

OCALA ELECTRIC UTILITY OCALA, FLORIDA

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

APPLICATION FOR INTERCONNECTION OF

CUSTOMEVECTIED Application for TIER 1 - Ten (10) kW or Less TIER 2 - Greater than 10 kW and Less Interconnection of W TIER 3 - Greater than 100 kW and Less Customer-Owned (2) MW

Renewable

Note: These customer-owned r Generation stem 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: DAVID J TUZO Mailing Address: 351 SW 80TH ST City: Ocala State: FL Zip Code: 34476 Phone Number: (352) 484-6502 Alternate Phone Number: Email Address: __david2zo1@centurylink.net _____ Fax Number: _____ Ocala Electric Utility Customer Account Number: 543563-158027 2. RGS Facility Information Facility Location: 351 SW 80TH ST, Ocala, Florida 34476 Ocala Electric Utility Customer Account Number: 543563-158027 RGS Manufacturer: Enphase Energy Manufacturer's Address: Reference or Model Number: Serial Number: IQ7-60-2-US

(Continued on Sheet No.19.1)

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

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

FIRST REVISED SHEET NO. 19.1 CANCELS ORIGINAL SHEET NO. 19.1

3. Facility Rating Information

Gross Power Rating: 26.95 kWdc 18.48 kWac ("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	: 02/01/2022	

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

(Continued on Sheet No. 19.2)

Effective: October 1, 2019

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

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

- 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: DAVID J TUZO	Date: 7/12/2021
(Print Name)	
7-	
(Signature)	

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

OCALA ELECTRIC UTILITY OCALA, FLORIDA

FIRST REVISED SHEET NO. 20.0 CANCELS ORIGINAL SHEET NO. 20.0

Tri-Party Net-Metering Power Purchase Agreement

This	Tri-Party Net-Meter	ing Power	Purchase Agreem	ent (this "Agree	ment") is entere	ed into this
12	day of July	, 20 21	, by and between	the Florida Mun	nicipal Power A	gency, a
gove	rnmental joint action	agency c	reated and existing	under the laws	of the State of I	Florida
(here	inafter "FMPA"), th	e City of	Ocala doing busin	ess as Ocala Ele	ectric Utility, a	body politic
(here	einafter "OEU"), an	d DAV	ID J TUZO			, a retail
	ric customer of OEU					

Section 1. Recitals

- 1.01. OEU and Customer have executed OEU's Standard Interconnection Agreement for a Customer-Owned Renewable Generation System (RGS) pursuant to which OEU has agreed to permit interconnection of Customer's renewable generation to OEU's electric system at Customer's presently-metered location, and Customer has agreed to deliver excess electric energy generated by Customer's Renewable Generation System to OEU's electric distribution system;
- 1.02. The City of Ocala and FMPA have entered into the All-Requirements Power Supply Contract, dated as of May 1, 1986, (hereinafter the "ARP Contract") pursuant to which the City of Ocala has agreed to purchase and receive, and FMPA has agreed to sell and supply OEU with all energy and capacity necessary to operate the OEU electric system, which limits OEU's ability to directly purchase excess energy from customer-owned renewable generation.
- 1.03. In order to promote the development of small customer-owned renewable generation by permitting OEU to allow its customers to interconnect with OEU's electric system and to allow OEU's electric customers to offset their electric consumption with customer-owned renewable generation, FMPA, in accordance with the terms and conditions of this agreement, has agreed to purchase excess customer-owned generation from OEU's electric customers interconnected to OEU's electric system.

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

Section 2. Interconnection

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

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

(Continued on Sheet No. 20.1)

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

Effective: October 1, 2019

OCALA ELECTRIC UTILITY OCALA, FLORIDA (Continued from Sheet No. 20.0) FIRST REVISED SHEET NO. 20.1 CANCELS ORIGINAL SHEET NO. 20.1

Section 3. Metering

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

Section 4. Purchase of Excess Customer-Owned Renewable Generation

- 4.01. Customer-owned renewable generation shall be first used for Customer's own load and shall offset Customer's demand for OEU's electricity. All electric power and energy delivered by OEU to Customer shall be received and paid for by Customer to OEU (Received) pursuant to the terms, conditions and rates of the OEU otherwise applicable rate schedule.
- 4.02. Excess customer-owned renewable generation shall be delivered to the OEU Electric distribution system. For purposes of this Agreement, the term "excess customer-owned renewable generation" means any kWh of electrical energy produced by the customer-owned renewable generation system that is not consumed by Customer and is delivered to the OEU electric distribution system. FMPA agrees to purchase and receive, and Customer agrees to sell and deliver, all excess customer-owned renewable generation at the energy rate established by FMPA, which shall be calculated in accordance with Schedule A. Excess customer-owned renewable generation shall be purchased in the form of a credit on Customer's monthly energy consumption bill from OEU.
- 4.03. In the event that a given monthly credit for excess customer-owned renewable generation exceeds the total billed amount for Customer's consumption in any corresponding month, then the excess credit shall be applied to the subsequent month's bill. Excess energy credits produced pursuant to the preceding sentence shall accumulate and be used to offset Customer's energy consumption bill for a period of not more than twelve (12) months. At the end of each calendar year, any unused excess energy credits shall be paid by OEU to the Customer in accordance with the OEU Electric Net-Metering Service Rate Schedule.

(Continued on Sheet No. 20.2)

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

OCALA ELECTRIC UTILITY OCALA, FLORIDA (Continued from Sheet No. 20.1)

FIRST REVISED SHEET NO. 20.2 CANCELS ORIGINAL SHEET NO. 20.2

- 4.04. FMPA and OEU shall not be required to purchase or receive excess customer-owned renewable generation, and may require Customer to interrupt or reduce production of customer-owned renewable generation, (a) when necessary in order to construct, install, maintain, repair, replace, remove, investigate, or inspect any OEU equipment or part of OEU's system; or (b) if either FMPA or OEU determine, in their sole judgment, that curtailment, interruption, or reduction is necessary because of emergencies, forced outages, force majeure, or compliance with any applicable electric code or standard.
- 4.05. Customer acknowledges that its provision of electricity to OEU hereunder is on a first-offered, first-accepted basis and subject to diminution and/or rejection in the event the total amount of electricity delivered to OEU pursuant to the Net-Metering Service Rate Schedule (as filed with the Florida Public Service Commission), from all participating OEU customers, exceeds two and one-half percent (2.5%) of the aggregate customer peak demand on the OEU electric system.

Section 5. Renewable Energy Credits

- 5.01. Customer shall offer FMPA a first right of refusal before selling or granting to any third party the right to the Green Attributes associated with its customer-owned renewable generation that is interconnected to OEU electric distribution system. The term "Green Attributes" shall include any and all credits, certificates, benefits, environmental attributes, emissions reductions, offsets, and allowances, however entitled, attributable to the generation of electricity from the customer-owned-renewable generation and its displacement of conventional energy generation.
- 5.02. Any additional meter(s) installed to measure total renewable electricity generated by the Customer for the purposes of measuring Green Attributes, including and renewable energy certificates (or similarly titled credits for renewable energy generated), shall be installed at the expense of the Customer, unless determined otherwise during negotiations for the sale of the Customer's credits to FMPA.

Section 6. Term and Termination

- 6.01. This Agreement shall become effective upon execution by all Parties, and shall remain in effect thereafter on a month-to-month basis until terminated by any Party upon thirty (30) days written notice to all other Parties.
- 6.02. This Agreement shall terminate immediately and without notice upon: (a) termination of the electric distribution service by OEU or (b) failure by Customer to comply with any of the terms and conditions of this Agreement or OEU's Standard Interconnection Agreement for Customer-Owned Renewable Generation.

(Continued on Sheet No. 20.3)

OCALA ELECTRIC UTILITY OCALA, FLORIDA (Continued from Sheet No. 20.2) FIRST REVISED SHEET NO. 20.3 CANCELS ORIGINAL SHEET NO. 20.3

Section 7. Miscellaneous Provisions

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

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

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

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

(Continued on Sheet No. 20.4)

Effective: October 1, 2019

OCALA ELECTRIC UTILITY OCALA, FLORIDA (Continued from Sheet No. 20.3)

FIRST REVISED SHEET NO. 20.4 CANCELS ORIGINAL SHEET NO. 20.4

- 7.05. Enforcement of Agreement. In the event that either party is required to enforce this Agreement by court proceedings or otherwise, the prevailing party shall be entitled to recover all fees and costs incurred, including reasonable attorney's fees and costs for trial, alternative dispute resolution, and/or appellate proceedings.
- 7.06. Severability. To the extent any provision of this Agreement is prohibited by or invalid under applicable law, such provision shall be ineffective to the extent of such prohibition or invalidity, without invalidating the remainder of such provision or the remaining provisions of this Agreement.
- 7.07. Third Party Beneficiaries and Sovereign Immunity. This Agreement is solely for the benefit of FMPA, OEU, and Customer and no right nor shall any cause of action accrue upon or by reason, to or for the benefit of any third party not a formal party to this Agreement. Nothing in this Agreement, expressed or implied, is intended or shall be construed to confer upon any person or corporation other than FMPA, OEU, or Customer, any right, remedy, or claim under or by reason of this Agreement or any of the provisions or conditions of this Agreement; and, all provisions, representations, covenants, and conditions contained in this Agreement shall inure to the sole benefit of and be binding upon FMPA, OEU, and Customer and their respective representatives, successors, and assigns. Further, no term or condition contained in this Agreement shall be construed in any way as a waiver by either FMPA or OEU of the sovereign immunity applicable to either or both of them as established by Florida Statutes, 768.28.

