South River Electric Membership Corporation

A Touchstone Energy® Cooperative

Renewable Generator Interconnection Request Up to 50 kw
(Application Form)

Service Provider: South River Electric Membership Corporation

Service Provider Contact Person: Catherine O'Dell

Telephone Number: 910-230-2982

Fax Number: 910-230-2995

E-Mail Address: codell@sremc.com

Address: P.O.Box 931, Dunn, NC 28335 (17494 NC Hwy 421 South)

An interconnection request is considered complete when it provides all applicable and correct information required below. Documentation of site control must be submitted with the interconnection request.

Interconnection Customer Information:

Legal name of the interconnection customer (Or, if an individual, individual's name)

Company: _____

Contact Person: Harold Brunson

Mailing Address: 582 McNeil Hobbs Rd

City: Bunnlevel State: NC Zip: 28323

Facility Location (If different from above): Same as above

Telephone Number: 910-890-6749 Cellular Number: _____

Fax Number: _____ E-Mail Address: louisebrunson@yahoo.com

Alternative Contact Information (If different from the interconnection customer)

Contact Name: _____

Title: _____

Address: _____

_____

Telephone Number: _____ Cellular Number: _____

Fax Number: _____ E-Mail Address: solar@powerhome.com

Application is for: X_____ New renewable generating facility
_____ Capacity addition to existing renewable generator facility

If capacity addition to existing facility, please describe: _____

_____

Will the renewable generating facility be used for any of the following?

Net metering? **Yes _X**____ No _____
To supply power to the interconnection customer? **Yes _X**____ No _____
To supply power to others? Yes _____ **No __X___ (excess to SREMC)**

Requested point of interconnection: 10/18/19 South River EMC meter

Interconnection customer's requested in-service date: 11/4/18

For installations at locations with existing electric service where the proposed renewable generating facility will interconnect, provide:

South River Electric Membership Corporation (Electric Service Provider)

300084000003 (Existing Account Number(s)

(*Please provide contact information for existing owner(s) of each account number. If multiple account numbers, please use space provided on last page of this Interconnection Request*)

Contact Name: Eric Kappaz

Title: Interconnection Specialist

Address: 919 N. Main St. Mooresville NC, 28115

_____

Telephone Number: 843-277-6960 Cellular Number: _____

Fax Number: _____

E-Mail Address: solar@powerhome.com

Renewable Generating Facility Information:

Location (if different from above): ____Same as above_____

Cooperative: ____South River EMC_____

Account Number: 300084000003

Inverter Manufacturer: ___Solar Edge Technologies_____ Model 10000H-US

Is the equipment UL 1741 Listed? ×Yes ❑No
If Yes, attach manufacturer's cut-sheet/specifications showing UL 1741 listing for model.

Nameplate Rating: 10.0 (kW) _____ (kVA) ___240_____ (AC Volts)

Single Phase __X___ Three Phase _____

System Design Capacity: 9.6 (kW) ___ (kVA)

Prime Mover:

× **Photovoltaic** ❑ Reciprocating Engine ❑ Fuel Cell ❑ Micro Turbine ❑ Other

Energy Source: × **Solar** ❑Wind ❑Hydro ❑ Diesel ❑ Natural Gas ❑ Fuel Oil

❑ Other (describe) _____

Is the equipment identified and listed as "Utility Interactive" when operated in conjunction with a voltage inverter that is UL 1741 Listed? ×Yes ❑ No

Estimated Installation Date: 10/18/19 Estimated In-Service Date: 11/4/19

The 50 kw Inverter Process is available only for inverter-based Generating Facilities no larger than 50 kw that meet the codes, standards, and certification requirements of Attachments 3 and 4 of the North Carolina Interconnection Procedures, or the Cooperative has reviewed the design or tested the proposed Generating Facility and is satisfied that it is safe to operate.

List components of the Generating Facility equipment package that are currently certified:

	Equipment Type	Certifying Entity
1. _	Silfab _ ____	ULC ORD C1703,UL1703, IEC 61215, IEC 61730, IEC 61701,CEC Listed
2. _____	_____	
3. __		

4. _____ _____

5. _____ _____

6. _____ _____

Interconnection Member Signature

I hereby certify that, to the best of my knowledge, the information provided in this Interconnection Request is true. I agree to abide by the Terms and Conditions for Interconnecting a Certified Inverter-Based Generating Facility No Larger than 50 kw and return the Certificate of Completion when the Generating Facility has been installed.

Signed: Harold Brunson

Title: ___Homeowner _____ Date: 10/4/19

……

Contingent Approval to Interconnect the Generating Facility (For Cooperative use only)

Interconnection of the Generating Facility is approved contingent upon the Terms and Conditions for Interconnecting a Certified Inverter-Based Generating Facility No Larger than 50 kw and return of the Certificate of Completion.

Cooperative Representative Signature: _____

Title: _____ Date: _____

Interconnection Request ID number: _____

Cooperative waives inspection/witness test? ❑Yes ❑No

DOCKET NO. SP 19393, **SUB** 0

Filing Fee Tendered $ 50.00

Report of Proposed Construction (RPC) – Commission Rule R8-65

Pursuant to G.S. 62-110.1(g), any person who seeks to construct an electric generating facility in North Carolina, and is exempt from the requirement to obtain a certificate of public convenience and necessity, is required to file this form and a notice of completion of the construction of the facility. This form may be accompanied by any exhibits or additional responses incorporated by reference thereto and attached to this form. This form must be accompanied by the required filing fee of $50.00.

This form may be electronically filed. Please see www.ncuc.net for instructions.

If this form is filed by hard copy, the original plus 6 copies must be presented at or transmitted to the office of the Chief Clerk. Regardless of the method of delivery, this form is not deemed filed until it is received by the Chief Clerk, along with the required filing fee.

The mailing address is:

Chief Clerk
NC Utilities Commission
4325 Mail Service Center
Raleigh, NC 27699-4325

Exhibits required by Rule R8-65(g)		**Applicant's Response**
(1)(i)	Full and correct name of the owner of the facility	Harold Brunson
	Facility name	
	Business address	582 Mcneil Hobbs Rd. Bunnlevel, NC, 28323
	E-mail address	louisebrunson@yahoo.com
	Telephone number	(910) 890-6749
(ii)	The owner is (check one)	☑ Individual ☐ Partnership ☐ Corporation
	If a partnership, the name and business address of each general partner	
	If a corporation, the state and date of incorporation	
	If a partnership, the name and address of each general partner (add additional sheets if necessary)	

