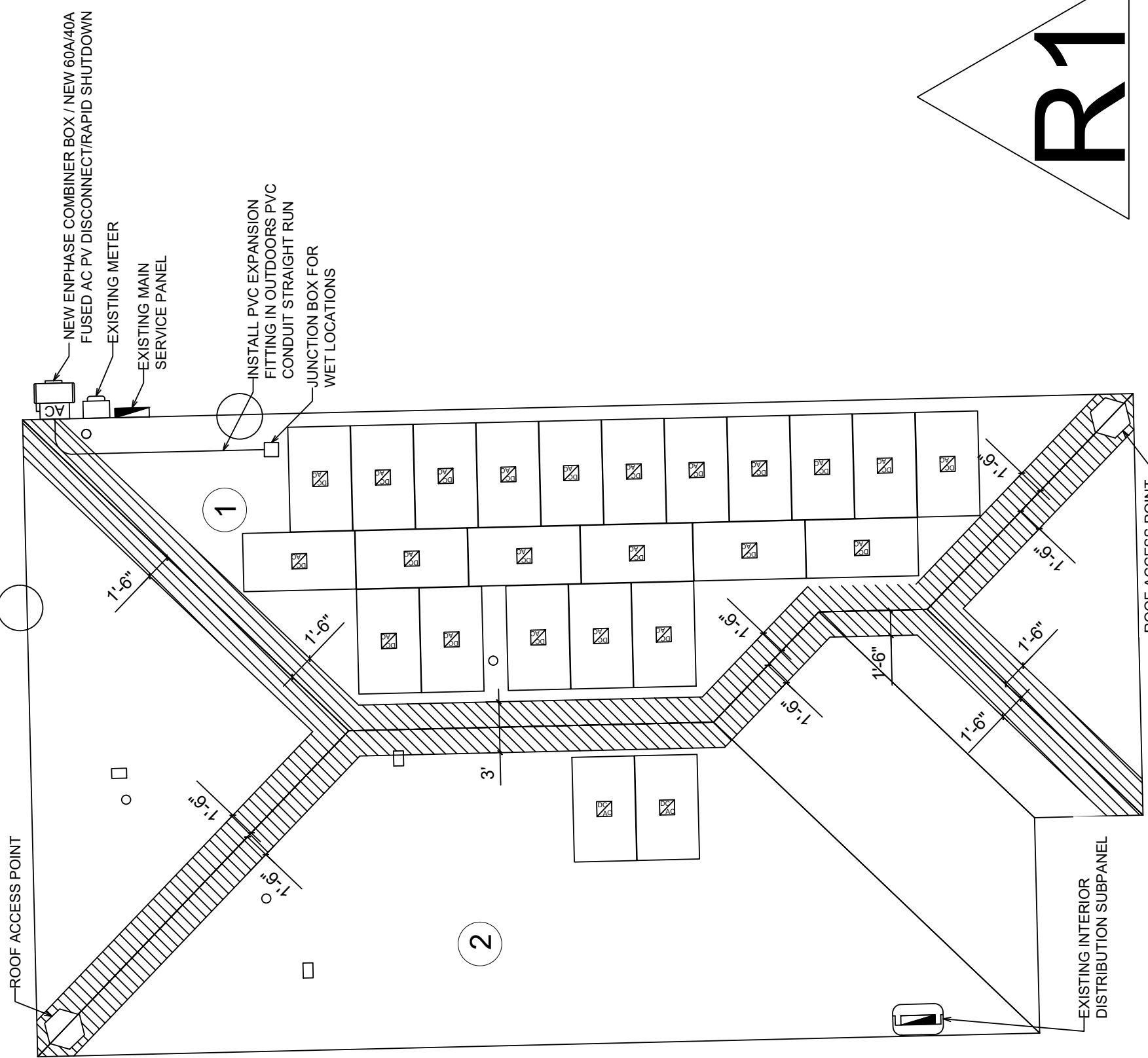
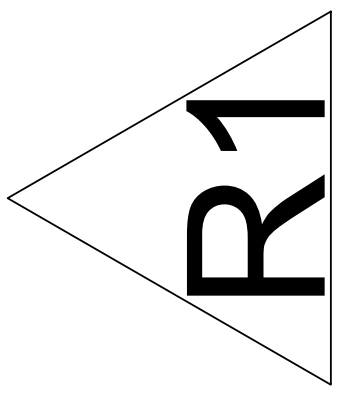
PROJECT:

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PROFESSIONAL ENGINEER
MIGUEL ALVAREZ
2024.01.08
14-4033
-04100

PROFESSIONAL ENGINEER
MIGUEL ALVAREZ
2024.01.08
14-4033
-04100

PROJECT NO.	RDL4846
DATE:	1.4.2024
DRAWN BY:	MA
CHECKED BY:	M. ALVAREZ
SCALE:	N.T.S.
SHEET TITLE:	SYSTEM LAYOUT
SHEET NO.	S-1



SYSTEM OVERVIEW
SOLAR PANELS: 24 x HANWIHA 400W (PV - ARRAY)
INVERTERS: 24 x IQ 8PLUS - 240VAC (INVERTER EFFICIENCY: 95%)
MOUNTING TYPE: UNIRAC EVALUATION OF DESIGN
LOCATION: FLORIDA, USA
RECORD LOW TEMPERATURE: 35.00 °F
AVERAGE HIGH TEMPERATURE: 78.00 °F
RECORD HIGH TEMPERATURE: 98.00 °F

TECHNICAL DATA
PV PEAK POWER: 6,960 kWp
NUMBER OF PV MODULES: 24
NUMBER OF INVERTERS: 24
MAX. DC POWER: 400W
MAX. AC POWER: 290W
GRID VOLTAGE: 240V
NOMINAL POWER RATIO: 95%

PV ARRAY
NUMBER OF PV MODULES: 24
NUMBER OF INVERTERS: 24
PEAK POWER OUTPUT: 400Wp
MPP PV VOLTAGE: 37.13V
OC PV VOLTAGE: 45.30V
MIN. DC VOLTAGE (240V GRID): 22.0V
MAX. PV VOLTAGE: 40V
MAX. DC VOLTAGE (INVERTER): 48V
MAX. CURRENT OF PV: 11.14A
MAX. DC CURRENT: 10.77A

PV & INVERTER COMPATIBILITY
PV ARRAY & TYPE OF INVERTER ARE COMPATIBLE
THE NOMINAL POWER RATIO (MAX. DC POWER OF THE INVERTER DIVIDED BY THE PEAK POWER) IS WITHIN THE RECOMMENDED RANGE (80% - 120%).

- LEGEND**
- FIRE CODE OFFSET (NFPA 1, 2015, Ch. 11)
 - EXISTING UTILITY METER
 - NEW COMBINER BOX
 - NEW 60A/40A FUSED AC PV DISCONNECT/ RAPID SHUTDOWN DISCONNECT
 - EXISTING MAIN SERVICE PANEL
 - JUNCTION BOX SUITABLE FOR WET LOCATIONS
 - ROOF VENT LOCATIONS
 - RIDGE VENT LOCATIONS
 - ROOF ACCESS POINT

ROOF INFORMATION
ROOF TYPE: ASPHALT SHINGLE
TOTAL ROOF AREA: 2214.67 SQFT
TOTAL PHOTOVOLTAIC AREA: 506.88 SQFT
ROOF AGE: <5 YEARS
PRESSURE ZONE: 1 & 2
MEAN ROOF SLOPE: 4.6/12
TOTAL MODULES: 24
TOTAL POINT OF CONNECTIONS PER MODULE: 4
RACKING SYSTEM: UNIRAC
ALUMINUM RAILS PER MODULE: 2
TILT: 1:21°
AZIMUTH: 1:89°(E)
AZIMUTH: 2:269°(W)
TILT: 2:21°

PHOTOVOLTAIC PANELS LAYOUT
SCALE: NTS

Data Sheet
Enphase Microinverters
 Region: AMERICAS

Enphase IQ 7A Microinverter

The high-powered smart grid-ready **Enphase IQ 7A Micro™** dramatically simplifies the installation process while achieving the highest system efficiency for systems with 60-cell and 72-cell modules.

