

**Michele Gelfman,
President**

CERTIFICATE OF APPROPRIATENESS

ADMINISTRATIVE APPROVAL

The Historic Preservation Commission of South Bend and St. Joseph County has approved the following work:

Install 20 solar panels mounted flush on south facing roof.
Install inverter either on or in garage.

Wellspring Renewable Energy LLC, Contractor
for the following location:

1238 WAYNE ST
South Bend, IN, 46615
East Wayne Street
Application No. 2019-0930A

in the County of St. Joseph; State of Indiana; which is:

- Located in a Local Historic District** Ord No. 7796-87
 A Local Historic Landmark East Wayne Street

and found this application to be appropriate according to the Standards pertaining to Local Historic Landmarks and/or Local Historic Districts. Regulations pertaining to the Historic Preservation Commission are found in Chapter 21 (Zoning), South Bend Municipal Code and Chapter 26 of the St. Joseph County Code.

The issuance of this certificate does NOT in any manner, release the recipient from the responsibility of complying with the requirements of the zoning ordinances, building codes, safety codes, ADA or other requirements of the City of South Bend, the County of St. Joseph, the State of Indiana, or the United States Federal Government.

This certificate is good for one year from the date of issuance and is effective from the date entered herein. Plans are on file and open for public inspection at the office of the Historic Preservation Commission of South Bend and St. Joseph County, 227 West Jefferson Blvd., Suite 1400 S, South Bend, Indiana, during normal business hours.

HISTORIC PRESERVATION COMMISSION OF SOUTH BEND AND ST. JOSEPH COUNTY

Phone: (574) 235-9371

E-mail: SBSJCHPC@southbendin.gov

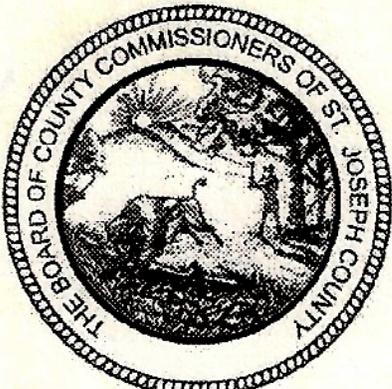
THIS CERTIFICATE IS NOT TRANSFERABLE

NAME OF APPLICANT: Neil & Allison Mihalich

DATE CERTIFICATE
TAKES FORCE: 9/30/2019

DATE CERTIFICATE
EXPIRES: 9/30/2020

CERTIFICATE ISSUED BY:
Elicia Feasel
Historic Preservation Administrator



ELICIA FEASEL

**Historic Preservation
Administrator**

POST IN A CONSPICUOUS PLACE ON THE STREET SIDE
OF THE PROJECT UNTIL COMPLETION OF ALL WORK.



SEP 25 2019 Rec. 065616 MA \$20.00

HISTORIC PRESERVATION COMMISSION

OF SOUTH BEND AND ST. JOSEPH COUNTY

County—City Building, South Bend, IN 46601

http://www.southbendin.gov/government/departments/community-investment

Phone: 574/235.9371

Fax: 574/235.9021

Email: hpcbsjc@southbendin.gov

Michele Gelfman, President

A Certified Local Government of the National Park Service

Elicia Feasel, Historic Preservation Administrator

APPLICATION FOR A — CERTIFICATE OF APPROPRIATENESS

OFFICE USE ONLY >>>>>> **DO NOT COMPLETE ANY ENTRIES CONTAINED IN THIS BOX** <<<<<<< **OFFICE USE ONLY**

Date Received: 9/25/19 Application Number: 2019 — 0930A

Past Reviews: YES (Date of Last Review) _____ NO

Staff Approval authorized by: Elicia Feasel Title: HP Administrator

Historic Preservation Commission Review Date: n/a

Local Landmark Local Historic District (Name) East Wayne Street

National Landmark National Register District (Name) _____

Certificate Of Appropriateness: Denied Tabled Sent To Committee Approved and issued: 9/30/19

Address of Property for proposed work: 1238 - Wayne Street South - South Bend - 46615
(Street Number—Street Name—City—Zip)

Name of Property Owner(s): Allison & Neil Mihalich Phone #: 5084156644

Address of Property Owner(s): 1238 - Wayne Street South - South Bend - 46615
(Street Number—Street Name—City—Zip)

Name of Contractor(s): Jason Eiseman Phone #: 260-336-2724

Contractor Company Name: Wellspring Renewable Energy, LLC

Address of Contractor Company: 1085 - N 850 W - Shipshewana - 46565
(Street Number—Street Name—City—Zip)

Current Use of Building: Single Family
(Single Family—Multi-Family—Commercial—Government—Industrial—Vacant—etc.)