	Owner's agent for purposes of this report, if applicable:	Eric Kappaz
	Agent's business address	919 N. Main St. Mooresville, NC, 28115
	Agent's e-mail address	solar@powerhome.com
	Agent's telephone number	(843) 277-6960
(iii)	The full and correct name of the site owner and, if the site owner is other than the applicant, the applicant's legal interest in the site	Harold Brunson
(2)(i)	Attach a color map or aerial photo showing the location of the generating facility site in relation to local highways, streets, rivers, streams, and other generally known local landmarks with the proposed location of major equipment indicated on the map or photo, including: the generator, fuel handling equipment, plant distribution system, startup equipment, the site boundary, planned and existing pipelines, planned and existing roads, planned and existing water supplies, and planned and existing electric facilities;. A U.S. Geological Survey map or an aerial photo map prepared via the State's geographic information system (found at www.gis.ncdcr.gov/hpoweb/) is preferred.	
(ii)	E911 street address of the proposed facility	582 Mcneil Hobbs Rd. Bunnlevel, NC, 28323
	County in which the proposed facility will be physically located	Harnett
	GPS coordinates of the approximate center of the proposed facility site to the nearest second or one thousandth of a degree	Lat: 35.351279 Long: -78.837908
(3)(i)	The nature of the facility, including its technology, and the source of its power and fuel(s)	This ROPC is for a 9.6 kw-DC Solar Photovoltaic array, ground-mounted and grid-tied. The source facility power is solar energy
(ii)	A description of the buildings, structures and equipment comprising the generating facility and the manner of its operation	The system will be a ground-mounted solar PV array at the above mentioned address. The system will be grid-tied and does not have a battery back-up.
(iii)	The gross and net projected maximum dependable capacity of the facility in megawatts – Alternating Current	System losses include DC to AC conversion, wiring and other factors. Due to intermittent solar availability, the maximum dependable capacity is 0 megawatts.

	The facility's nameplate capacity in megawatts – Alternating Current	
(iv)	The projected date on which the facility will come on line	11/03/2019
(v)	The applicant's general plan for sale of the electricity to be generated, including the name of utility to which the applicant plans to sell the electricity	The applicant plans on Net Metering under the South River EMC net meter rider. South River EMC will retain any excess Renewable Energy Credit.
(vi)	Any provisions for wheeling of the electricity, if applicable	
(vii)	Arrangements for firm, non-firm, or emergency generation, if applicable	
(viii)	The service life of the project	The projected lifetime of the equipment is 25 years.
(ix)	The projected annual sales in kilowatt-hours	Annual production credit is expected to be 0 KWh/yr.
(x)	Whether the applicant intends to produce renewable energy certificates that are eligible for compliance with the State's renewable energy and energy efficiency portfolio standard ☐ Yes ☑ No	
(4)	The expected cost of the proposed facility	$ 49,350.00

Confidentiality

If an applicant considers certain of the required information above to be confidential and entitled to protection from public disclosure, it may designate said information as confidential and file it under seal. Documents marked as confidential will be treated pursuant to applicable Commission rules, procedures, and orders dealing with filings made under seal and with nondisclosure agreements.

All reports shall be signed and verified (notarized) by the applicant or by an individual duly authorized to act on behalf of the applicant for the purpose of the report. A blank verification page is attached below:

VERIFICATION

STATE OF North Carolina COUNTY OF Iredell

Debra Kiser — Interconnection Coordinator

Signature of Owner's Representative or Agent — Title of Representative or Agent

Debra Kiser

Typed or Printed Name of Representative or Agent

The above named person personally appeared before me this day and, being first duly sworn, says that the facts stated in the foregoing report and any exhibits, documents, and statements thereto attached are true as he or she believes.

WITNESS my hand and notarial seal, this 4th day of Oct., 2019.