Part of the Enphase IQ System, the IQ 7A Micro integrates with the Enphase IQ Envoy™, Enphase IQ Battery™, and the Enphase Enlighten™ monitoring and analysis software.

The IQ Series Microinverters extend the reliability standards set forth by previous generations and undergo over a million hours of power-on testing, enabling Enphase to provide an industry-leading warranty of up to 25 years.



High Power

- Peak output power 366 VA @ 240 VAC and 295 VA @ 208 VAC

Easy to Install

- Lightweight and simple
- Faster installation with improved, lighter two-wire cabling
- Built-in rapid shutdown compliant (NEC 2014, 2017 & 2020)

Efficient and Reliable

- Optimized for high powered 60-cell and 72-cell modules
- Highest CEC efficiency of 97%
- More than a million hours of testing
- Class II double-insulated enclosure
- UL listed

Smart Grid Ready

- Complies with advanced grid support, voltage and frequency ride-through requirements
- Envoy and Internet connection required
- Configurable for varying grid profiles
- Meets CA Rule 21 (UL 1741-SA)



To learn more about Enphase offerings, visit enphase.com



Enphase IQ 7A Microinverter

INPUT (DC)		IQ7A-72-2-US	
Commonly used module pairings ¹	295 W–460 W +		
Module compatibility	60-cell, 66-cell and 72-cell PV modules		
Maximum input DC voltage	58 V		
Power point tracking voltage range ²	18 V–58 V		
Min/Max start voltage	33 V / 58 V		
Max DC short circuit current (module I _{sc}) ³	15 A		
Overtoltage class DC port	II		
DC port backfeed current	0 A		
PV array configuration	1 x 1 ungrounded array; No additional DC side protection required; AC side protection requires max 20A per branch circuit		
OUTPUT (AC)		@ 240 VAC	@ 208 VAC
Peak output power	366 VA	295 VA	
Maximum continuous output power	349 VA	290 VA	
Nominal (L-L) voltage/range ⁴	240 V / 211–264 V	208 V / 183–229 V	
Maximum continuous output current	1.45 A (240 VAC)	1.39 A (208 VAC)	
Nominal frequency	60 Hz		
Extended frequency range	47–68 Hz		
AC short circuit fault current over 3 cycles	5.8 Arms		
Maximum units per 20 A (L-L) branch circuit ⁵	11 (240 VAC)	11 (208 VAC)	
Overtoltage class AC port	III		
AC port backfeed current	18 mA		
Power factor setting	1.0		
Power factor (adjustable)	0.85 leading ... 0.85 lagging		
EFFICIENCY		@240 VAC	@208 VAC
CEC weighted efficiency	97.0 %		96.5%
MECHANICAL			
Ambient temperature range	-40°C to +60°C		
Relative humidity range	4% to 100% (condensing)		
Connector type: DC (IQ7A-72-2-US)	MC4		
Dimensions (HxWxD)	212 mm x 175 mm x 30.2 mm (without bracket)		
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		
Environmental category / UV exposure rating	NEMA Type 6 / outdoor		
FEATURES			
Communication	Power Line Communication (PLC)		
Monitoring	Enlighten Manager and MyEnlighten monitoring options Compatible with Enphase IQ Envoy		
Disconnecting means	The AC and DC connectors have been evaluated and approved by UL for use as the load-break disconnect required by NEC 690.		
Compliance	CA Rule 21 (UL 1741-SA) UL 62109-1, UL1741/IEEE1547, FCC Part 15 Class B, ICES-0003 Class B, CAN/CSA-C22.2 NO. 107.1-01 This product is UL Listed as PV Rapid Shut Down Equipment and conforms with NEC 2014, NEC 2017, and NEC 2020, section 690.12 and C22.1-2015 Rule 64-218 Rapid Shutdown of PV Systems, for AC and DC conductors, when installed according manufacturer’s instructions.		

1. No enforced DC/AC ratio. See the compatibility calculator at <https://enphase.com/en-us/support/module-compatibility>.
 2. CEC peak power tracking voltage range is 38 V to 43 V.
 3. Maximum continuous input DC current is 10.2A.
 4. 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.