Type of Building Construction: Other
(Wood Frame—Brick—Stone—Steel—Concrete—Other)

Proposed Work: (more than one box may be checked) Landscape New Replacement (not in-kind) Demolition

Description of Proposed Work: Installation of 20 solar panels on south (sunnymede) facing roof.

Owner e-mail: neil.mihalich@gmail.com and/or Contractor e-mail: jason@wellspringllc.us

X [Signature] and/or X [Signature]
Signature of Owner Signature of Contractor







A custom proposal for: Allison Mihalich
1238 E Wayne St S
South Bend, IN 46615

Created by Wellspring Renewable Energy, Arlin Yoder,
1085 N.850 W, Shippshewana IN 46565

Clean, cost-effective
energy is now
within your reach.

Disclaimers:

This proposal was prepared by and presented to you by your solar installer. The information provided in this proposal is a preliminary estimate for illustration purpose only and is not a binding agreement or obligation. Actual system production or savings is not guaranteed. The system design may change based on a detailed engineering site audit. A solar power system is customized for your home, so its pricing, actual system production and savings will vary based on the final location, system size, design, configuration, utility rates, applicable rebates, tax benefits realized, and your household's energy usage.

Financing terms may vary and are not available in all locations. Tax credits and incentives, if any, are not guaranteed. This proposal is not an approval for a loan, and all financing terms are subject to approval.

Key Proposal Assumptions:

The information provided in this proposal, such as savings calculations, is based on the following assumptions:

Utility Assumptions:

- Utility Company — Indiana Michigan Power Co (Indiana)
- Current Utility Rate — Residential (copy)
- Current Estimated Annual Utility Bill — \$1,344
- Annual Utility Price Increase Rate — 2.0%

System Assumptions:

- System Size — 7.20kW
- Annual System Degradation due to soiling and general wear — 0.5%
- Total System Cost — \$20,074

Financial Assumptions:

- Cash flows Discount Rate — 5.0%
- Down Payment — \$20,074
- Federal Tax Incentive — \$6,022
- State Tax Incentive — \$0
- Other Incentive — \$0

Why Wellspring Renewable Energy?