My Commission Expires: 9/19/22

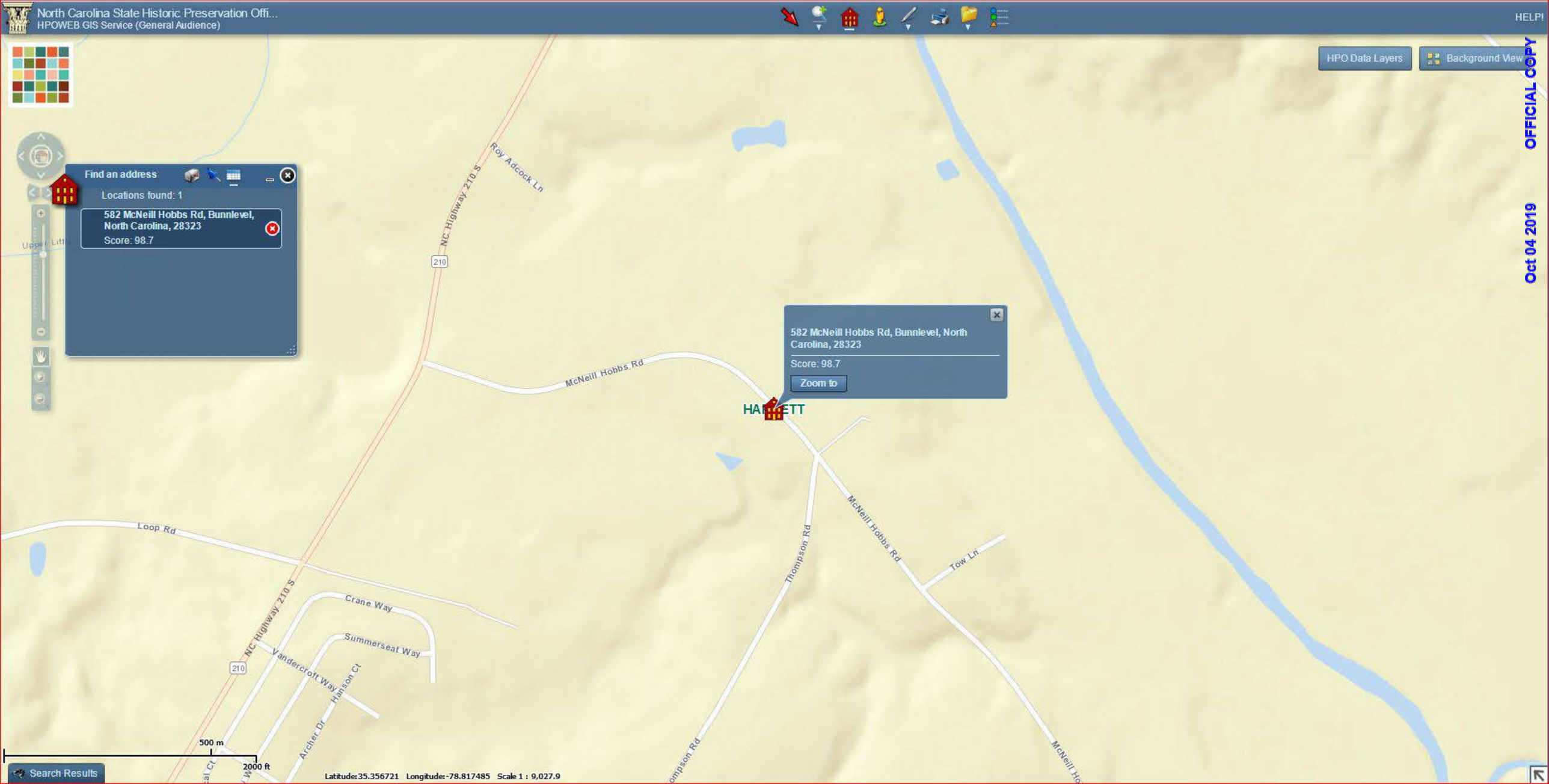
Signature of Notary Public

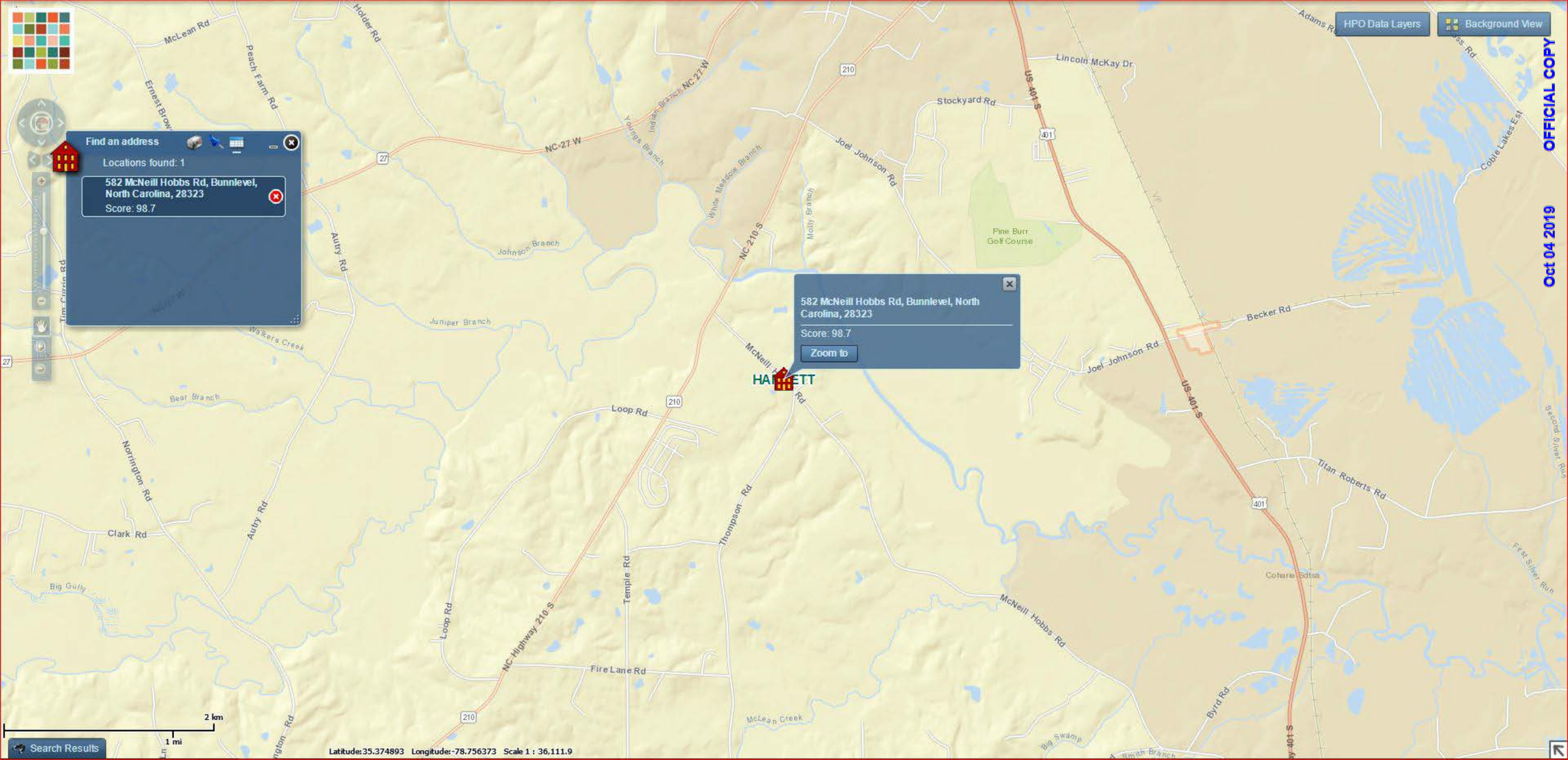
LaShawna Williams

Name of Notary Public – Typed or Printed

LROCHELLE WILLIAMS
Notary Public
Cabarrus
County
My Comm. Exp.
09-19-2022
NORTH CAROLINA

This original verification must be affixed to the original report, and a copy of this verification must be affixed to each of the copies that are also submitted to the Commission.


North Carolina State Historic Preservation Offi...
HPOWEB GIS Service (General Audience)
HELP!
HPO Data Layers
Background View
OFFICIAL COPY
Oct 04 2019
Find an address
Locations found: 1
582 McNeill Hobbs Rd, Bunnlevel, North Carolina, 28323
Score: 98.7
582 McNeill Hobbs Rd, Bunnlevel, North Carolina, 28323
Score: 98.7
Zoom to
Roy Adcock Ln
NC Highway 210 S
McNeill Hobbs Rd
Loop Rd
Crane Way
Summerseat Way
Vandercroft Way
Hanson Ct
Archer Dr
Thompson Rd
Tow Ln
500 m
2000 ft
Search Results
Latitude: 35.356721 Longitude: -78.817485 Scale 1 : 9,027.9


HPO Data Layers
Background View
OFFICIAL COPY
Oct 04 2019
Find an address
Locations found: 1
582 McNeill Hobbs Rd, Bunnlevel, North Carolina, 28323
Score: 98.7
582 McNeill Hobbs Rd, Bunnlevel, North Carolina, 28323
Score: 98.7
Zoom to
HARNETT
McLean Rd
Peach Farm Rd
Holder Rd
Ernest Brown Rd
NC-27 W
Indian Branch
Youngs Branch
White Meadow Branch
Molly Branch
Johnson Branch
Juniper Branch
Walkers Creek
Bear Branch
Autry Rd
Tim Currin Rd
Norrington Rd
Clark Rd
Big Gully
NC-210 S
Loop Rd
Temple Rd
Thompson Rd
NC Highway 210 S
Fire Lane Rd
McLean Creek
Big Swamp
Stockyard Rd
Joel Johnson Rd
Lincoln McKay Dr
US-401 S
Pine Burr Golf Course
Becker Rd
Titan Roberts Rd
McNeill Hobbs Rd
Byrd Rd
Coharie Sdtsa
Second Silver Run
First Silver Run
Adams Rd
Coble Lakes Est
210
27
401
2 km
1 mi
Search Results
Latitude: 35.374893 Longitude: -78.756373 Scale 1 : 36,111.9

HP 5178743 47 COINSURANCE CONTRACT

NORTH CAROLINA FARM BUREAU MUTUAL INSURANCE COMPANY PART B DECLARATION PAGE
P.O. BOX 27427 RALEIGH, NORTH CAROLINA 27611-7427 HOMEOWNERS POLICY

CORRECTED RENEWAL DECLARATION - COVERAGE WILL EXPIRE ON 03/10/19 IF PREMIUM IS NOT PAID.