(Continued on Sheet No. 20.5)

Effective: October 1, 2019

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

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

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

City of Ocala Electric Utility	Florida Municipal Power Agency
By: Bill Kauffman	By:
Title: ACM / CFO	Title: Bus Dev & Sys Ops Director
Date: 02 / 11 / 2022	Date: 02 / 11 / 2022
Customer By: DAVID J TUZO (Reins Name)	Date:
(Signature)5488. Customer's City of Ocala Electric Utility A	Account Number: 543563-158027

Approved as to form and legality:

Robert W. Batsel, Jr.
Robert W. Batsel, Jr.
Assistant City Attorney

(Continued on Sheet No. 20.6)

Effective: October 1, 2019

OCALA ELECTRIC UTILITY OCALA, FLORIDA

FIRST REVISED SHEET NO. 22.0 CANCELS ORIGINAL SHEET NO. 22.0

Tier 2 Standard Interconnection Agreement Customer-Owned Renewable Generation System

This Agreement i	s made and	l entered into					
between DAVID	J TUZO		,	(hereinafte	er called	"Customer"),	located at
351 SW 80TH ST	in	Ocala		, Flor	ida, and	the City of O	cala doing
business as Ocala							
shall collectively	be called	the "Parties	". The	physical	location/p	remise where	the inter-
connection is takin	g place:	351 SW 80TH	ST, Ocal	a, Florida 3	4476		

WITNESSETH

Whereas, a Tier 2 Renewable Generation System (RGS) is an electric generating system that uses one or of 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 more than 10 kilowatts (10 kW) but not greater than 100 kilowatts (100 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 parts of the City of Ocala and Marion County; and

Whereas, Customer has made a written Application to OEU, a copy being attached hereto, to interconnect its RGS with OEU's electrical supply grid at the location indentified 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 OEU has agreed to purchase and receive, and FMPA has agreed to sell and supply OEU with all energy and capacity necessary to operate OEU's electric system, which limits OEU's ability to directly purchase excess energy from customer-owned renewable generation; and

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

Whereas, 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;

(Continued on Sheet No. 22.1)

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

Effective: October 1, 2019

OCALA ELECTRIC UTILITY OCALA, FLORIDA (Continued from Sheet No. 22.0) FIRST REVISED SHEET NO. 22.1 CANCELS ORIGINAL SHEET NO. 22.1

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

- 1. The Customer shall be required to enter into a Tri-Party Net-Metering Purchase Power Agreement with FMPA and 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 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 2 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. In no case should modifications to the RGS be made such that the GPR increases above the 100 kilowatts (100 kW) limit.
- 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 be required to pay a non-refundable application fee of \$375 for the review and processing of the application.
- 6. The Customer shall fully comply with OEU's Rules and Regulations and Electric Service Specifications as those documents may be amended or revised by OEU 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*.

(Continued on Sheet No. 22.2)

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

OCALA ELECTRIC UTILITY OCALA, FLORIDA (Continued from Sheet No. 22.1) FIRST REVISED SHEET NO. 22.2 CANCELS ORIGINAL SHEET NO. 22.2

- 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.
- 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 OEU 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. 22.3)

Effective: October 1, 2019

OCALA ELECTRIC UTILITY OCALA, FLORIDA (Continued from Sheet No. 22.2) FIRST REVISED SHEET NO. 22.3 CANCELS ORIGINAL SHEET NO. 22.3

- 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 a utility-interactive inverter or interconnection system equipment that ceases to interconnect with the OEU system upon a loss of OEU 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 which (i) utilizes the same utility-interactive inverter for both systems; or (ii) utilizes a separate utility-interactive inverter for each system, then Customer shall provide OEU with sixty (60) days advance written notice of the addition.
- 14. The Customer shall not energize the OEU system when OEU's system is deenergized. The Customer shall cease to energize the OEU system during a faulted condition on the OEU system and/or upon any notice from OEU that the deenergizing of Customer's RGS equipment is necessary. The Customer shall cease to energize the OEU system prior to automatic or non-automatic reclosing of OEU's protective devices. There shall be no intentional islanding, as described in IEEE 1547, between the Customer's and OEU's systems.
- 15. The Customer is responsible for the protection of its generation equipment, inverters, protection devices, and other system components from damage from the normal and abnormal operations that occur on OEU's electric 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's electric 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 electric system such that back feed from the customer-owned renewable generation system to OEU's electric system cannot occur when the switch is in the open position. The manual disconnect switch shall be mounted separate from the meter socket on an exterior surface adjacent to the meter. The switch shall be readily accessible to OEU and capable of being locked in the open position with an OEU padlock. When locked and tagged in the open position by OEU, this switch will be under the control of OEU.

(Continued on Sheet No. 22.4)

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

OCALA ELECTRIC UTILITY OCALA, FLORIDA (Continued from Sheet No. 22.3) FIRST REVISED SHEET NO. 22.4 CANCELS ORIGINAL SHEET NO. 22.4

- 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 Sections 18 and 19, 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 million dollars (\$1,000,000.00).
- 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 also 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.
- 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 OUS 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.

(Continued on Sheet No. 22.5)

Effective: October 1, 2019

OCALA ELECTRIC UTILITY OCALA, FLORIDA (Continued from Sheet No. 22.4) FIRST REVISED SHEET NO. 22.5 CANCELS ORIGINAL SHEET NO. 22.5

- 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 utility system emergencies, forced outages, uncontrollable forces or compliance with prudent electric utility 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 utility system due to the operation of the Customer's generation or protective equipment as determined by OEU.
 - d. Adverse electrical effects (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.
- 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.

(Continued on Sheet No. 22.6)

Effective: October 1, 2019

OCALA ELECTRIC UTILITY OCALA, FLORIDA (Continued from Sheet No. 22.5) FIRST REVISED SHEET NO. 22.6 CANCELS ORIGINAL SHEET NO. 22.6

- 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, contractors (and any subcontractor or material supplier thereof), agents 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.
- 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

(Continued on Sheet No. 22.7)

Effective: October 1, 2019

OCALA ELECTRIC UTILITY OCALA, FLORIDA (Continued from Sheet No. 22.6) FIRST REVISED SHEET NO. 22.7 CANCELS ORIGINAL SHEET NO. 22.7

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 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 nongenerating 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.
- 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 2.5 percent (%) of the aggregate customer peak demand on OEU's electric 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. 22.8)

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

OCALA ELECTRIC UTILITY OCALA, FLORIDA (Continued from Sheet No. 22.7)

> Robert W. Batsel, Jr. Assistant City Attorney

FIRST REVISED SHEET NO. 22.8 CANCELS ORIGINAL SHEET NO. 22.8

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

By: DAVID J TUZO (Signature) 7/12/2021 Date:
(Signature) 7/12/2021
7/12/2021
City of Ocala Electric Utility Account Number 543563-158027

Effective: October 1, 2019

POLICY NUMBER SHO 20x1621 04 89 www.southernfidelityins 64 1/2021 Date feated AGENT: 0x20x25 DREW DITTY AGENCY INC. DREW DITTY AGENCY INC. DREW DITTY 1/21 SE 16TH AVE STE 102 DCALAF 134/11 Telephone. 352-732-9/32 ured address unless otherwise Y RENEWAL EFFECTIVE I The state of this LITY 00 00 00 00 00 00 00 00 00 00 00 00 00	optia/2021 control of the control of	PREMIUMS 02,746.00 1NCLUMBER 1NCLUMBER 530.00
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The expected range is based on 30 years of actual weather data at the given location and is intended to provide an indication of the variation you might see. For more information, please refer to this NREL report: The Error Report.

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The energy output range is based on

The energy output range is based on analysis of 30 years of historical weather data for nearby, and is intended to provide an indication of the possible interannual variability in generation for a Fixed (open rack) PV system at this location.

RESULTS

9,592 kWh/Year*

System output may range from 9,173 to 9,850 kWh per year near this location

Month	Solar Radiation	AC Energy (kWh)	Value (\$)
January	5.16	784	97
February	5.43	731	90
March	6.01	893	110
April	6.37	898	111
May	6.19	887	109
June	5.49	762	94
July	5.38	770	95
August	5.59	796	98
September	5.30	745	92
October	5.84	858	106
November	5.32	754	93
December	4.63	714	88
nnual	5.56	9,592	\$ 1,183

Location and Station Ide	ntification
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Requested Location	351 SW 80TH ST, Ocala, Florida 34476
Weather Data Source	Lat, Lon: 29.09, -82.14 1.1 mi
Latitude	29.09° N
Longitude	82.14° W

PV System Specifications (Residential)

DC System Size	8.4 kW
Module Type	Standard
Array Type	Fixed (roof mount)
Array Tilt	30°
Array Azimuth	184°
System Losses	34.45%
Inverter Efficiency	97%
DC to AC Size Ratio	1.2
Essemine	

Economics		
Average Retail Electricity Rate	0.123 \$/kWh	
Performance Metrics		
Capacity Factor	13.0%	

MNREL

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The energy output range is based on analysis of 30 years of historical weather data for nearby, and is intended to provide an indication of the possible interannual variability in generation for a fixed (open rack) PV system at this location.

RESULTS

4,548 kWh/Year*

System output may range from 4,350 to 4,671 kWh per year near this location.

Month	Solar Radiation	AC Energy	Value
	(kWh / m ² / day)	(kWh)	(\$)
January	3.20	284	35
February	3.86	306	38
March	4.80	419	52
April	5.85	482	59
May	6.08	507	63
June	5.49	445	55
July	5.14	428	53
August	5.00	417	51
September	4.39	362	45
October	4.22	363	45
November	3.43	284	35
December	2.82	252	31
Annual	4,52	4,549	\$ 562

Location and Station Identification

Requested Location	351 SW 80TH ST, Ocala, Florida 34476	
Weather Data Source	Lat, Lon: 29.09, -82.14 1.1 mi	
Latitude	29.09° N	
Longitude	82.14° W	

.

PV System Specifications (Residential)

DC System Size	4.9 kW
Module Type	Standard
Array Type	Fixed (roof mount)
Array Tilt	30°
Array Azimuth	274°
System Losses	34.45%
Inverter Efficiency	97%
DC to AC Size Ratio	1.2
Economics	
Average Retail Electricity Rate	0.123 \$/kWh

Performance Metrics

Capacity Factor	10.6%	

∷NREL

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The energy output range is based on analysis of 30 years of historical weather data for nearby, and is intended to provide an indication of the possible interannual variability in generation for a Fixed (open rack) PV system at this location.