What Makes Wellspring Renewable Energy different

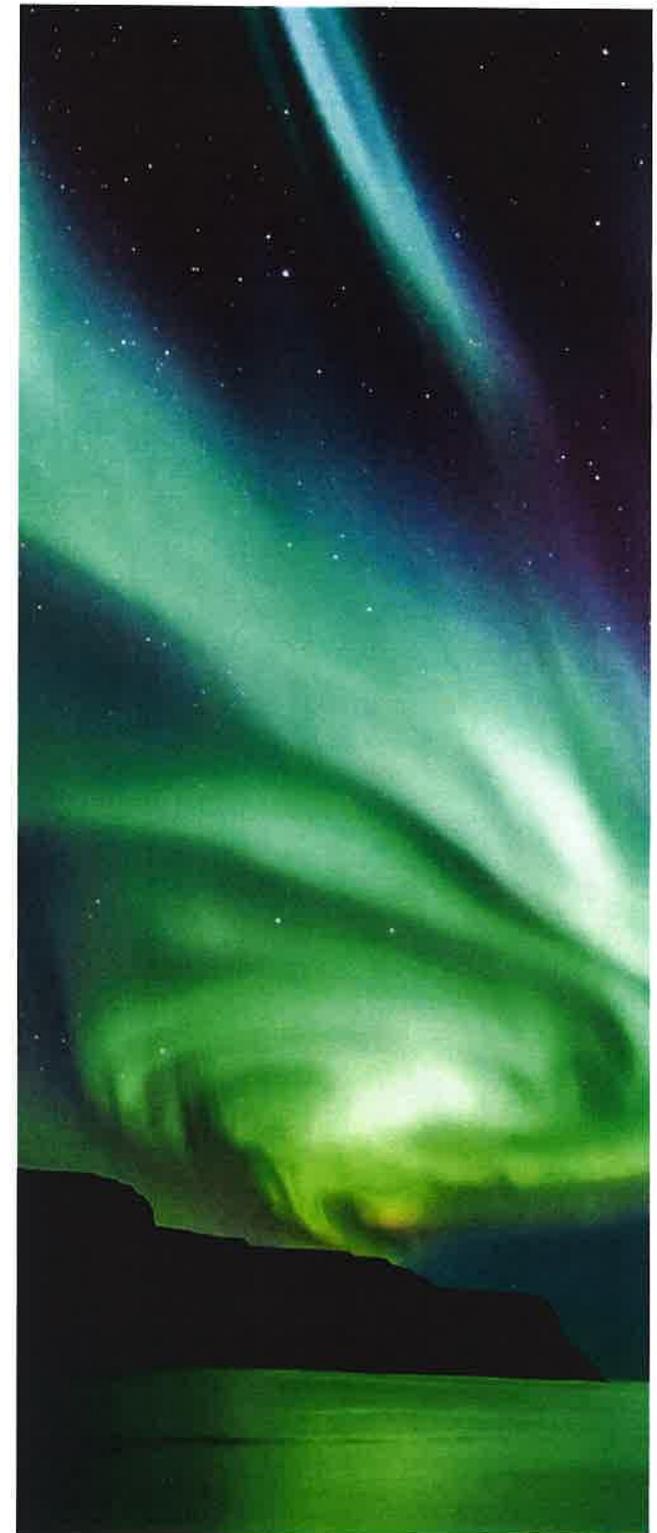
We are a leader of the solar energy field. Over 20 years in business in Solar, we offer the latest technologies. We apply our experience to your project and customize a system to fit your needs. Grid-Tie, Off Grid and RV solar, we have your project covered.

We believe in quality

We put all our knowledge and expertise in every project. We use only the top tiered products to make sure that your system stays running. Our panels come covered with a 25 year production warranty, most inverters are warranted between seven and twelve years, and we offer a 5 year workmanship warranty.

We use the most advanced modeling software in the industry to create your estimates

Not all numbers are created equal. Your system proposal was carefully modeled on the Aurora platform, which conducts the most accurate performance simulations in the industry. The performance numbers we offer are what you can actually expect to get from your system.



Your system

Overview

System Size	7.20 kW
System Cost	\$20,074
Est. Year 1 Production	8,803 kWh
Est. Year 1 Savings	\$1,074

Statistics



Components (Your installation uses the latest in solar technology)