To learn more about Enphase offerings, visit enphase.com





Q.PEAK DUO BLK ML-G10+ 385-405

ENDURING HIGH PERFORMANCE



BREAKING THE 20% EFFICIENCY BARRIER

Q.ANTUM DUO Z Technology with zero gap cell layout boosts module efficiency up to 20.9%.



THE MOST THOROUGH TESTING PROGRAMME IN THE INDUSTRY

Q CELLS is the first solar module manufacturer to pass the most comprehensive quality programme in the industry: The new "Quality Controlled PV" of the independent certification institute TÜV Rheinland.



INNOVATIVE ALL-WEATHER TECHNOLOGY

Optimal yields, whatever the weather with excellent low-light and temperature behavior.



ENDURING HIGH PERFORMANCE

Long-term yield security with Anti LID Technology, Anti PID Technology¹, Hot-Spot Protect and Traceable Quality Tra.Q™.



EXTREME WEATHER RATING

High-tech aluminum alloy frame, certified for high snow (5400 Pa) and wind loads (4000 Pa).



A RELIABLE INVESTMENT

Inclusive 25-year product warranty and 25-year linear performance warranty².



6 BUSBAR CELL TECHNOLOGY

12 BUSBAR CELL TECHNOLOGY

¹ APT test conditions according to IEC/TS 62804-1:2015, method A (-1500V, 96h)

² See data sheet on rear for further information.

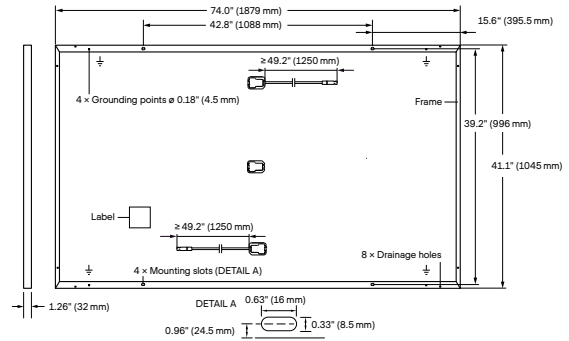
THE IDEAL SOLUTION FOR:



Rooftop arrays on residential buildings

MECHANICAL SPECIFICATION

Format	74.0in x 41.1in x 1.26in (including frame) (1879mm x 1045mm x 32mm)
Weight	48.5lbs (22.0kg)
Front Cover	0.13in (3.2mm) thermally pre-stressed glass with anti-reflection technology
Back Cover	Composite film
Frame	Black anodized aluminum
Cell	6 x 22 monocrystalline Q.ANTUM solar half cells
Junction Box	2.09-3.98in x 1.26-2.36in x 0.59-0.71in (53-101mm x 32-60mm x 15-18mm), IP67, with bypass diodes
Cable	4mm ² Solar cable; (+) ≥ 49.2in (1250mm), (-) ≥ 49.2in (1250mm)
Connector	Stäubli MC4; IP68



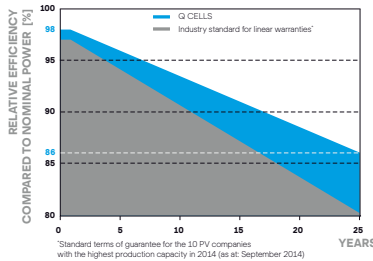
ELECTRICAL CHARACTERISTICS

POWER CLASS		385	390	395	400	405	
MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC ¹ (POWER TOLERANCE +5 W / -0 W)							
Minimum	Power at MPP ¹	P _{MPP} [W]	385	390	395	400	405
	Short Circuit Current ¹	I _{SC} [A]	11.04	11.07	11.10	11.14	11.17
	Open Circuit Voltage ¹	V _{OC} [V]	45.19	45.23	45.27	45.30	45.34
	Current at MPP	I _{MPP} [A]	10.59	10.65	10.71	10.77	10.83
	Voltage at MPP	V _{MPP} [V]	36.36	36.62	36.88	37.13	37.39
	Efficiency ¹	η [%]	≥ 19.6	≥ 19.9	≥ 20.1	≥ 20.4	≥ 20.6
MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NMOT ²							
Minimum	Power at MPP	P _{MPP} [W]	288.8	292.6	296.3	300.1	303.8
	Short Circuit Current	I _{SC} [A]	8.90	8.92	8.95	8.97	9.00
	Open Circuit Voltage	V _{OC} [V]	42.62	42.65	42.69	42.72	42.76
	Current at MPP	I _{MPP} [A]	8.35	8.41	8.46	8.51	8.57
	Voltage at MPP	V _{MPP} [V]	34.59	34.81	35.03	35.25	35.46