RESULTS

3,942 kWh/Year*

System output may range from 3,770 to 4,048 kWh per year near this location

Month	Solar Radiation (kWh/m²/day)	AC Energy (kWh)	Value (\$)
January	3.52	246	30
February	4.17	259	32
March	5.20	356	44
April	6.10	395	49
May	6.63	435	54
June	6.14	390	48
July	6.04	396	49
August	5.76	376	46
September	4.85	314	39
October	4.63	314	39
November	3.76	245	30
December	3.08	217	27
Annual	4.99	3,943	\$ 487

ı	ocation	and	Station	Identification

Requested Location	351 SW 80TH ST, Ocala, Florida 34476
Weather Data Source	Lat, Lon: 29.09, -82.14 1.1 mi
Latitude	29.09° N
Longitude	82.14° W

PV System Specifications (Residential)

August Datail Floatricity Bata	0.422 \$/1/1/16	
Economics		
DC to AC Size Ratio	1.2	
Inverter Efficiency	97%	
System Losses	28.25%	
Array Azimuth	95°	
Array Tilt	23°	
Array Type	Fixed (roof mount)	
Module Type	Standard	
DC System Size	3.5 kW	

Capacity Factor

Economics		
Average Retail Electricity Rate	0.123 \$/kWh	
Performance Metrics		
Canacity Factor	12.9%	

∷NREL

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The energy cutput range is based on analysis of 30 years of historical weather data (or nearby, and is intended to provide an indication of the possible interannual variability in generation for a Fixed (open rack) PV system at this location.

RESULTS

3,309 kWh/Year*

System output may range from 3,164 to 3,398 kWh per year near this location

Month	Solar Radiation (kWh/m²/day)	AC Energy (kWh)	Value (\$)
January	3.27	204	25
February	3.96	221	27
March	4.94	304	37
April	6.03	350	43
May	6.30	371	46
June	5.72	327	40
July	5.38	316	39
August	5.22	306	38
September	4.55	264	33
October	4.31	261	32
November	3.49	204	25
December	2.88	180	22
Annual	4.67	3,308	\$ 40

Location and Station Identification

Requested Location	351 SW 80TH ST, Ocala, Florida 34476	
Weather Data Source	Lat, Lon: 29.09, -82.14 1.1 mi	
Latitude	29.09° N	
Longitude	82.14° W	

PV System Specifications (Residential)

DC System Size	3.15 kW
Module Type	Standard
Array Type	Fixed (roof mount)
Array Tift	23°
Array Azimuth	275°
System Losses	28.25%
Inverter Efficiency	97%
DC to AC Size Ratio	1.2
Economics	

Average Retail Electricity Rate	0.123 \$/kWh
Performance Metrics	
Capacity Factor	12.0%

∷NREL

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The energy output range is based on analysis of 30 years of historical weather data for nearby, and is intended to provide an indication of the possible interannual variability in generation for a fixed (open rack) PV system at this location.

RESULTS

5,772 kWh/Year*

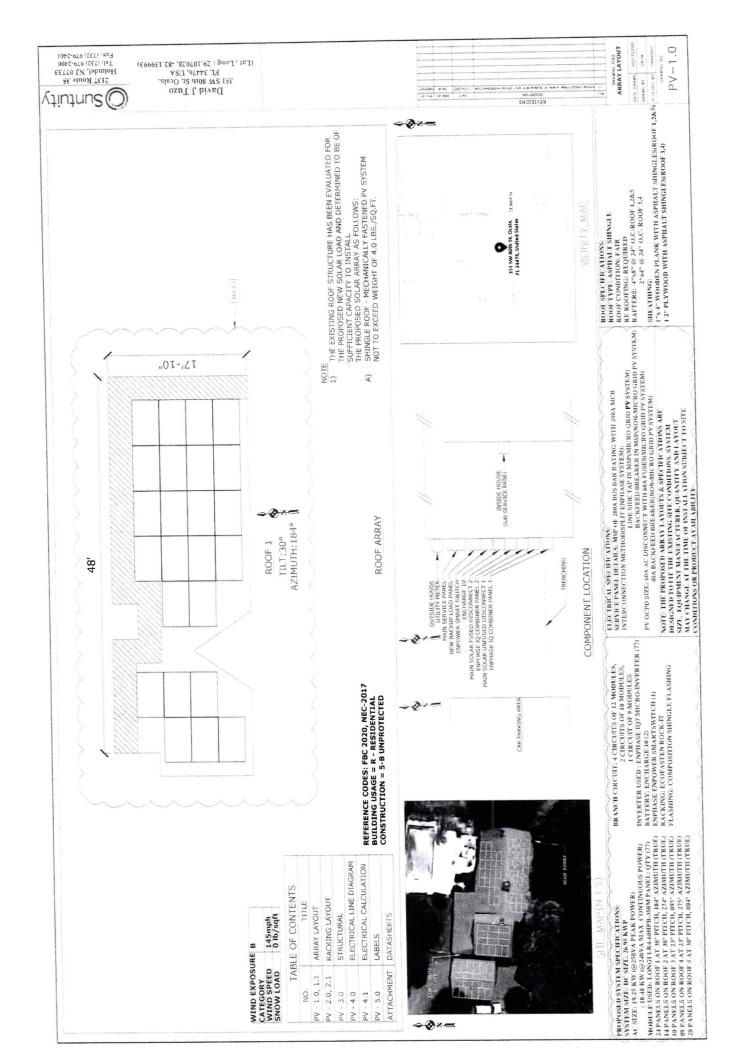
System output may range from 5,520 to 5,928 kWh per year near this location

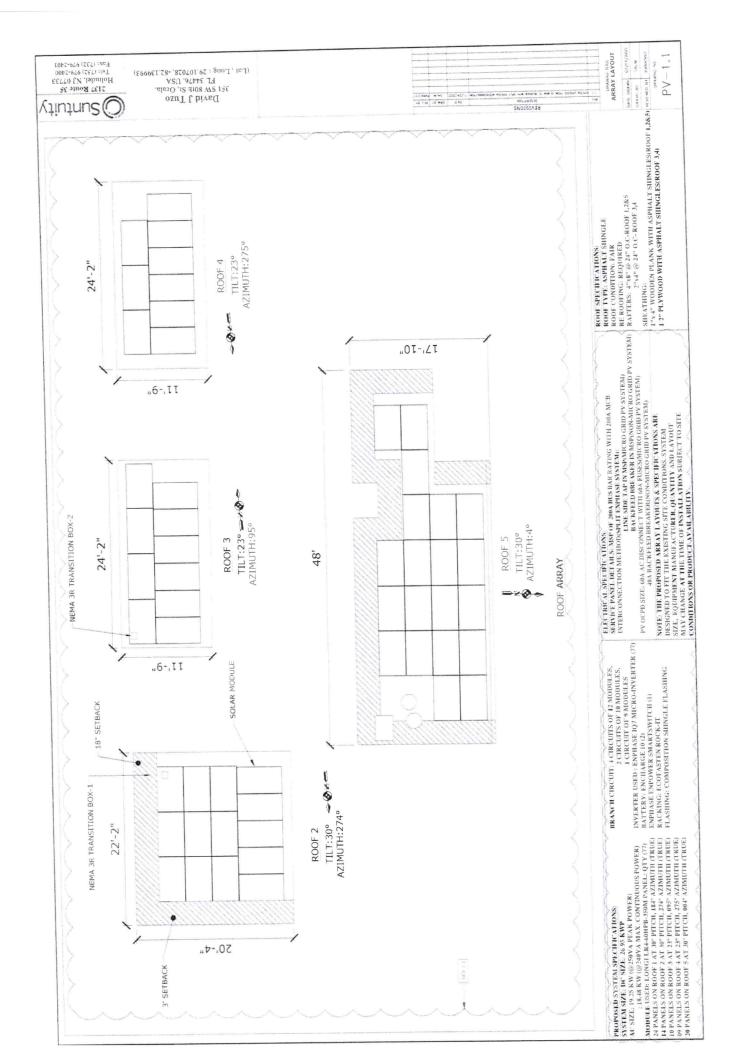
Month	Solar Radiation (kWh/m²/day)	AC Energy (kWh)	Value (\$)
January	1.30	165	20
February	2.22	268	33
March	3.55	494	61
April	5.07	684	84
May	6.05	833	103
June	5.79	772	95
July	5.49	756	93
August	4.82	659	81
September	3.61	481	59
October	2.55	335	41
November	1.54	187	23
December	1.06	138	17
nnual	3.59	5,772	\$ 710
Requested Location		H ST, Ocala, Florida 34476	
Neather Data Source	Lat, Lon: 29 29.09° N		
Neather Data Source	Lat, Lon: 29		
Neather Data Source	Lat, Lon: 29 29.09° N 82.14° W		
Neather Data Source Latitude Longitude	Lat, Lon: 29 29.09° N 82.14° W		
Neather Data Source Latitude Longitude PV System Specification	Lat, Lon: 29 29.09° N 82.14° W ns (Residential)		
Neather Data Source Latitude Longitude PV System Specification DC System Size	Lat, Lon: 29 29.09° N 82.14° W ns (Residential) 7 kW	.09, -82.14 1.1 mi	
Neather Data Source Latitude Longitude PV System Specification DC System Size Module Type	Lat, Lon: 29 29.09° N 82.14° W ns (Residential) 7 kW Standard	.09, -82.14 1.1 mi	
Neather Data Source Latitude Longitude PV System Specification DC System Size Module Type Array Type	Lat, Lon: 29 29.09° N 82.14° W ns (Residential) 7 kW Standard Fixed (roof	.09, -82.14 1.1 mi	
Neather Data Source Latitude Longitude PV System Specification DC System Size Module Type Array Type Array Tilt	Lat, Lon: 29 29.09° N 82.14° W ns (Residential) 7 kW Standard Fixed (roof 30°	.09, -82.14 1.1 mi	
Neather Data Source Latitude Longitude PV System Specification DC System Size Module Type Array Type Array Tilt Array Azimuth	Lat, Lon: 29 29.09° N 82.14° W ns (Residential) 7 kW Standard Fixed (roof 30° 4°	.09, -82.14 1.1 mi	
Neather Data Source Latitude Longitude PV System Specification DC System Size Module Type Array Type Array Tilt Array Azimuth System Losses	Lat, Lon: 29 29.09° N 82.14° W ns (Residential) 7 kW Standard Fixed (roof 30° 4° 25.59%	.09, -82.14 1.1 mi	
Neather Data Source Latitude Longitude PV System Specification DC System Size Module Type Array Type Array Tilt Array Azimuth System Losses Inverter Efficiency	Lat, Lon: 29 29.09° N 82.14° W ns (Residential) 7 kW Standard Fixed (roof 30° 4° 25.59% 97%	.09, -82.14 1.1 mi	