REASON FOR AMENDMENT SEE DETAILED CHANGES

POLICY NUMBER	POLICY PERIOD FROM	TO	MEMBERSHIP NO		AGENT CODE
HP 5178743	03/10/19	03/10/20	0480676	HO DECL 0913	0435555

NAMED INSURED AND ADDRESS

HAROLD L BRUNSON
LOUISE F BRUNSON
582 MCNEILL HOBBS RD
BUNNLEVEL, NC 28323-8986

AGENT

JUSTIN RAY
TELE: (910) 893-8311
PO BOX 369
LILLINGTON, NC 27546

TOTAL ANNUAL PREMIUM - - - - - - - - - - - - - - - $1,267

THE PREMISES COVERED BY THIS POLICY IS LOCATED
582 MCNEILL HOBBS RD BUNNLEVEL NC 28323 HARNETT CNTY.

RATING INFORMATION- AUTOMATIC VALUE-UP AT RENEWAL, FRAME, CONSTRUCTED IN 1935, PRIMARY RESIDENCE, FIRE PROTECTION - SUMMERVILLE BUNNLEVEL FD, PROTECTION CLASS 5, ANNUAL INCREASE IN SECTION I COVERAGES IS 4.0%, TERRITORY 250, HYDRANT WITHIN 1000 FEET, $ 500 SECTION I ALL OTHER PERILS LOSS DEDUCTIBLE, $1000 SECTION I WINDSTORM OR HAIL LOSS DEDUCTIBLE 1 FAMILY. LAST REWRITE 03/18.

COVERAGE AT THE ABOVE DESCRIBED LOCATION IS PROVIDED ONLY WHERE A LIMIT OF LIABILITY IS SHOWN OR A PREMIUM IS STATED

SECTION I COVERAGE	LIMIT OF LIABILITY	PREMIUMS
A. DWELLING	$206,000	$942
B. OTHER STRUCTURES	$20,600	
C. PERSONAL PROPERTY	$144,200	$62
D. LOSS OF USE	$41,200	
SECTION II COVERAGE		
E. PERSONAL LIABILITY	$300,000 EACH OCCURRENCE	
F. MEDICAL PAY. TO OTHERS -	$1,000 EACH PERSON	$8
BASIC PREMIUM - - - - - - - - - - - - - - - -		$1,012

ADDITIONAL PREMIUMS

PROJECT DESCRIPTION:

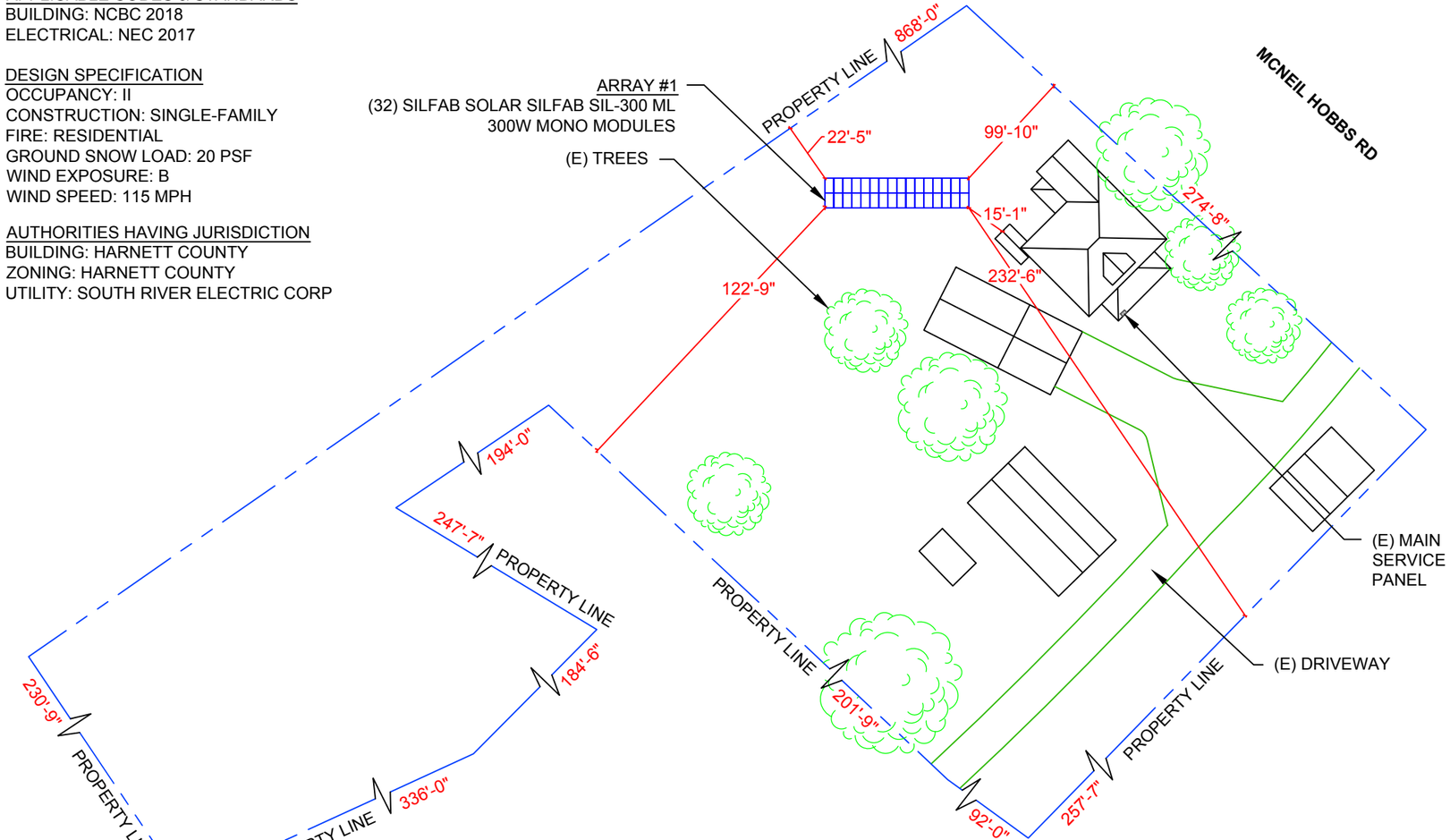
32 x SILFAB SOLAR SILFAB SIL-300 ML 300W MONO MODULES
GROUND MOUNTED SOLAR PHOTOVOLTAIC MODULES
SYSTEM SIZE: 9.60 kW DC STC
ARRAY AREA #1:- 585.60 SQ FT.