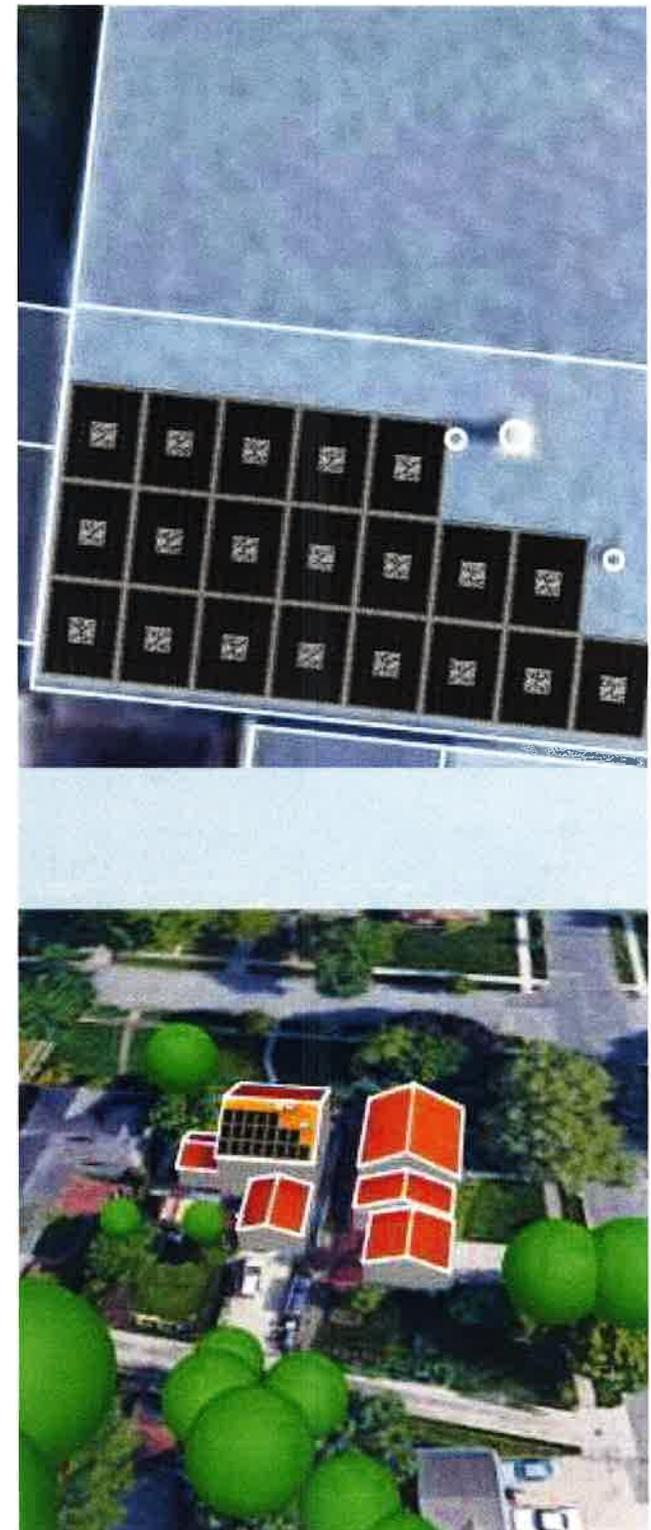
Solar Panels:

Solaria PowerXT-360R-PD



Inverters:

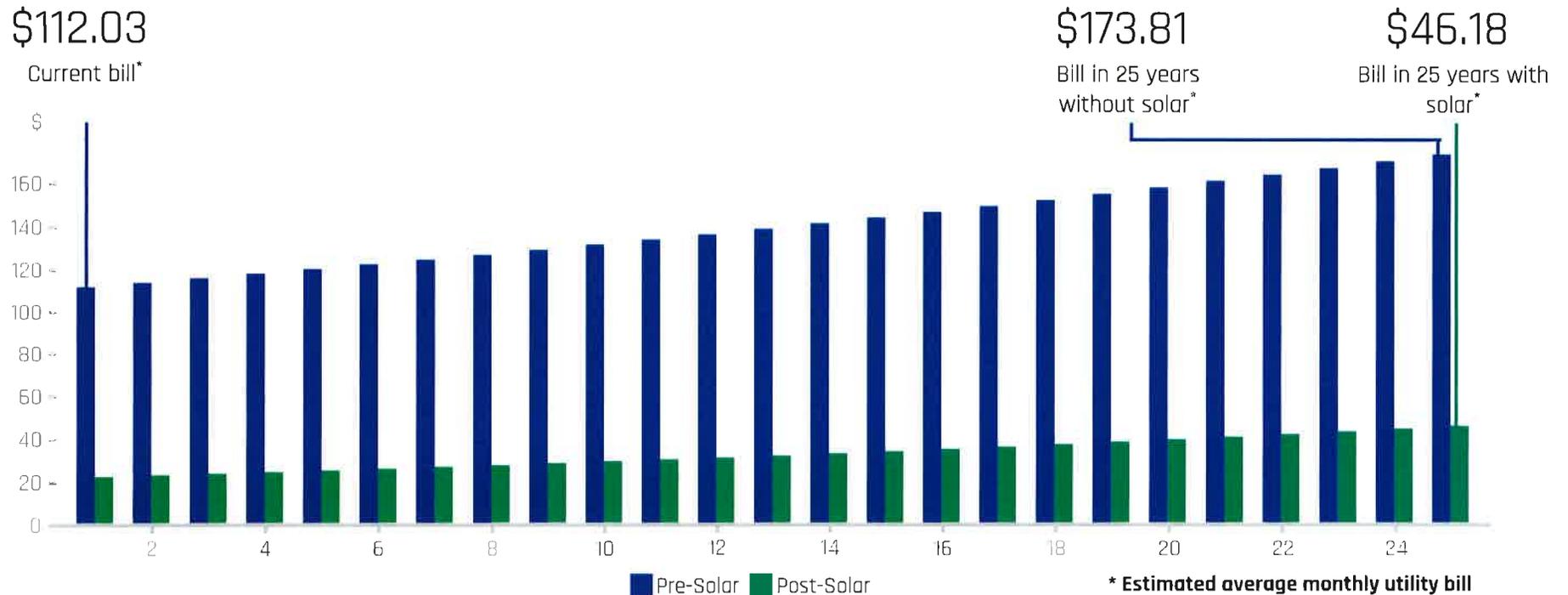
SolarEdge Technologies Inc.
SE7600A-US (240V)