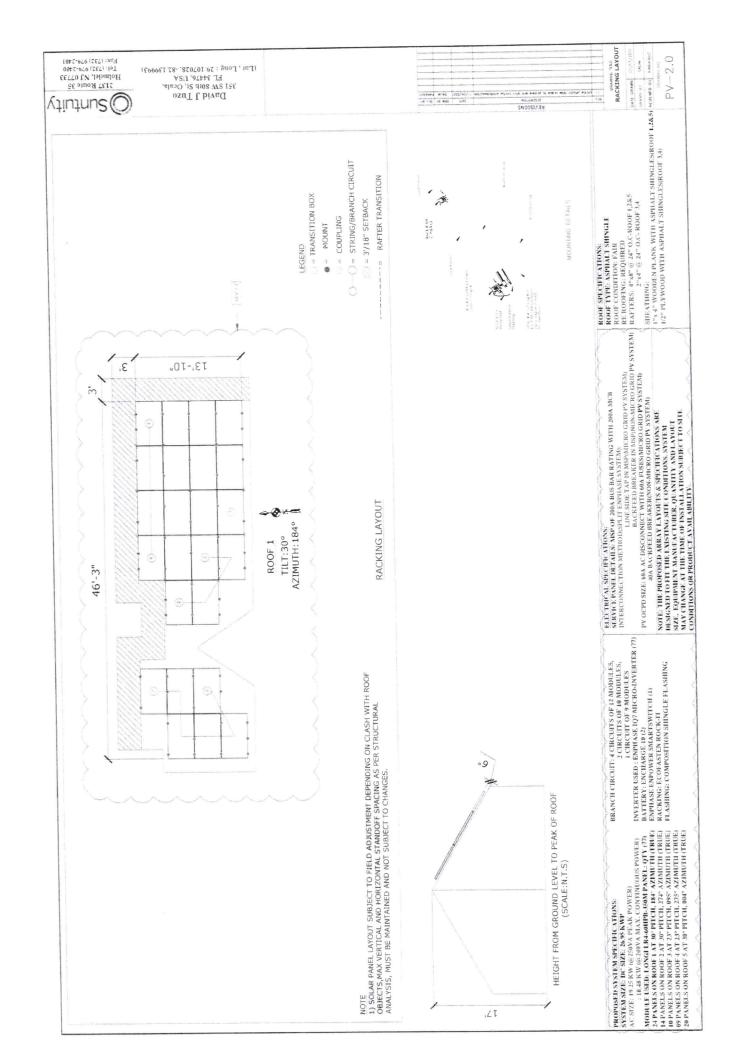
9.4%

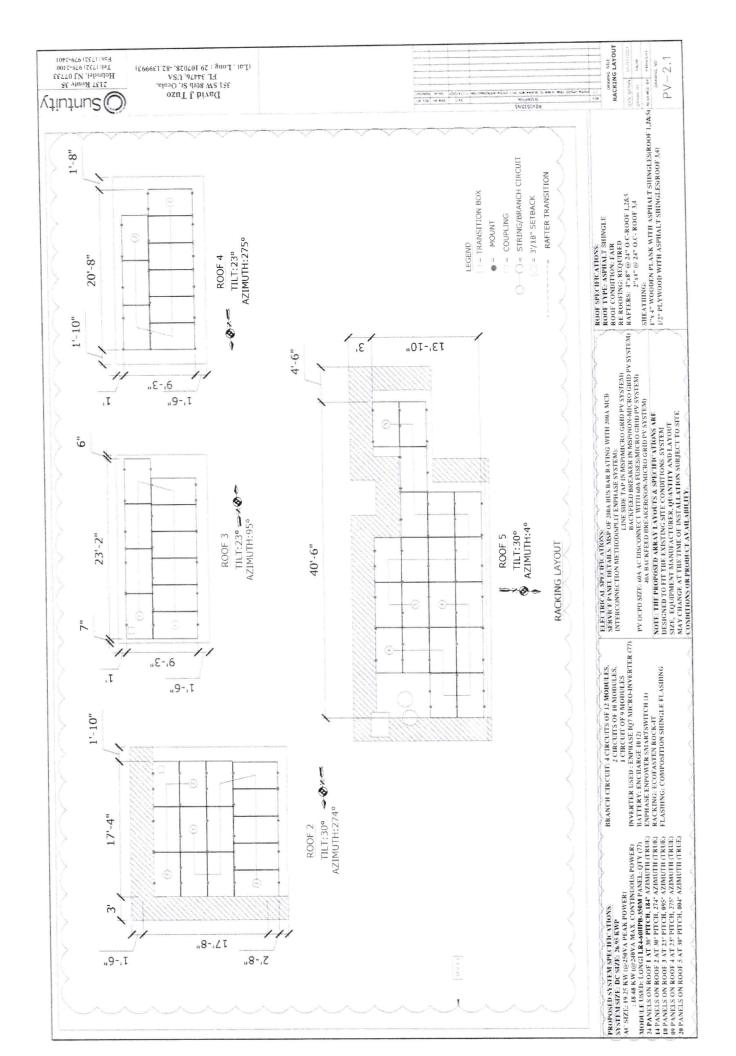
Performance Metrics

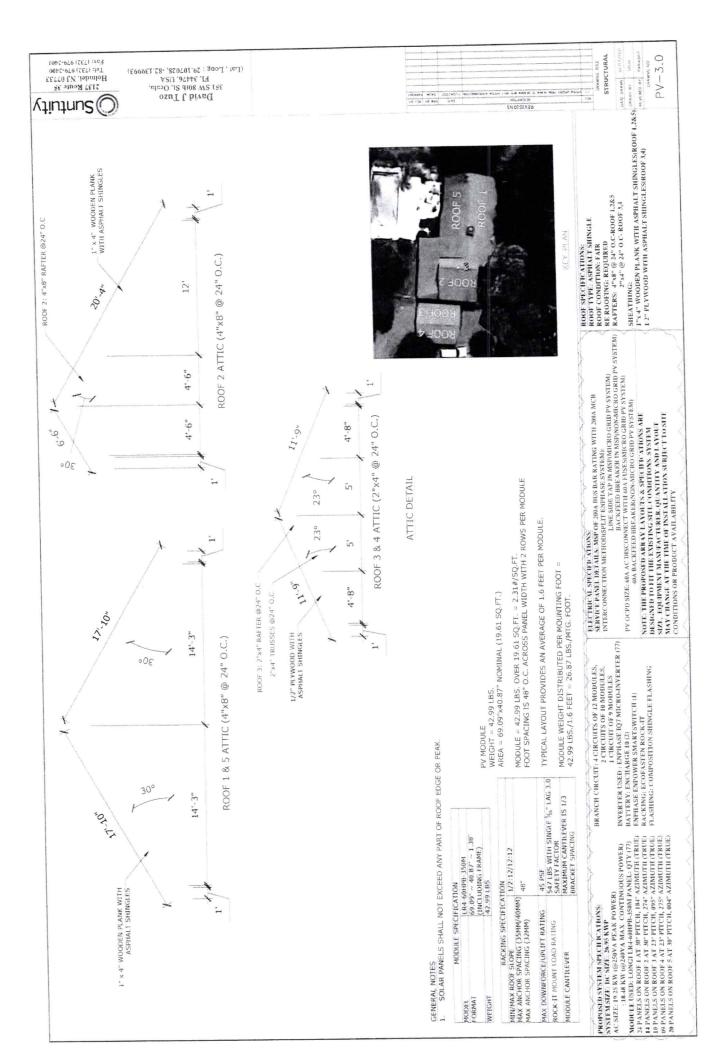
Capacity Factor

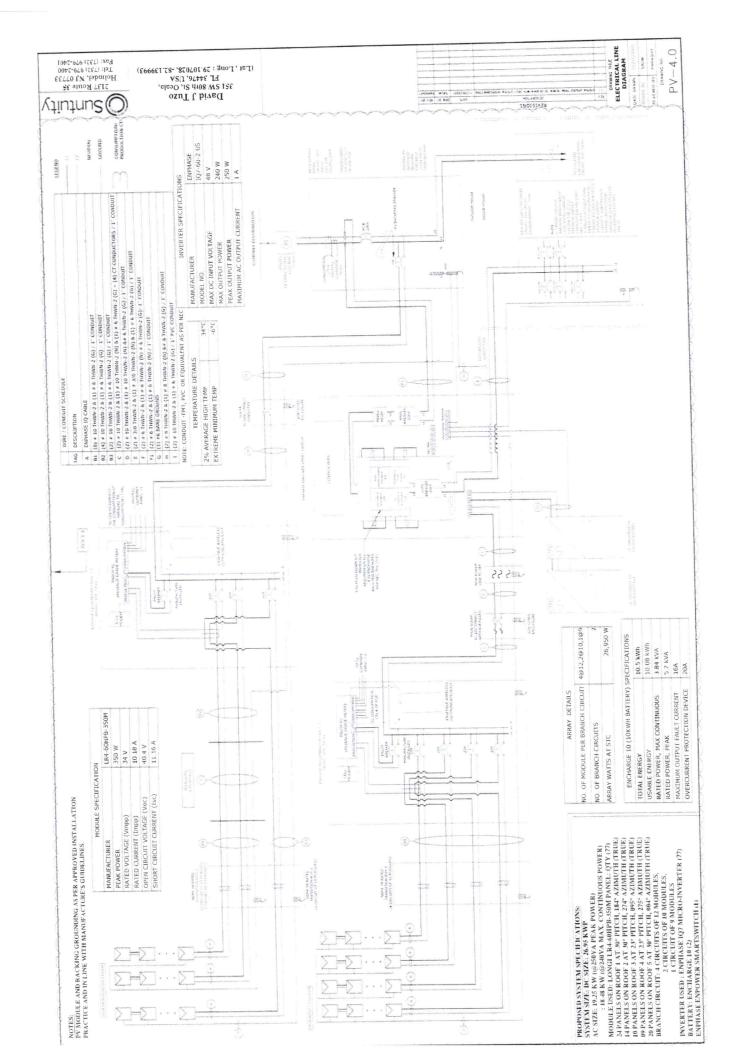


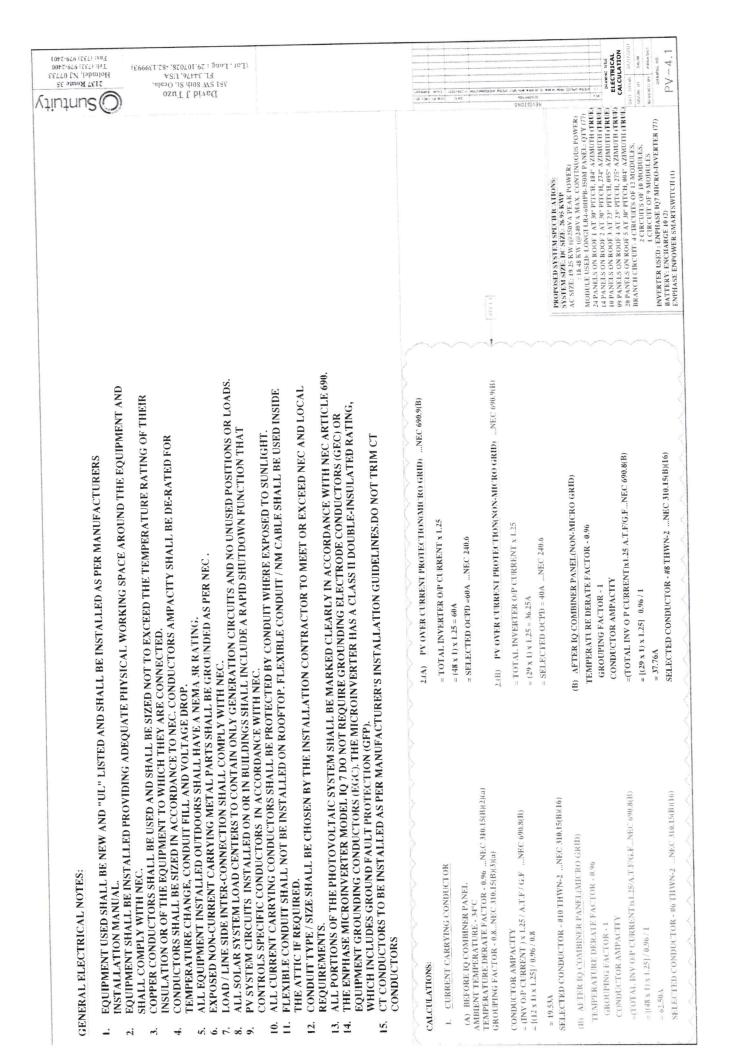


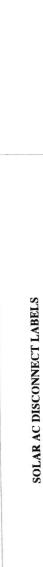












2137 Roule 35 Holmdel, NJ 07733 Tel: (732) 979-2400 Fax: (732) 979-2401

Suntuity 🔘

CONDUIT LABELS









WARNING

NOTICE

PHOTOVOLTAIC AC SOURCE. UTILITY METER WARNING CAUTION

A DUAL POWER SOURCE.

David J Tuzo 351 SW 80th St. Ocala, FL 34476, USA (Lat , Long : 29.107028, -82.139993)

SERVICE PANEL LABEL







MATERIAL STANDS

STAND

LABELS

THIS IS MAIN 2 OF 2 WITH MAIN 1 OF 2 LOCATED INSIDI

AC COMBINER LABELS





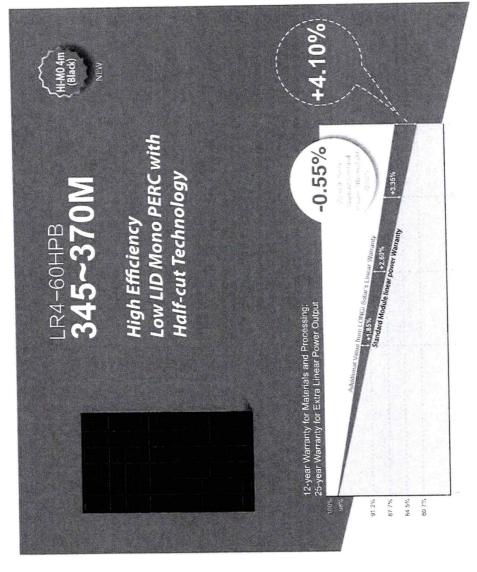


WITH RAPID SHUTDOWN



_		-	
			-
200	-[-
		-	
V			

TURN RAPID SHUTDOWN
SWICH TO THE
"OFF" POSITION TO
SHUTDOWN PV SYSTEM
AND REDUCE
SHOCK HAZARD
IN ARRAY



Complete System and Product Certifications

Solid PID resistance ensu en by solar cell process optimization and carefar medule BOM

Slower power degradation enabled by Love LID Mono PERC rechnology. First year $<\!2\%$,

High module conversion efficiency (up to 20 3%) Positive power tolerance (3 * +5VI) guanantueu





S S S

Reduced hat spot risk with opininged electrical designanciower operabilis current

Higher energy yield with lowal operating telepelature Reduced resistive loss with lower operaling current



LR4-60HPB **345~370M**Mechanical Parameters Operating Parameters

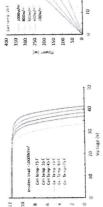
Design (mm)

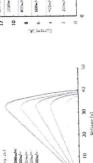
		ō	Aunchan Box Inf.S. the down	Power Output Specimen 12, 11, 12
		1	Output Cable: 1 1.1.0, 181 all	Wa and Ly Toleranov, To
		45/11/1-	Glass: Serpinging	Albairsen Spherry Manger 14 through 1918
		d	3.5% years renounting Bare	Acceptant Seven Participating 23%
	í		France, New Lists Currier aliay	Name of Christing Cell for productions and
!	•		Wolfitt 19 %g	Safetty (Cassa Cita & M
		first parentil	Chreepsing 17 vo. 19468 Fin c	Live Rating Co. p 2. 8
	T.	Linns	Packaging alcomoter in the	
785	-A		DARTHER TOTAL	

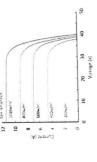