EQUIPMENT SUMMARY
32 SILFAB SOLAR SILFAB SIL-300 ML 300W MODULES
32 SOLAREDGE POWER OPTIMIZER P320
01 SOLAREDGE SE10000H-US INVERTER

APPLICABLE CODES & STANDARDS
BUILDING: NCBC 2018
ELECTRICAL: NEC 2017

DESIGN SPECIFICATION
OCCUPANCY: II
CONSTRUCTION: SINGLE-FAMILY
FIRE: RESIDENTIAL
GROUND SNOW LOAD: 20 PSF
WIND EXPOSURE: B
WIND SPEED: 115 MPH

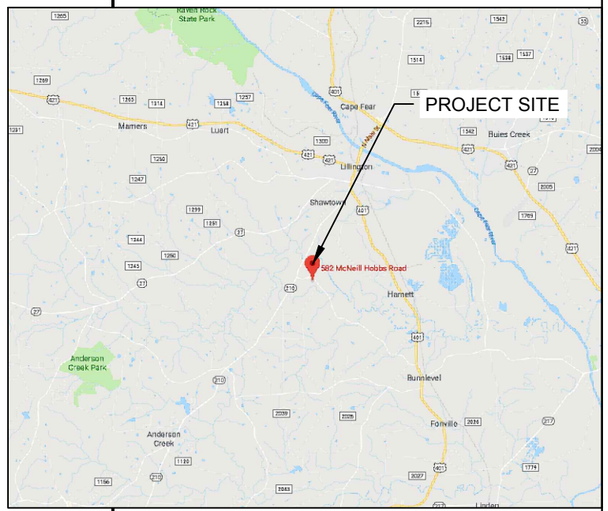
AUTHORITIES HAVING JURISDICTION
BUILDING: HARNETT COUNTY
ZONING: HARNETT COUNTY
UTILITY: SOUTH RIVER ELECTRIC CORP



1 PLOT PLAN WITH ROOF PLAN
PV-1 SCALE: 1"=50'-0"

NOTE: GROUNDMOUNT
LOCATION TBD ON-SITE

2 HOUSE PHOTO
PV-1 SCALE: NTS



3 VICINITY MAP
PV-1 SCALE: NTS

SHEET INDEX

PV-1	PLOT PLAN & VICINITY MAP
PV-2	ROOF PLAN & MODULES
PV-2A	STRING LAYOUT
PV-3	GROUNDING DETAILS
PV-3A	GROUNDING DETAILS
PV-4	ELECTRICAL LINE DIAGRAM
PV-5	WIRING CALCULATIONS
PV-6	SOLAREDGE OPTIMIZER CHART
PV-7 to 10	EQUIPMENT SPECIFICATIONS

POWERHOME SOLAR & ROOFING
POWER HOME SOLAR, LLC
"POWER YOUR FUTURE"
919 N. MAIN ST.
MOORESVILLE, NC 28115
Phone: 704-800-6591 (OFFICE)
Email: info@powerhome.com
Web: www.powerhome.com

REVISIONS

DESCRIPTION	DATE	REV

Signature with Seal

DATE: 10/03/2019

PROJECT NAME & ADDRESS
HAROLD LLOYD BRUNSON RESIDENCE
582 MCNEIL HOBBS RD.,
BUNNLEVEL, NC 28323

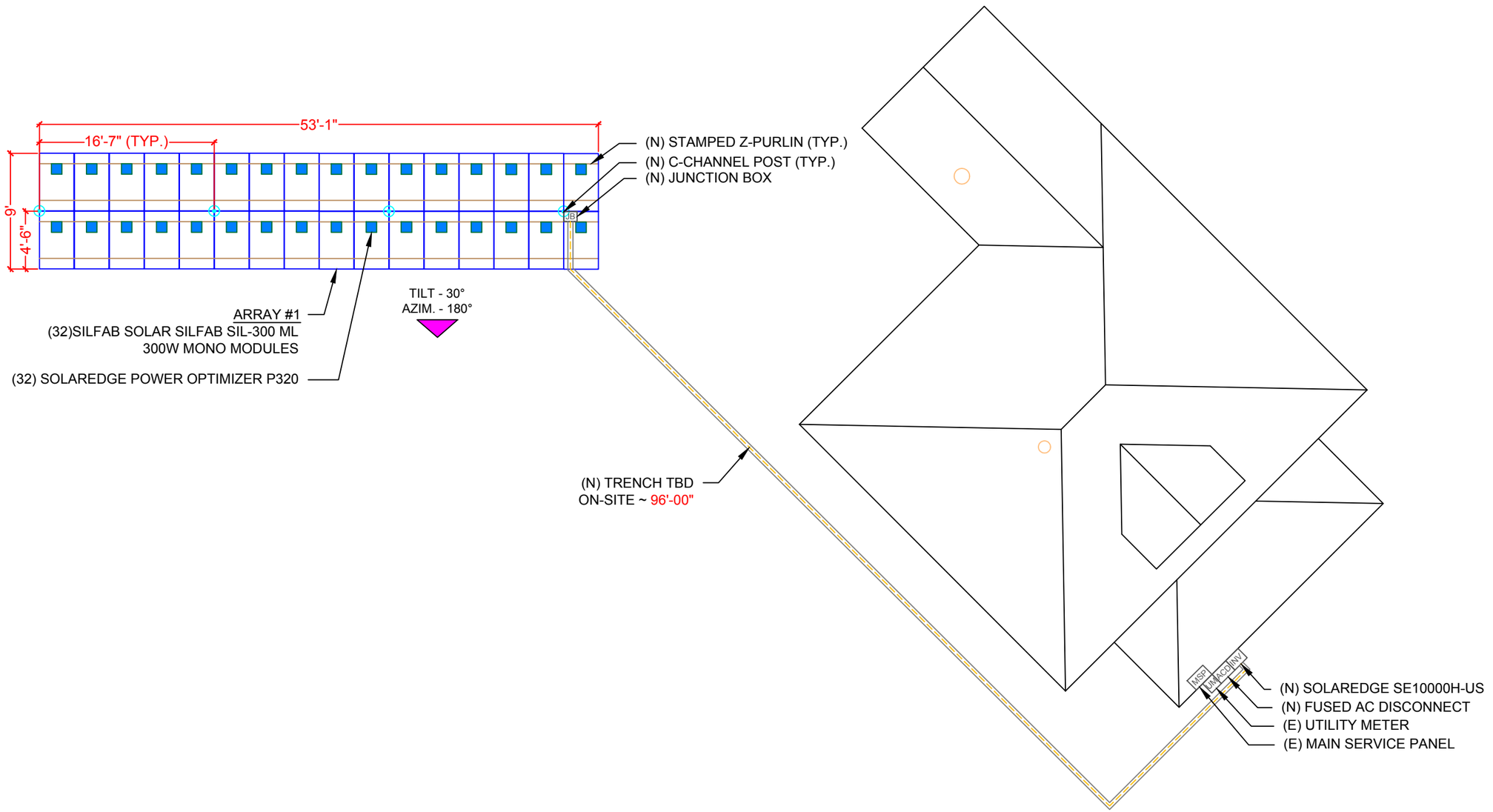
SHEET NAME
PLOT PLAN & VICINITY MAP

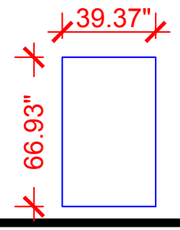
SHEET SIZE
ANSI B
11" X 17"

SHEET NUMBER
PV-1

MODULE TYPE, DIMENSIONS & WEIGHT

NUMBER OF MODULES = 32 MODULES
MODULE TYPE = SILFAB SOLAR SILFAB SIL-300 ML 300W MONO MODULES
MODULE WEIGHT = 41.89 LBS / 19 KG.
MODULE DIMENSIONS = 66.93"x 39.37" = 18.30 SF