What is the cost of not getting solar?

Protect yourself from rising electricity rates

Energy prices are projected to increase every year. A solar investment protects against these hikes and keeps generating more and more value every year.



How much will you save with solar?

\$2,522

How much you'll save on energy in 25 years*



With solar

\$23

Est. monthly utility bill

\$46

Est. monthly utility bill
in 25 years



Without solar

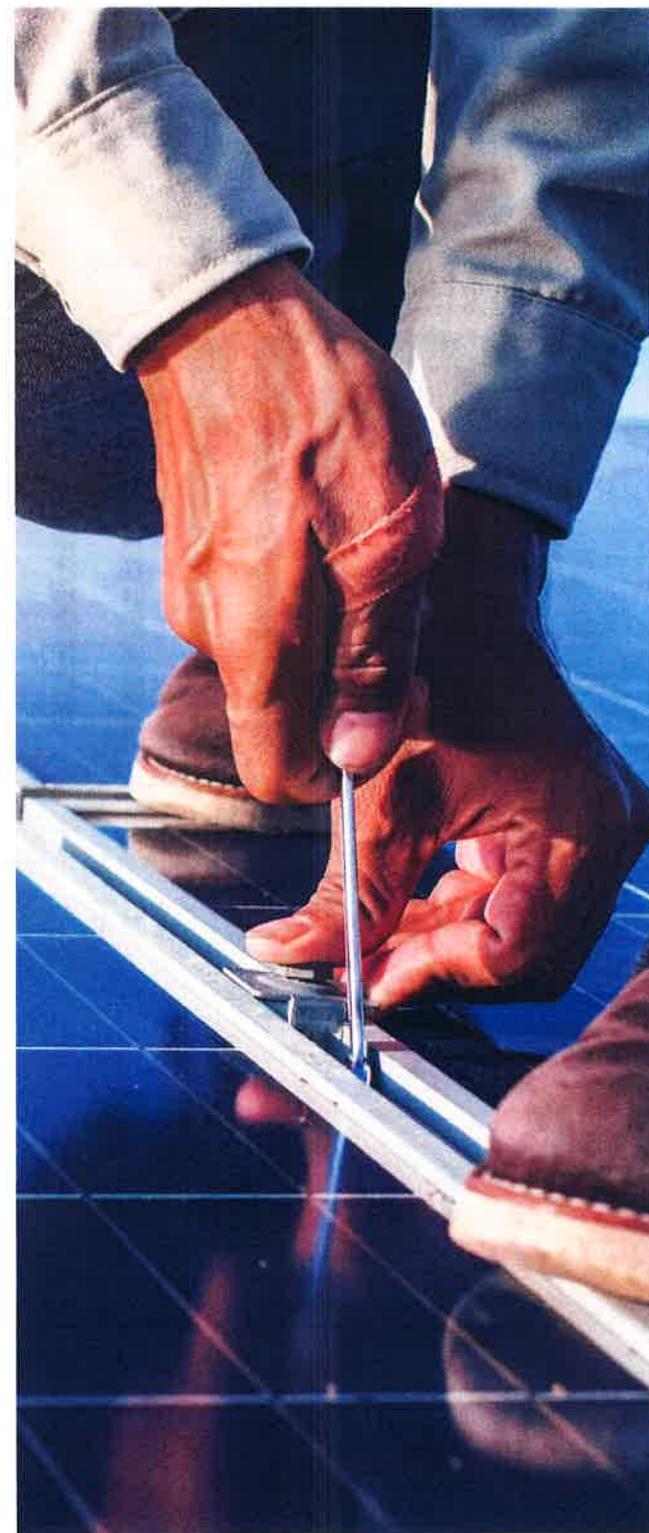
\$112

Est. monthly utility bill

\$174

Est. monthly utility bill
in 25 years

*Estimated savings after system purchase, financing, and operating costs. Assumes utility rates increase 2.0% per year, and cashflows discounted at 5.0%.



Compare financing options

	Cash	Loan
Pay now	\$20,074	\$n/a
Est. monthly utility bill*	\$17	\$n/a
Est. monthly loan payment*	\$0	\$n/a
Est. monthly savings*	\$8	\$n/a
Est. total savings over 25 years	\$2,522	\$n/a

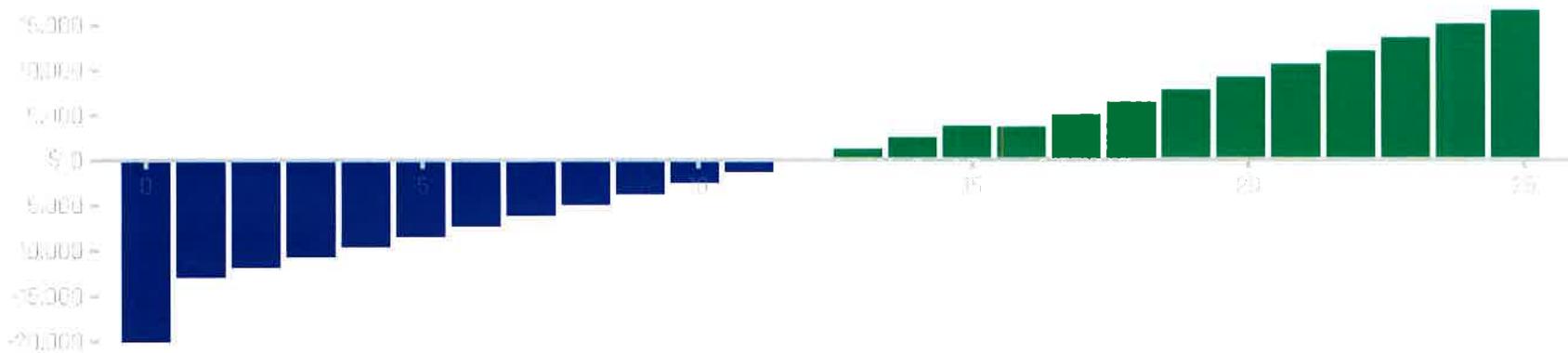
*Monthly average over the 25 year life of the system.



Cash

\$2,522 Estimated 25 year savings*

Est. total value generated by your system after each year over 25 years.



Year 1	Before	After		
Est. Utility Bill	\$112	\$23	System Cost	\$20,074
Est. Year 1 Monthly Savings		\$89	Grants	- \$0
			National Incentive	- \$6,022
			Net System Cost	\$14,051