Absolute Minimipae	104. GOLDB. 345M 184-60HPB-350M 184-60HPB-355M 184-60HPB-360M 1R4-60HPB-365M 1R4-6UHPB-370M	4PB-350M	1RA-60HF	19-345kM	LR4 60HP	M-360M	LR4-60HF	P-365M	UR:1-60H	PB-370M
	T STC	FAOCT	NOCT SEC ROST ST.	ROST	STS	170%	STC	N.N.	316	NOCT
		261.4 355	355	265 1	300	268.8	365	272 6	376	2/63
	37.7 46.4	33.0	45.6	45.6 381 40.8			41.0	43.6 38.4	7.10	
Sheet Cream Current Reads	5 1116	9.02	11 25	9.09	9.09 11.33	9 16	1141	9 23	11 50	0F 6
	- 15	32.0	34.6	32.2	32.2 3:8			32.0	35.2	30.8
		8 16	10 27	10 27 8 23	56 07	8.30	10.35 8.30 10.43 8.36	3 36	10.52	8 43
33		2.5	3							

	9.	
	Mechanical Loadin	
do s someoni o efficio in chaleno un'o del finanzia distributivo scio del terresoni o efficio del como de productivo del como del	emperature Ratings (STC)	
-		

Temperature Ratings (STC)		Mechanical Loading	
Temperature Coefficient of 1sc	1,00485.4	Front Side Maximum Static Loading	≥ iUtrea
Temperature Coefficient of Voc	W/2014/00/00	Rear Side Maximum Static Loading	
Temperature Coefficient of Pmax	17 - Del 10	Hailstone Test	Zinn Hallstone of the seeed of 24m/s
I-V Curve			
(MOSE ROMOS AND MOSE STATEMENT		Power-Voltage Curve (LR4-60HPB-360M)	Current-Voltage Curve LR4-60HPB-360M







Microinverters 1Q 7 and 1Q 7+ Enphase

The high-powered smart grid-ready

dramatically simplify the installation process while Enphase IQ 7 Micro" and Enphase IQ 7+ Micro" achieving the highest system efficiency.

IQ Envoy", Enphase IQ Battery", and the Enphase IQ 7+ Microinverters integrate with the Enphase Enlighten" monitoring and analysis software. Part of the Enphase IQ System, the IQ 7 and

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



Easy to Install

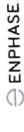
- Lightweight and simple
- · Faster installation with improved, lighter two-wire cabling
 - Built-in rapid shutdown compliant (NEC 2014 & 2017)

Productive and Reliable

- Optimized for high powered 60-cell and 72-cell* modules
 - 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
 - · Remotely updates to respond to changing grid requirements
 - · Configurable for varying grid profiles
 - Meets CA Rule 21 (UL 1741-SA)



* The IQ 7+ Micro is required to support 72-cell modules

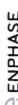
To learn more about Enphase offerings, visit enphase.com