SILFAB SOLAR
SILFAB SIL-300 ML
300W MONO
MODULES

LEGEND

JB	- JUNCTION BOX		- VENT, ATTIC FAN (ROOF OBSTRUCTION)
INV	- INVERTER		- ROOF ATTACHMENT
DC	- INTEGRATED DC DISCONNECT		- RAFTERS
SLD	- SOLAR LOAD CENTER		- CONDUIT
PVM	- PRODUCTION METER	CB	- COMBINER BOX
MSP	- MAIN SERVICE PANEL		

1 ROOF PLAN & MODULES
PV-2 SCALE: 3/32" = 1'-0"

POWERHOME SOLAR & ROOFING
POWER HOME SOLAR, LLC
"POWER YOUR FUTURE"
919 N. MAIN ST.
MOORESVILLE, NC 28115
Phone: 704-800-6591 (OFFICE)
Email: info@powerhome.com
Web: www.powerhome.com

REVISIONS

DESCRIPTION	DATE	REV

Signature with Seal

DATE: 10/03/2019

PROJECT NAME & ADDRESS

HAROLD LLOYD BRUNSON RESIDENCE

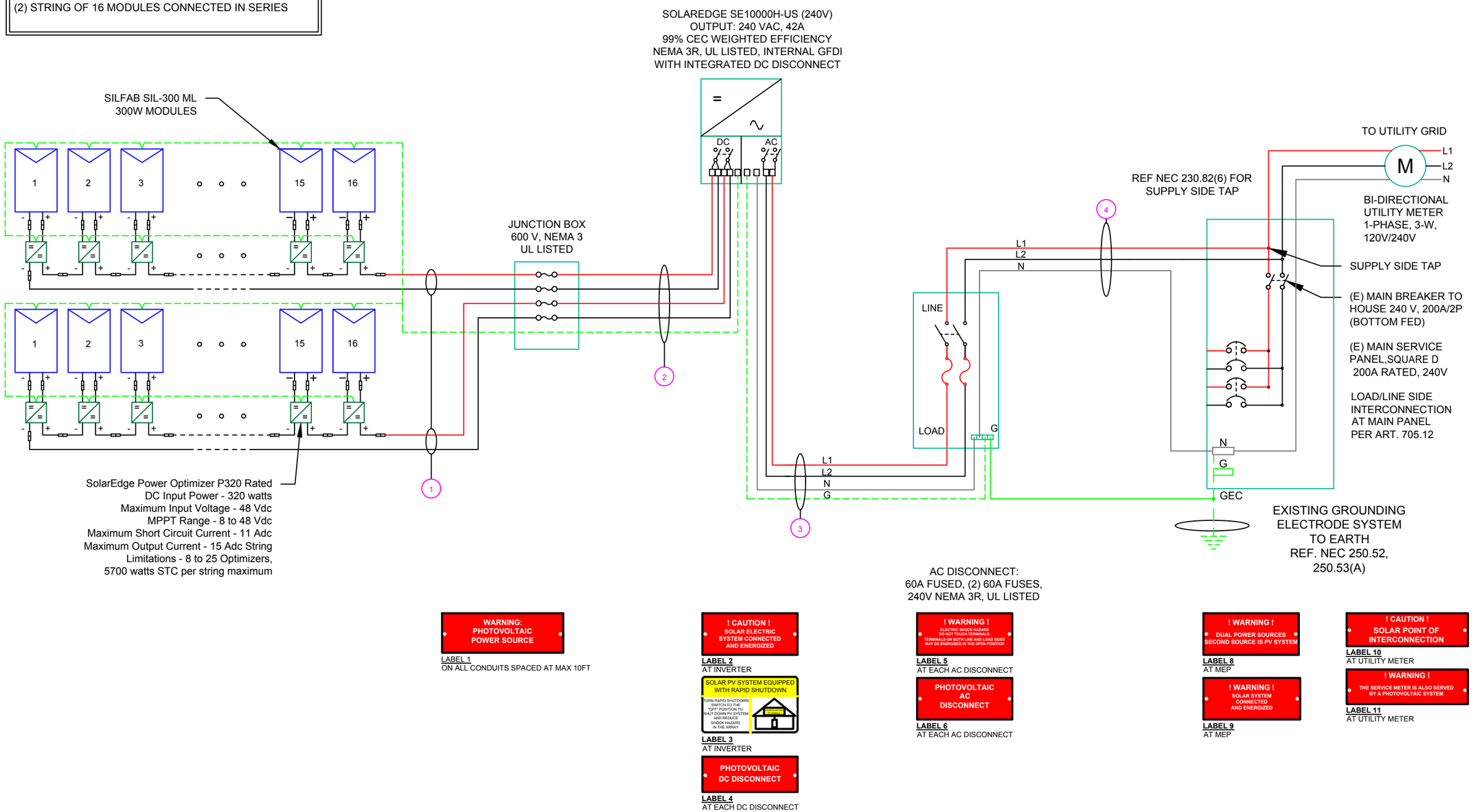
582 MCNEIL HOBBS RD.,
BUNNLEVEL, NC 28323

SHEET NAME
ROOF PLAN & MODULES

SHEET SIZE
ANSI B
11" X 17"

SHEET NUMBER
PV-2

(32) SILFAB SOLAR SILFAB SIL-300 ML
300W MONO MODULES
(2) STRING OF 16 MODULES CONNECTED IN SERIES



WARNING: PHOTOVOLTAIC POWER SOURCE
LABEL 1
ON ALL CONDUITS SPACED AT MAX 10FT

! CAUTION ! SOLAR ELECTRIC SYSTEM CONNECTED AND ENERGIZED
LABEL 2
AT INVERTER

SOLAR PV SYSTEM EQUIPPED WITH RAPID SHUTDOWN
TURN RAPID SHUTDOWN SWITCH TO THE "OFF" POSITION TO SHUT DOWN PV SYSTEM AND REDUCE SHOCK HAZARD IN THE ARRAY
LABEL 3
AT INVERTER

PHOTOVOLTAIC DC DISCONNECT
LABEL 4
AT EACH DC DISCONNECT

! WARNING ! ELECTRIC SHOCK HAZARD DO NOT TOUCH TERMINALS TERMINALS ON BOTH LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION
LABEL 5
AT EACH AC DISCONNECT

PHOTOVOLTAIC AC DISCONNECT
LABEL 6
AT EACH AC DISCONNECT

! WARNING ! DUAL POWER SOURCES SECOND SOURCE IS PV SYSTEM
LABEL 8
AT MEP

! WARNING ! SOLAR SYSTEM CONNECTED AND ENERGIZED
LABEL 9
AT MEP

! CAUTION ! SOLAR POINT OF INTERCONNECTION
LABEL 10
AT UTILITY METER

! WARNING ! THE SERVICE METER IS ALSO SERVED BY A PHOTOVOLTAIC SYSTEM
LABEL 11
AT UTILITY METER

	QTY	CONDUCTOR INFORMATION		CONDUIT TYPE	CONDUIT SIZE
1	(4)	#10AWG -	PV WIRE/USE-2	N/A	N/A
	(1)	#6AWG -	BARE COPPER IN FREE AIR		
2	(4)	#10AWG -	THWN-2	IMC OR PVC IN TRENCH / LFNC	3/4"
	(1)	#6AWG -	THWN-2 GND		
3	(3)	#6AWG -	THWN-2	PVC, LFNC OR LFMC	3/4"
	(1)	#6AWG -	THWN-2 GND		
4	(3)	#6AWG -	THWN-2	PVC, LFNC OR LFMC	3/4"