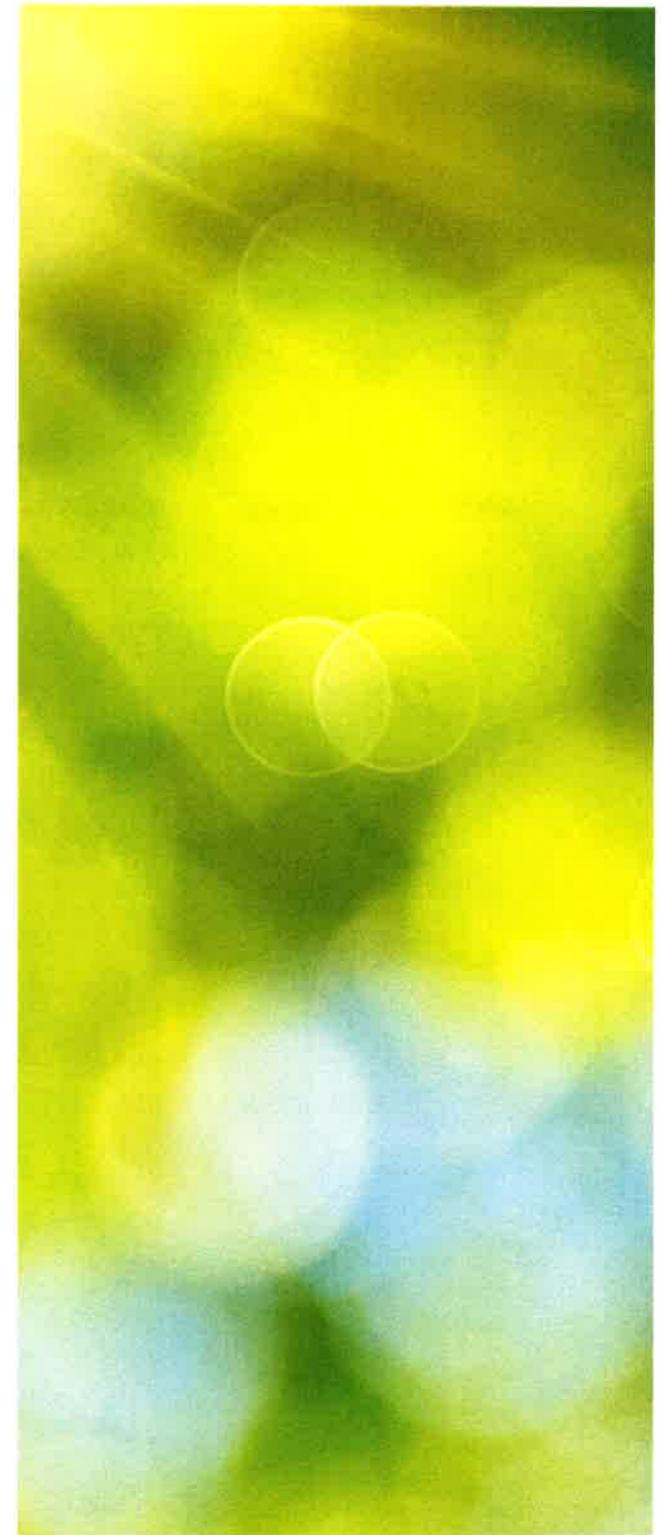
*Estimated savings after system purchase, financing, and operating costs. Assumes utility rates increase 2.0% per year, and cashflows discounted at 5.0%.

Rebates and incentives

\$6,022	Amount you can save off your system
\$6,022	National Incentives (30% of a \$20,074 system)
\$0	Local Incentives

Receive a credit on your system

The 30% federal ITC starts to phase out after Dec 31, 2019.
Get solar now to take advantage of these discounts!



Why go solar?

Invest in your home

According to a study by Berkeley National Labs, a solar installation can improve a **home's market value by 20%***

Invest in the environment

The amount of clean energy you generate in each year compared to conventional utilities would be equivalent to:

Taking
41 passenger cars
off the road per year

Growing
4,845 tree seedlings
for 10 years

Driving
18,710 fewer miles

*"Selling Into the Sun: Price Premium Analysis of a Multi-State Dataset of Solar Homes". Hoen, Ben and Wiser, Ryan et al. Lawrence Berkeley National Laboratory for the U.S. Department of Energy"