Enphase Enpower

ACCESSORIES and REPLACEMENT PARTS XA-E3-PGBA-ENS EP200G-NA-HD-200A EP200G-NA-HD-R1 Circuit breakers (as needed) ^{2, 3} BRK-100A-2P-240V BRK-100A-2P-240V BRK-105A-2P-240V MRR-105A-2P-240V MRR-105A-2P-240	
needed) ^{2,3}	
0A	Genjanaman Ennowar constrollar printed plouts board
needed)?. 3	respinational Carpowel Controlled Printed Citation Court Design
песецу ² . 3	in type by circuit of earlet floid down solew An, DRITON 123
ilecuca)	Enpawer installation handle kit (order separately)
	Not included, must order separately:
	Main broades 2 puts, 100A, 25AAIC, CSR2100
	Main breaker, 2 pole, 125A, 25KAIC, CSR2125N Main breaker, 2 pole, 1504, 25KAIC, CSP2150N
	Main breaker, 2 pole, 1754, 25k4IC, CSR2175N
BRK-200A-2P-240V	Main breaker, 2 pole, 200A, 25kAIC, CSR2200N
BRK-20A-2P-240V-B	Circuit breaker, 2 pole, 20A, 10kAlC, BR220B
	Circuit breaker, 2 pole, 30A, 10kAIC, BR230B
	Circuit breaker, 2 pole, 40A, 10kAIC, BR240B
60 SP-240V Cir. BRK-80A-2P-240V Cir. BRK-80A-2P-240V Cir.	Circuit breaker, 2 pole, 60A, 10kAtC, BR260 Circuit breaker 2 note 90A, 10kAtC, RD290
SPECIFICATIONS	
Assembly rating Coni	Continuous aperation at 100% of its rating
Nominal voltage / range (L-L)	240 VAC / 100 - 310 VAC
Volkage measurement accuracy	11% V nominal (±1 2V L·N and ±2.4V L·L)
Auxiliary contact for load control and excess PV control	47
Nominal frequency / range	60 Hz / 56 · 63 Hz
Frequency measurement accuracy	24
Maximum continuous current rating	
Maximum Input overcurrent protection device	
Maximum output overcurrent protection device	
Maximum overcurrent protection device rating for storage branch circuit ⁴ 80A	
Maximum overcurrent protection device rating for PV combiner branch circuit ⁴ 80A	
Neutral Forming Transformer (NFT) - Brea - Con	Breaker rating (pre-installed): 40A between L1 and Neutral; 40A between L2 and Neutral Continuous rated power: 3600VA
Mary - Ma	Maximum continuous unbalance current: 30A @ 1/20V Peak reited (power; 980/04/04/07 30 seconda Propertional runant talk (p. 170 for 20 seconda
MECHANICAL DATA	CHIEDAGE CO. DI ACT. DI CO. CHIEDAGE CO. CHI
Dimensions (WxHxD) 50cm	50cm x 91 6cm x 24.6cm (19.7 In x 36 in x 9.7 In)
Weight 38.5 k	38 5 kg (85 lbs)
temperature range	-40° C to +50° C (-40° F to 122° F)
	Natural convection, plus heat shield
re environmental rating	Outdoor, NEMA type 3R, polycarbonate construction
	To 2500 meters (8200 feet)
WIRE SIZES	
• Main • Main	- Main lugs and backup load lugs Cu/Al-1 AWG - 309 KCMIL
00V.	• AC combluer lugs, Encherge lugs, and generator lugs • Neutrel (large lugs) Cu/AL 8 AWG - 300 KCARL
Neutral and ground bars	UNE
COMPLIANCE	
Compliance UL 174	UL 1741, UL 1741 SA, UL 1741 PCB, UL1998, UL869A?, UL67º, UL508º, UL50Eº

- 2. Comparatine with BiH10K125 Hold-Brazer Act to comply with 2017 ME 21th 354 has back led opcult breakers. 3. The Emovies is and 22 24 and 24 an

To learn more about Enphase offerings, visit <u>enphase.com</u>
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Energy, Inc. Data subject to change, 2021 01 25



Enphase IQ 7 and IQ 7+ Microinverters

197-60-2-US 197-60-2-US 197-60-1-US 197-60-2-US 197-60-1-US 197-60-1-US 197-60-1-US 197-		City of the Property of the Control of the Property of the Control	10701 HC 79-9-HC / 10701 HC 72-R-US
ule isc) ule sc) ul	INPUT DATA (BC)	107-60-2-05/10/-60-6-05	14/FLUS-12-2-05/14/15-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2
ule Isc) ent ent checken seves checken che	Commonly used module pairings1	235 W - 350 W +	235 W - 440 W +
oltage voltage e current (module lsc) f port rent n s output power s/ange² s output current range current over 3 cycles current over 3 cycles frent rent rent rent rent ob_2-US & IQ7PLUS-72-2-US) 0-B-US & IQ7PLUS-72-B-US) ory / UV exposure rating sis	Module compatibility	60-cell PV modules only	60-cell and 72-cell PV modules
voltage eurrent (module Isc) port rent n s output power s output power s output current range current over 3 cycles current over 3 cycles current over 3 cycles so (1-L.) branch circuit? port rent rent nable) o B-US & IQ7PLUS-72-8-US) o B-US & IQ7PLUS-72-8-US) o B-US & IQ7PLUS-72-8-US) sations	Maximum input DC voltage	48 V	Λ09
e current (module lsc) 1: port rent 1: port rent 2: s output power 3: s output power 3: s output current current over 3 cycles 0: A (L-L) branch circuit 2: port rent angle current over 3 cycles 0: A (L-L) branch circuit 2: port rent angle 3: a range 3:	Peak power tracking voltage	27 V - 37 V	27 V - 45 V
e current (module lsc) rent rent s output power s/range² s output current range current over 3 cycles courrent over 3 cycles courrent over 3 cycles current rent rent rent rent rent rent rent	Operating range	16 V - 48 V	16 V - 60 V
current (module Isc) rent rent rent sylange² s output power current over 3 cycles current over 3 cycles current over 3 cycles current over 3 cycles frent rent rent rent rent rent rent rent	Min/Max start voltage	22 V / 48 V	22 V / 60 V
s output power s/range² s output power current over 3 cycles current over 3 cycles current over 3 cycles (0 A (L-L) branch circuit? port rrent rrent a range over 5 port a range over 6 (2-US & IQ7PLUS-72-2-US) (0-B-US & IQ7PLUS-72-B-US)	Max DC short circuit current (module Isc)	15 A	15 A
s output power sylange² s output power range current over 3 cycles current con A (LL) branch circuit² port frent nable) selicy a range ge g	Overvoltage class DC port	=	=
s output power s/ange² s output current range current over 3 cycles corrent over 3 cycles corrent over 3 cycles co (A (L-L) branch circuit? port rrent rent rent rent rent rent rent r	DC port backfeed current	0.4	PA
s output power s/range² s output current range current over 3 cycles current con A (L-L) branch circuit² port rrent able; or A (L-L) branch circuit² port rrent crent	PV array configuration	1 x 1 ungrounded array; No additi	onal DC side protection required; 0A per branch circuit
s output power sylange² s output current range current over 3 cycles current renge corrent renge corrent renge corrent renge sylange	OBTRICT DATA (AC)	10 7 Microinverter	IQ 7+ Microinverter
uus output power ge/range² ous output current ous output current ous output current ous output current ous 73 oycles 120 A (L-L) branch circuit? AC port ourrent ous able) ostable) ostable) ostable) AC bout ous ange A-60-2-US & IQ7PLUS-72-2-US) C-60-B-US & IQ7PLUS-72-B-US) C-60-B-US & IQ7PLUS-72-B-US) ans ans	Dead cutting cower	250 VA	295 VA
(ILL) voltage/range² m continuous output current frequency difequency ange tricuit fault current over 3 cycles m units per 20 A (L-L) branch circuit² tage class AC port actor setting actor setting actor setting actor faultstable) ENCY EC efficiency suitch DATA AIRCAL DATA Tremperature range from (IQ7-60-8-US & IQ7PLUS-72-8-US) for type (IQ7-60-8-US & IQ7PLUS-72-8-US) for	Maximum continuous output nower	240 VA	290 VA
recuting the continuous output current frequency range diffequency range to ficultifault current over 3 cycles munits per 20 A (L-L) branch circuit? tage class AC port backlead current actor setting actor setting actor setting actor setting the current actor setting from the current actor setting actor setting actor setting actor setting from the current actor setting actor setting actor setting actor setting actor setting from the current actor (adjustable) actor (adjustable) for type ((Q7-60-8-US & (Q7PLUS-72-8-US)) for type ((Q7-60-8-US & (Q7PLUS-72-8-US)) for type ((Q7-60-8-US & (Q7PLUS-72-8-US)) actor type ((Q7-60-8-US & (Q7PLUS-72-8-US)) for type ((Q7-60-8-US & (Q7PLUS-8-US)) for type ((Q7-60-8-US))	Meximum communes corpur power		
In continuous output current If requency If frequency If frequency If frequency If frequency If frequency If frequency In units per 20 A (I-L) branch circuit Itage class AC port Backfeed current Backfeed current Backfeed current Backfeed current Itage class AC port	NOTHING! (E-L) VOICESCHINGS		
I frequency range cd frequency range and integrated frequency range are or circuit fault current over 3 cycles are units per 20 A (L-L) branch circuit actor setting actor setting actor setting actor setting actor setting actor fadjustable) ENCY EC éfficiency actor range actor fadjustable) ENCY EC éfficiency actor range actor fadjustable actor fadjustable) ENCY EC éfficiency actor range actor fadjustable actor fadjustable actor fadjustable actor fadjustable actor fadjustable actor fadjustable actor wet locations and degree in mication ing ing ance	Maximum continuous output current	<u>></u>	(240 V)
to frequency range t circuit fault current over 3 cycles trange class AC port hackfeed current actor setting actor setting actor setting actor setting actor setting ENCY ENCY ENCY ENCY EC efficiency ANICAL DATA t temperature range thumidity range for type (IQ7-60-2-US & IQ7PLUS-72-2-US) tor type (IQ7-60-8-US & IQ7PLUS-72-8-US) tor type (IQ7-60-8-US & IQ7PLUS-72-8-US) inneantal category / UV exposure rating metal category / UV exposure rating necting means ance	Nominal frequency	60 Hz	2H 09
t circuit fault current over 3 cycles Im units per 20 A (L-L) branch circuit lage class AC port backfeed current actor setting actor (adjustable) ENCY EC efficiency variette officiency variette variet	Extended frequency range	47 - 68 Hz	47 - 68 Hz
run units per 20 A (L-L) branch circuit? tage class AC port backfeed current actor setting actor setting actor setting actor setting ENCY EG efficiency regined efficiency witcAL DATA Intendent range rundiny range rundiny range rundiny range for type (IQ7-60-8-US & IQ7PLUS-72-8-US) for type (IQ7-60-8-US & IQ7PLUS-72-8-US) for type (IQ7-60-8-US & IQ7PLUS-72-8-US) rundernal category / UV exposure rating micration ing necting means ance	AC short circuit fault current over 3 cycles	5.8 Arms	
tage class AC port backfeed current actor setting actor setting actor setting actor setting actor setting tency EG efficiency righted officiency NUCAL DATA tremperature range for wet locations or type (IQ7-60-8-US & IQ7PLUS-72-8-US) for type (IQ7-60-8-US & IQ7PLUS-72-8-US) and degree in remtal category / UV exposure rating RES infoation ing hecting means	Maximum units per 20 A (L-L) branch circuit ³		(240 VAC)
backfeed current actor setting actor setting factor setting factor (adjustable) ENCY ENCY ESC efficiency subtred efficiency subtred efficiency remperature range runidity range intrype (IQ7-60-8-US & IQ7PLUS-72-8-US) for type (IQ7-60-8-US & IQ7PLUS-72-8-US) for type (IQ7-60-8-US & IQ7PLUS-72-8-US) in degree in mental category / UV exposure rating in mental category / UV exposure rating in mental category / IQ exposure rating in mental category / IQ exposure rating in mental category / IQ exposure rating in acting means	Overvoltage class AC port	≡	=
actor setting actor (adjustable) E. ENCY E. E efficiency E. E efficiency F. E efficiency Indicated efficiency ANICAL DATA Temperature range From perature range From per	AC port backfeed current	0 A	0 A
encor (adjustable) ENCY EG efficiency aginted efficiency temperature range trumperature range trumpe	Power factor setting	1.0	
EC efficiency sughted efficiency variet bath variet category / UV exposure rating variet v	Power factor (adjustable)	0.71	0.7
EC efficiency supplied officiency NUICAL DATA NUICAL DATA I temperature range thundidy range thundidy range for type (IQ7-60-8-US & IQ7PLUS-72-8-US) for type	EFFICIENCY		
tremperature range themperature range humidity range for type (IQ7-60-8-US R(Q7PLUS-72-2-US) for type (IQ7-60-8-US R(Q7PLUS-72-8-US) for wet locations on degree or mental category / UV exposure rating mication ing necting means	Peak CEC efficiency		
tremperature range tremperature range thumidity range for type (IQ7-60-8-US 8 IQ7PLUS-72-2-US) for type (IQ7-60-8-US 8 IQ7PLUS-72-8-US) for type (IQ7-60-8-US 8 IQ7PLUS-72-8-US) for wet locations on degree tre mental category / UV exposure rating mication ing necting means	CEC weighted efficiency		
t temperature range thumidity range for type (IQ7-60-8-US & IQ7PLUS-72-8-US) for type (IQ7-60-8-US & IQ7PLUS-72-8-US) for type (IQ7-60-8-US & IQ7PLUS-72-8-US) for wet locations in degree inter inter initiation			er i entre de la proposició de la constante de
humidity range for type (IQ7-60-2-US & IQ7PLUS-72-3-US) for type (IQ7-60-3-US & IQ7PLUS-72-8-US) for type (IQ7-60-8-US & IQ7PLUS-72-8-US) and egree in mental category / UV exposure rating RES infeation ing hecting means		-40°C to +65°C	
tor type ((Q7-60-2-US & (Q7PLUS-72-2-US)) for type ((Q7-60-B-US & (Q7PLUS-72-B-US)) and for wet locations or degree inemital category / UV exposure rating RES inication ing hecting means	Relative humidity range	4% to 100% (condensing)	
ions (WXHXD) do for wet locations n degree mental category / UV exposure rating RES mication ing necting means	Connector type (107-60-2-US & 107PLUS-72-2-US)		additional Q-DCC-5 adapter)
ions (WXHXD) ed for wet locations n degree mental category / UV exposure rating RES infoation ing necting means	Connector type (IQ7-60-B-US & IQ7PLUS-72-B-US)). UTX connectors:
ed for wet locations on degree in mental category / UV exposure rating mental category / UV exposure rating in mication in ance	W. T. T. T.	212 mm × 175 mm x 30 2 mm (wi	thout bracket)
ad for wet locations in degree in mental category / UV exposure rating RES infeation ing hecting means ance	DIMETISIONS (WATAL)	1.08 kg (2.38 lbs)	
	Weight	Natural convection - No fans	
	Approved for wet locations	Yes	
	Pollution degree	PD3	
	Foclosine	Class II double-insulated, corrosi	on resistant polymeric enclosure
	Environmental category / UV exposure rating	NEMA Type 6 / outdoor	
Supar	FEATURES		
ng means	Communication	Power Line Communication (PLC	
ng means	Monitoring	Enlighten Manager and MyEnligh	ten manitaring aptions of an Enghase IO Envoy.
	Disconnecting means	The AC and DC connectors have	been evaluated and approved by UL for use as the load-break
	0	disconnect required by NEC 690	
	Compliance	CA Rule 27 (UT 1741-SA) UL 62109-1, UL1241/IEEE1542, FC CAN/CSA-C.72 2 NO. 1071-01 This product is UL Listed as FV P NEC-2017 section 690.12 and C2 and DC conductors, whos install	CC Part 15 Class B, ICES-0003 Class B, dapid Shut Down Equipment and conforms with NEC-2014 and 2.1-2015 Ratio 64-218 Rapid Shutdown of PV Systems, for AC ed according manufacturer's instructions.