SERVICE INFO	
UTILITY PROVIDER:	SOUTH RIVER ELECTRIC CORP
MAIN SERVICE VOLTAGE:	240V
MAIN PANEL BRAND:	
MAIN SERVICE PANEL:	200A
MAIN CIRCUIT BREAKER RATING:	200A
MAIN SERVICE LOCATION:	SOUTHEAST
SERVICE FEED SOURCE:	UNDERGROUND

1 ELECTRICAL LINE DIAGRAM
PV-4 SCALE: NTS

POWERHOME SOLAR & ROOFING
POWER HOME SOLAR, LLC
"POWER YOUR FUTURE"
919 N. MAIN ST.
MOORESVILLE, NC 28115
Phone: 704-800-6591 (OFFICE)
Email: info@powerhome.com
Web: www.powerhome.com

REVISIONS

DESCRIPTION	DATE	REV

Signature with Seal

DATE: 10/03/2019

PROJECT NAME & ADDRESS

HAROLD LLOYD BRUNSON
RESIDENCE

582 MCNEIL HOBBS RD.,
BUNNLEVEL, NC 28323

SHEET NAME
ELECTRICAL LINE DIAGRAM

SHEET SIZE
ANSI B
11" X 17"

SHEET NUMBER
PV-4

Silfab SOLAR

SLA-M
Monocrystalline

BAA ARRA | 25 YEAR PRODUCT WARRANTY | AUTOMATED MANUFACTURING | JUST-IN-TIME | DNV·GL TOP PERFORMER | TIER 1 BANKABLE $$$ | HIGH EFFICIENCY

300 Wp 60 Cell

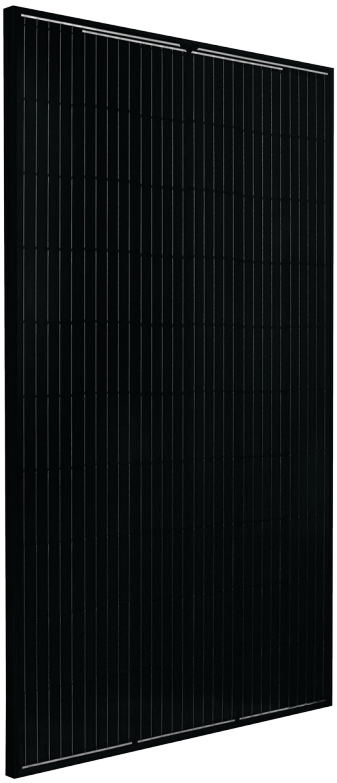
Monocrystalline PV Module

CE | ETL Intertek | ETL Intertek EU | IEC | CEC LISTED | FESC | Fraunhofer ISE

100% MAXIMUM POWER DENSITY
Silfab's SLA-M 300 ultra-high-efficiency modules are optimized for both Residential and Commercial projects where maximum power density is preferred.

100% NORTH AMERICAN QUALITY MATTERS
Silfab's fully-automated manufacturing facility ensures precision engineering is applied at every stage. Superior reliability and performance combine to produce one of the highest quality modules with the lowest defect rate in the industry.

NORTH AMERICAN CUSTOMIZED SERVICE
Silfab's 100% North American based team leverages just-in-time manufacturing to deliver unparalleled service, on-time delivery and flexible project solutions.



ENSURES MAXIMUM EFFICIENCY
60 of the highest efficiency, premium quality monocrystalline cells result in a maximum power rating of 300Wp.

ADVANCED PERFORMANCE WARRANTY
30-year linear power performance guarantee

ENHANCED PRODUCT WARRANTY
25-year product workmanship warranty*

BUILT BY INDUSTRY EXPERTS
With over 35 years of industry experience, Silfab's technical team are pioneers in PV technology and are dedicated to an innovative approach that provides superior manufacturing processes including: infra-red cell sorting, glass washing, automated soldering and meticulous cell alignment.

POSITIVE TOLERANCE
(-0/+5W) All positive module sorting ensures maximum performance

LOWEST DEFECT RATE*
Total automation ensures strict quality control during each step of the process at our certified ISO manufacturing facility.
*82.56 ppm as per December 2017

LIGHT AND DURABLE
Over-engineered to weather low load bearing structures up to 5400 Pa. Light-weight frame exclusively designed with wide-ranging racking compatibility and durability.

PID RESISTANT
Proven in accordance to IEC 62804-1

AVAILABLE WITH
Black Frame and Backsheet

*12 year, extendable based on registration at www.silfabsolar.com

Electrical Specifications		SILFAB SLA Monocrystalline	
Test Conditions		STC	NOCT
Module Power (Pmax)	Wp	300	227
Maximum power voltage (Vpmax)	V	32.8	29.5
Maximum power current (Ipmax)	A	9.16	7.69
Open circuit voltage (Voc)	V	39.85	36.9
Short circuit current (Isc)	A	9.71	7.96
Module efficiency	%	18.4	17.3
Maximum system voltage (VDC)	V	1000	
Series fuse rating	A	20	
Power Tolerance	Wp	-0/+5	

Measurement conditions: STC 1000 W/m2 • AM 1.5 • Temperature 25 °C • NOCT 800 W/m² • AM 1.5 • Measurement uncertainty ≤ 3%
• Sun simulator calibration reference modules from Fraunhofer Institute. Electrical characteristics may vary by ±5% and power by -0/+5.

Temperature Ratings		SILFAB SLA Monocrystalline
Temperature Coefficient Isc	%/K	0.03
Temperature Coefficient Voc	%/K	-0.30
Temperature Coefficient Pmax	%/K	-0.38
NOCT (± 2°C)	°C	45
Operating temperature	°C	-40/+85

Mechanical Properties and Components		SILFAB SLA Monocrystalline
Module weight (± 1 kg)	kg	19
Dimensions (H x L x D; ± 1mm)	mm	1650 x 990 x 38
Maximum surface load (wind/snow)*	N/m²	5400
Hail impact resistance		ø 25 mm at 83 km/h
Cells		60 - Si monocrystalline - 4 or 5 busbar - 156.75 x 156.75 mm
Glass		3.2 mm high transmittance, tempered, antireflective coating
Backsheet		Multilayer polyester-based
Frame		Anodized Al
Bypass diodes		3 diodes-45V/12A, IP67/IP68
Cables and connectors (See installation manual)		1200 mm ø 5.7 mm (4 mm2), MC4 compatible

Warranties	SILFAB SLA Monocrystalline
Module product workmanship warranty	25 years*
Linear power performance guarantee	30 years