¹Measurement tolerances P_{MPP} ± 3%; I_{SC}; V_{OC} ± 5% at STC: 1000 W/m², 25 ± 2 °C, AM 1.5 according to IEC 60904-3 • ²800 W/m², NMOT, spectrum AM 1.5

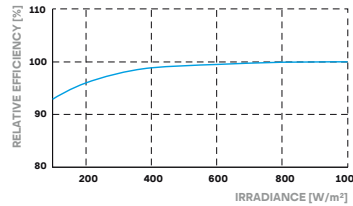
Q CELLS PERFORMANCE WARRANTY

PERFORMANCE AT LOW IRRADIANCE



At least 98% of nominal power during first year. Thereafter max. 0.5% degradation per year. At least 93.5% of nominal power up to 10 years. At least 86% of nominal power up to 25 years.

All data within measurement tolerances. Full warranties in accordance with the warranty terms of the Q CELLS sales organisation of your respective country.



Typical module performance under low irradiance conditions in comparison to STC conditions (25 °C, 1000 W/m²)

TEMPERATURE COEFFICIENTS

Temperature Coefficient of I _{SC}	α	[%/K]	+0.04	Temperature Coefficient of V _{OC}	β	[%/K]	-0.27
Temperature Coefficient of P _{MPP}	γ	[%/K]	-0.34	Nominal Module Operating Temperature	NMOT	[°F]	109 ± 5.4 (43 ± 3 °C)

PROPERTIES FOR SYSTEM DESIGN

Maximum System Voltage V _{sys}	[V]	1000 (IEC) / 1000 (UL)	PV module classification	Class II
Maximum Series Fuse Rating	[A DC]	20	Fire Rating based on ANSI / UL 61730	TYPE 2
Max. Design Load, Push / Pull ³	[lbs/ft ²]	75 (3600 Pa) / 55 (2660 Pa)	Permitted Module Temperature on Continuous Duty	-40 °F up to +185 °F (-40 °C up to +85 °C)
Max. Test Load, Push / Pull ³	[lbs/ft ²]	113 (5400 Pa) / 84 (4000 Pa)		

³See Installation Manual

QUALIFICATIONS AND CERTIFICATES

PACKAGING INFORMATION

UL 61730, CE-compliant, Quality Controlled PV - TÜV Rheinland, IEC 61215:2016, IEC 61730:2016, U.S. Patent No. 9,893,215 (solar cells),



Horizontal packaging	76.4in 1940mm	43.3in 1100mm	48.0in 1220mm	1656lbs 751kg	24 pallets	24 pallets	32 modules
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Note: Installation instructions must be followed. See the installation and operating manual or contact our technical service department for further information on approved installation and use of this product.

Hanwha Q CELLS America Inc.

400 Spectrum Center Drive, Suite 1400, Irvine, CA 92618, USA | TEL +1 949 748 59 96 | EMAIL inquiry@us.q-cells.com | WEB www.q-cells.us

Certificate Of Completion

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Certificate Pages: 5	Initials: 0
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Envelope Stamping: Enabled	April Adolf
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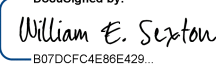
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Signer Events

William E. Sexton
wsexton@ocalafl.org
City Attorney
City of Ocala
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jmittell@Ocalafl.org
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Chris Gowder
chris.gowder@fmpa.com
VP of IT/OT and System Ops
Security Level: Email, Account Authentication (None)

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Editor Delivery Events	Status	Timestamp
Agent Delivery Events	Status	Timestamp
Intermediary Delivery Events	Status	Timestamp

Certified Delivery Events	Status	Timestamp
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Carbon Copy Events	Status	Timestamp
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Witness Events	Signature	Timestamp
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Notary Events	Signature	Timestamp
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Envelope Summary Events	Status	Timestamps
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Electronic Record and Signature Disclosure

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