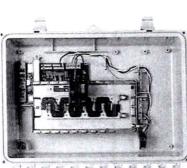
^{1.} No enforced DC/AC ratio. See the compatibility calculator at https://enghaze.com/cerus/support/medule_compatibility.
2. Normal veltage range can be extended beyond nominal at required by the utility.
3. Limits may vary Reter to local requirements to define the number of microinverters per branch in your area.

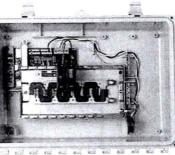


To learn more about Enphase offerings, visit enphase.com

1Q Combiner 3 (X-IQ-AM1-240-3) Enphase

providing a consistent, pre-wired solution for The Enphase IQ Combiner 3 " with Emphase streamlines PV and storage installations by residential applications. It offers up to four 2-pole input circuits and Eaton BR series 10 Envoy® consolidates interconnection equipment into a single enclosure and busbar assernbly







LISTEDTo learn more about Enphase offerings, visit enphase com

Smart

- · Includes IQ Envoy for communication
- Optional AC receptable available for PLC Flexible networking supports Wi-Fi, Ethernet, or cellular
- Provides production metering and optional consumption monitoring

Simple

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

Reliable

- Durable NRTI-certified NEMA type
 Renclosure
 Five-year warranty
 UL histed



Enphase 1Q Combiner 3

MUDEL NUMBER	PV and because the final and the second of the state of the state of the second state pv
IQ Combiner 3 X-10-AM 1-240-3	production metering (ANSECT2.29 +1-0.53) and optional consumption mornioring (*n. 2.5%)
ACCESSORIES and REPLACEMENT PARTS (aut included, order separately)	included, order separately)
Emphase Mobile Connect" CELLMODEM-03 (46. 1-2-year data plan) CELLMODEM-01 (36. / 5-year data plan) CELLMODEM-M (46 based LTE-M / 5-year data plan)	Play and play industrial grade cellular modern with data plan for systems up to 60 microrivecties. Available in the 40s, Canada, Alexico, Fuerto Rico, and the US Virgin Islands, where there is abequate cellular service in the undallation area.
Consumption Manitaring* CT CT-200-SPLIT	Split core current transformers enable whole home consumption metering (1 t - 2.5%)
Circur Boresers BRK-10A-2-240 BRK-13A-2-240 BRC-3P-240	Supports Eaton BR210, BR215, BR220, BR230, BR240, BR250, and BR260 circuit breakers Circuit breaker, 2 pole, 104, Eaton BR216 Circuit breaker, 2 pole, 154, Eaton BR216 Circuit breaker, 2 pole, 204, Eaton BR220
20-21-21-21-21-21-21-21-21-21-21-21-21-21-	Power line carrier (communication bridge pair), quantity 2
E-LC-D1 XA-PLUG-120-3	Accessory receptacle for Power Line Carrier in 1Q Combiner 3 (required for EPLC-01)
XA-ENV-PCBA-3	Replacement IQ Favor parated circuit board (PCB) for Combiner 3
ELECTRICAL SPECIFICATIONS	
Rating	Continuous duty
System voltage	120/240 VAG, 60 Hz
Eaton BR series busbar rating	125.A
Max continuous current rating (output to grid)	65 A
Max fuse/circult rating (output)	V 06
Branch circuits (solar and/or storage)	Up to four 2-pole Eaton BR series Distributed Generation (DG) breakers only (not included)
Max continuous current rating (Input from PV)	64 A
Max total branch circuit breaker rating (hiput)	80A of distributed generation / 90A with IQ Envoy breaker included
Production Metering CT	200 A solid core pre-installed and wired to IQ Envoy
MECHANICAL DATA	acetra f
Dimensions (WxHxD)	49.5 x 37 5 x 16 8 cm (19 5" x 14 75" x 6.63"). Helgnt is 21 06 (5.5.5 cm with incoming process).
Weight	7.5 kg (16.5 lbs)
Ambient temperature range	-40° C to +46° C f-40° to 115° F)
Cooling	Natural convection, plus heat shield
Enclosure environmental rating	Outdoor, NRTL-certified, NEMA type 3R, polycarbonate construction
Wire sizes	2.2 A go 50. A broader ingest, at the AMIC supper continuous. 6.0.3 Decisione for annual region of the AMIC supper continuous. 6.0.3 Decisione for annual region of the 2.0 AMIC coupper continuous. Figure has go continue frontigor. We be 2.0 AMIC coupper continuous. Neuroni and goning 2.4 De De Googne continuous. Alexant inflow for all conte requirements for continuous annual continuous.
Altitude	To 2000 meters (6,560 (cot)
INTERNET CONNECTION OF HONS	
Integrated Wi-Fi	802 11b/g/n
Ethernet	Optional, 802.3, CatSE (or Cat 6) UTP Ethernet cable (not included)
Cellular	Optional, CELLMODEM-01 (3G) or CELLMODEM-03 (4s) or CELLMODEM-01 (4s) inscreed (not inside 4s)
COMPLIANCE	

Ethornol	Optional, 802.3, CatSE (or Cat 6) UTP Ethernet cable (not included)
Luight	Challental CELLMODEM-01 (3G) or CELLMODEM-03 (4G) or CELLMODEM
Cellular	(paprilia total
COMPLIANCE	
Compliance, Combiner	UL 1741 CANICSA C22.2 No 107.1 47 CFR, Pert 15, Chave 8 ICES 083 Production methenia ANSI C12.20 accuracy class 0.5 (PV production)
Compliance, IQ Envoy	UL 60601-1/CANCSA 22 2 No 61010-1