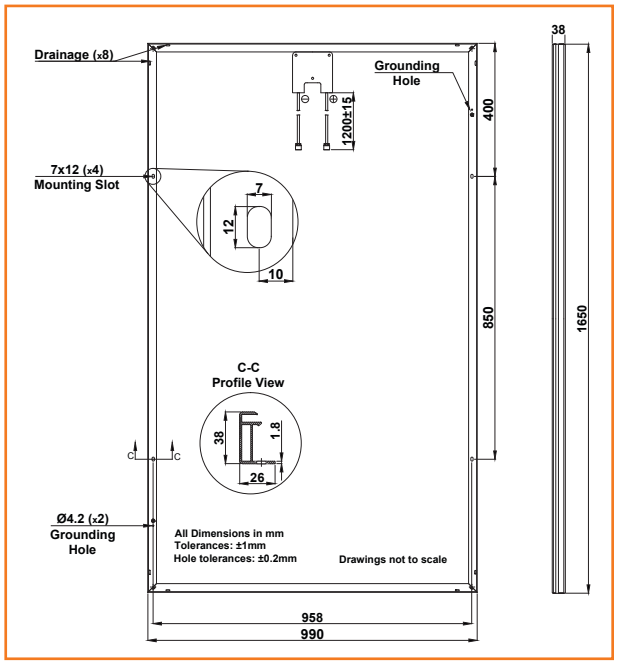
Certifications	SILFAB SLA Monocrystalline
Product	ULC ORD C1703, UL 1703, IEC 61215, IEC 61730-1 and IEC 61730-2 Certified. FSEC and CEC listed. IEC 62716 Ammonia Corrosion, IEC 61701:2011 Salt Mist Corrosion Certified
	UL Fire Rating: Type 2 (Type 1 on request)
Factory	ISO9001:2015

Warning: Read the installation and User Manual before handling, installing and operating modules.

Third-party generated pan files from Fraunhofer-Institute for Solar Energy Systems ISE are available for download at:
www.silfabsolar.com/downloads

TOP PERFORMER 2017 DNV·GL PV MODULE RELIABILITY SCORECARD

- Modules Per Pallet: 26
- Pallets Per Truck: 36
- Modules Per Truck: 936



Silfab Solar Inc.
240 Courtneypark Drive East
Mississauga ON L5T 2Y3 Canada
Tel +1 905-255-2501 | Fax +1 905-696-0267
info@silfabsolar.com | www.silfabsolar.com

Silfab Solar Inc.
800 Cornwall Ave
Bellingham WA 98225 USA
Tel +1 360-569-4733

INVERTERS

Single Phase Inverter
with HD-Wave Technology for North America

SE3000H-US / SE3800H-US / SE5000H-US /
SE6000H-US / SE7600H-US / SE10000H-US / SE11400H-US

Optimized installation with HD-Wave technology

- Specifically designed to work with power optimizers
- Record-breaking efficiency
- Fixed voltage inverter for longer strings
- Integrated arc fault protection and rapid shutdown for NEC 2014 and 2017, per article 690.11 and 690.12
- UL1741 SA certified, for CPUC Rule 21 grid compliance
- Extremely small
- High reliability without any electrolytic capacitors
- Built-in module-level monitoring
- Outdoor and indoor installation
- Optional: Revenue grade data, ANSI C12.20 Class 0.5 (0.5% accuracy)

Single Phase Inverter
with HD-Wave Technology for North America
SE3000H-US / SE3800H-US / SE5000H-US / SE6000H-US/ SE7600H-US / SE10000H-US / SE11400H-US

	SE3000H-US	SE3800H-US	SE5000H-US	SE6000H-US	SE7600H-US	SE10000H-US	SE11400H-US	
OUTPUT								
Rated AC Power Output	3000	3800 @ 240V 3300 @ 208V	5000	6000 @ 240V 5000 @ 208V	7600	10000	11400	VA
Max. AC Power Output	3000	3800 @ 240V 3300 @ 208V	5000	6000 @ 240V 5000 @ 208V	7600	10000	11400	VA
AC Output Voltage Min.-Nom.-Max. (183 - 208 - 229)	-	✓	-	✓	-	-	-	Vac
AC Output Voltage Min.-Nom.-Max. (211 - 240 - 264)	✓	✓	✓	✓	✓	✓	✓	Vac
AC Frequency (Nominal)	59.3 - 60 - 60.5[1]							Hz
Maximum Continuous Output Current 208V	-	16	-	24	-	-	-	A
Maximum Continuous Output Current @240V	12.5	16	21	25	32	42	47.5	A
GFDI Threshold	1							A
Utility Monitoring, Islanding Protection, Country Configurable Thresholds	Yes							
INPUT								
Maximum DC Power @240V	4650	5900	7750	9300	11800	15500	17650	W
Maximum DC Power @208V	-	5100	-	7750	-	-	-	
Transformer-less, Ungrounded	Yes							
Maximum Input Voltage	480							Vdc
Nominal DC Input Voltage	380				400			Vdc
Maximum Input Current 208V	-	9	-	13.5	-	-	-	
Maximum Input Current @240V	8.5	10.5	13.5	16.5	20	27	30.5	Adc
Max. Input Short Circuit Current	45							Adc
Reverse-Polarity Protection	Yes							
Ground-Fault Isolation Detection	600kΩ Sensitivity							
Maximum Inverter Efficiency	99	99.2						%
CEC Weighted Efficiency	99							%
Nighttime Power Consumption	< 2.5							W
ADDITIONAL FEATURES								
Supported Communication Interfaces	RS485, Ethernet, ZigBee (optional), Cellular (optional)							
Revenue Grade Data, ANSI C12.20	Optional[2]							
Rapid Shutdown - NEC 2014 and 2017 690.12	Automatic Rapid Shutdown upon AC Grid Disconnect							
STANDARD COMPLIANCE								
Safety	UL1741, UL1741 SA, UL1699B, CSA C22.2, Canadian AFCI according to T.I.L. M-07							
Grid Connection Standards	IEEE1547, Rule 21, Rule 14 (HI)							
Emissions	FCC Part 15 Class B							
INSTALLATION SPECIFICATIONS								
AC Output Conduit Size / AWG Range	3/4" minimum / 14-6 AWG					3/4" minimum /14-4 AWG		
DC Input Conduit Size / # of Strings / AWG Range	3/4" minimum / 1-2 strings / 14-6 AWG					3/4" minimum / 1-3 strings / 14-6 AWG		
Dimensions with Safety Switch (HxWxD)	17.7 x 14.6 x 6.8 / 450 x 370 x 174					21.3 x 14.6 x 7.3 / 540 x 370 x 185		in / mm
Weight with Safety Switch	22 / 10	25.1 / 11.4		26.2 / 11.9		38.8 / 17.6		lb / kg
Noise	< 25				<50			dBA
Cooling	Natural Convection				Natural convection			
Operating Temperature Range	-13 to +140 / -25 to +60[3] (-40˚F / -40˚C option)[4]							˚F / ˚C
Protection Rating	NEMA 3R (Inverter with Safety Switch)							

[1] For other regional settings please contact SolarEdge support
[2] Revenue grade inverter P/N: SExxxxH-US000NNC2
[3] For power de-rating information refer to: https://www.solaredge.com/sites/default/files/se-temperature-derating-note-na.pdf
[4] -40 version P/N: SExxxxH-US000NNU4

ETL LISTED RoHS