To learn more about Enphase offerings, visit **enphase.com** 30 EB3, see s. 7 Hr. np. e exist All 133 - 150 - 153 - 2053 - 20 228 - 238 - 238 - 24 · Consumption monitornig is required for Enphase Storage Systems

ENPHASE

ROCK-IT SYSTEM 3.0

Designed with the installer in mind.

cost-effective. EcoFasten offers a wide variety of standard products as well as custom solutions, for a one-stop source for all of your rooftop anchoring needs. Products are rigorously tested and approved above and beyond industry standards in-house and by third party agencies. EcoFasten's patented conical scaling system has been in service in the snow guard and solar industries for over two decades. EcoFasten Solar specializes in solar roof attachments that are fast and easy to install, straightforward, secure and

Features

- New and improved design
 - Fastest, easiest to level system on the market
 - Integrated electrical bonding
 - SIMPLE- only 4 components
- North-South adjustability Only one tool required (1/2" deep wellsocket)
 - Vertical adjustment of 3"-4"

System components* - Required















ROCK-IT 3.0 MOUNT

ROCK-IT SUIDE 4" OF 8"

System components* - Optional



HYBRID MOUNT (REFER TO PG, 5)

ROCK-IT 3.0











8,151,522 8,153,700 8,181,398 8,166,713 8,146,299 8,209,914 8,245,454 8,272,174 8,225,557 9,010,038 9,134,040 9,175,478 8,212,833

EcoFasteri Solar products are protected by the following U.S. Paterils:

EcoFasten

Solar

877-859-3947

info@ecofastensolar.com

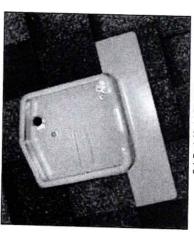
www.ecofastensolar.com

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Sola Deck

Basic Features

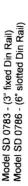
- Stamped Seamless Construction
 - 18 Gauge Galvanized Steel Powder Coated Surfaces
- Flashes into the roof deck
- 3 Roof deck knockouts .5", .75", 1"
 - 5 Centering dimples for entry/exit fittings or conduit
 - 2 Position Ground lug installed
 - Mounting Hardware Included



SolaDeck Model SD 0783

SolaDeck UL50 Type 3R Enclosures

Available Models:



SolaDeck UL 1741 Combiner/Enclosures

Models SD 0783-41 and SD 0786-41 are labeled and ETL listed UL STD 1741 according to the UL STD 1741 for photovoltaic combiner enclosures.

Max Rated - 600VDC, 120AMPS

Model SD 0783-41 3" Fixed Din Rail fastened using Norlock System

**Typical System Configuration

4- Din Rail Mounted Fuse Holders 600VDC 30 AMP

1- Power Distribution Block 600VDC 175AMP 1- Bus Bar with UL (ug

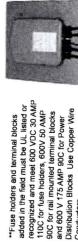
Model SD 0786-41 6" Slotted Din Rail fastened using steel studs

**Typical System Configuration

4- Din Rail Mounted Fuse Holders 600VDC 30 AMP

4- Din Rail Mounted Terminal Blocks

Bus Bars with UL lug



Cover is trimmed to allow conduit or fittings, base is center dimpled for fitting



Conductors

Din Rail mounted fuse holders, bus bar and power distribution block Model SD 0783-41, wired with



Din Rail mounted fuse holders, terminal blocks and bus bars. Model SD 0786-41, wired with

RSTC Enterprises, Inc • 2219 Heimstead Road • Eau Cliare, WI 54703 For product information call 1(866) 367-7782

Enphase Enpower

The Enphase Enpower" smart switch connects the home to grid power, the Encharge storage system, and solar PV. It provides microgrid interconnection device (MID) functionality by automatically detecting and seamlessly transitioning the home energy system from grid power to backup power in the event of a grid failure. It consolidates interconnection equipment into a single enclosure and streamlines grid independent capabilities of PV and storage installations by providing a consistent, pre-wired solution for residential applications

Reliable

- · Durable NEMA type 3R enclosure
 - Ten-year limited warranty

Smart

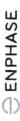
ENPHASE

- · Controls safe connectivity to the grid
 - Automatically detects grid outages
- · Provides seamless transition to backup

Simple

- Connects to the load or service equipment' side of the main load panel
 - Centered mounting brackets support single stud mounting
- Supports conduit entry from the bottom, bottom left side, and bottom right side
 - Supports whole home and partial home backup and subpanel backup
- · Up to 200A main breaker support
- Includes neutral-forming transformer for split phase 120/240V backup operation





Encharge 10 Enphase

storage system is reliable, smart, simple, and safe. It is comprised of three base Encharge 3" storage units, has power rating. It provides backup capability and installers a total usable energy capacity of 10 08 kWh and twelve embedded grid-forming microinverters with 3.84 kW can quickly design the right system size to meet the The Enphase Encharge 10" all-in-one AC-coupled needs of both new and retrofit solar customers

Reliable

- Proven high reliability IQ Series Microinverters
 - Ten-year limited warranty
- Three independent Encharge storage base units
 - Twelve embedded IQ 8X-BAT Microinverters

BINDHASE -

Passive cooling (no moving parts/fans)

Smart

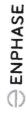
- · Grid-forming capability for backup operation
 - · Remote software and firmware upgrade
 - Mobile app-based monitoring and control
 - · Support for self consumption
- Utility time of use (TOU) optimization

Simple

- Fully integrated AC battery system
- · Quick and easy plug-and-play installation
- Interconnects with standard household AC wiring

Safe

- Cells safety tested
- Lithium iron phosphate (LFP) chemistry for maximum safety and longevity



Enphase Encharge 10

ACCESSORIES ENCHARGE-HWDL-R1 OUTPUT (AC) Rated (continuous) output power	Encharge 10 battery storage system with integrated Enphase Microinverters and hotter
ACCESSORIES ENCHARGE-HNDL-R1 OUTPUT (AC) Rated (continuous) output power	management unit (BMU), Includes: Three Encharge 3.36 kWh base units (803-A01-US00-1-3) One Encharge 10 cover kit with cover, wall mounting bracket, watertight conduit hubs.
ENCHARGE-HNDL-R1 OUTPUT (AC) Rated (continuous) output power	mer commercratification witing between batteries (B10-C-1050-0)
OUTPUT (AC) Rated (continuous) output power	One set of Enchance have met
Rated (continuous) output power	Control of the cost of the cos
DANCE TO SECURITION OF THE PROPERTY OF THE PRO	@ 248 VAC
Peak output pourse	3 84 kVA
any on bower	57 kVA (10 seconds)
Nominal voltage / range	240 / 211 - 264 VAC
Nominal frequency / range	60 / 57 – 61 Hz
Rated output current	16.4
Peak output current	24 64 (10 0000000000000000000000000000000000
Power factor (adjustable)	O SE localina Control and Cont
Maximum units per 20 A branch circuit	C.O. leading U.B. lagging
Interconnection	Luff (single phase)
Maximum AC short circuit fault current over 3 and a	
Round trip officiency*	Cles 69.6 Arms
BATTERY	
Fotal capacity	10 S. Listi.
Usable capacity	10 OB LIMIT
Round trip efficiency	O C C KWII
Nominal DC voltage	%06
Maximum DC voltage	0.2 V
Ambient operating temperature race	/3.5 V
Optimum operating famous control	-15° C to 55° C (5° F to 131° F) non-condensing
Chemistry	0° C to 30° C (32° F to 86° F)
MECHANICAL DATA	Lithium iron phosphate (LFP)
Dimensions (WxHxD)	
Weight	1070 mm x 664 mm x 319 mm (42.13 in x 26.14 in x 12.56 in)
	Three individual 44.2 kg (97.4 lbs) base units plus 21.1 kg (48.7 lbs) cover and mounting
Enclosure	bracket, total 154.7 kg (341 lbs)
1Q 8X-BAT microinverter enclosure	Outdoor - NEMA type 3R
Cooling	NEMA type 6
Alitide	Natural convection - No fans
	Up to 2500 meters (8200 feet)
WOUNTED TO SEE STATE OF THE SECOND SE	Wall mount
PEATURES AND COMPLIANCE	
Compatibility	Compatible with grid-tied PV systems. Compatible with Feebass Most Fances
Communication	Micros, Enphase Enpower, and Enphase IQ Envoy for backup operation.
Services	Wireless 2 4 GHz
Monitoring	Backup, self-consumption, TOU, Demand Charge, NEM Integrity
Compliance	Enlighten Manager and MyEnlighten monitoring options: API integration
	UL 9540, UN 38.3, UL 9540A, UL 1998, UL 991, NEMA Type 3R, AC156 EMI: 47 CFR, Part 15, Class B, ICES 003
	Cell Module: UL 1973, UN 38.3 Inverters: UL 62109-1, IFC 62109-2, III 1744-20, 000,000
LIMITED WARRANTY	7,120 CE103 2, OE 1/415A, CAN/CSA C22.2 No. 107.1-16, and IEEE 1547
Limited Warranty ^a	>70% PERO OF \$1 112 4-40.
Supported in backundelf and conserved	of the state of th

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Eaton general duty cartridge fuse safety switch

DG222NRB

UPC:782113144221

Dimensions:

Height: 14.38 IN

Length: 14.8 IN

Width: 9.7 IN

Weight: 10 LB

element fuses are used. 3-Phase hp rating shown is Notes:Maximum hp ratings apply only when dual a grounded B phase rating, UL listed.

Warranties:

eighteen (18) months from the date of shipment Eaton Selling Policy 25-000, one (1) year from the date of installation of the Product or of the Product, whichever occurs first.

Specifications:

Type: General duty, cartridge fused

Amperage Rating: 60A

Enclosure: NEMA 3R

 Enclosure Material: Painted galvanized steel Fuse Class Provision: Class H fuses

· Fuse Configuration: Fusible with neutral

Number Of Poles: Two-pole

Number Of Wires: Three-wire

· Product Category: General duty safety switch

Voltage Rating: 240V

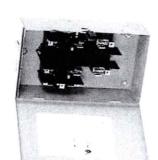
Supporting documents:

Eatons Volume 2-Commercial Distribution

Eaton Specification Sheet - DG222NRB

Certifications:

UL Listed





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