Solarize Indiana

Cost Per Watt: 2.79

Total Cost: 20,074

Added Costs: None

Tax Credit: 6,022

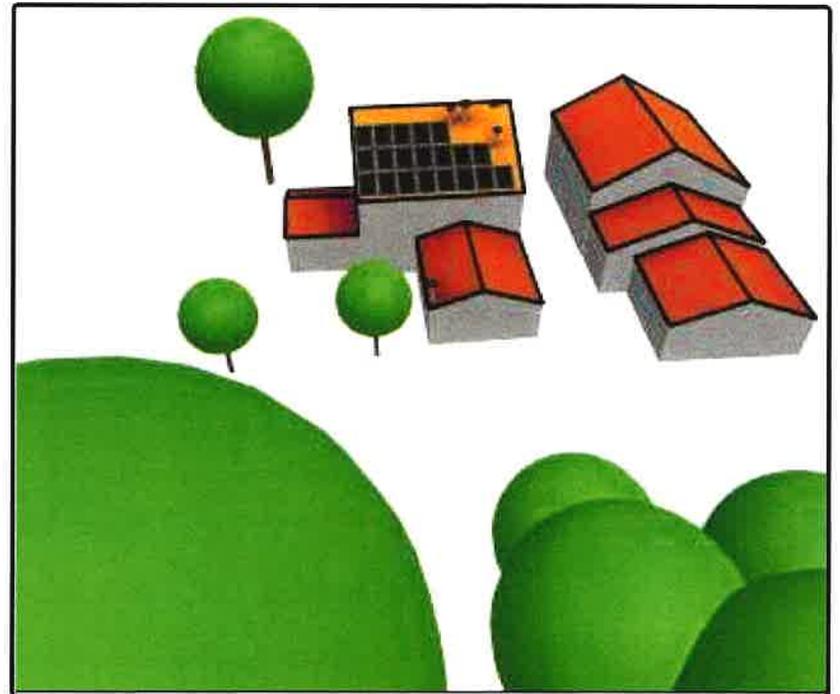
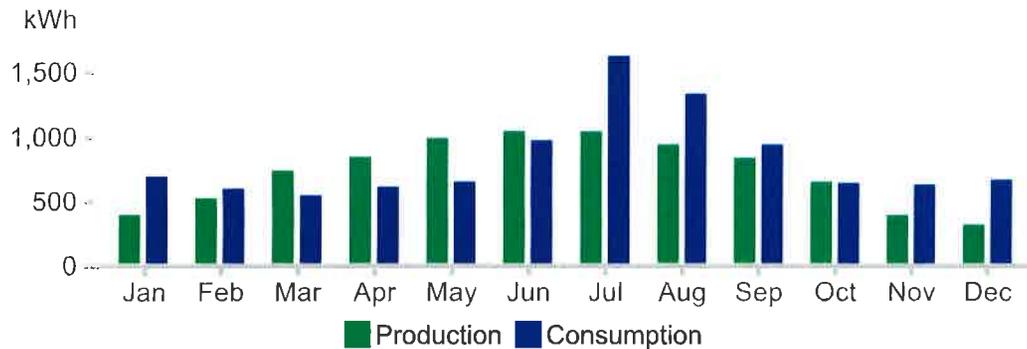
System Net after ITC: 14,051

+ Optional, .02 - .04 Surcharge to provide for Grants.
8,803 kWh / 7.20 kW DC*

Estimated Reduction of Energy Consumption: 88%

* Standard Test Conditions

#All Estimates are based on exact site details, specific to the needs assessed with assistance of LIDAR, Aurora Software, PVWatts and experience of the Wellspring Staff.





Created by Wellspring Renewable Energy, Arlin Yoder, 1085 N.850 W, Shipshewana IN 46565



Achieving up to 19.4% efficiency, Solaria PowerXT solar modules are one of the highest power modules in the residential solar market. Compared to conventional modules, Solaria PowerXT modules have fewer gaps between the solar cells; this leads to higher power and superior aesthetics. Solaria PowerXT residential modules are manufactured with black backsheets and frames, giving them a striking appearance.

Developed in California, Solaria's patented cell cutting and module assembly takes processed solar wafers and turns them into PowerXT solar modules. The process starts by creating a highly reliable PowerXT cell where busbars and ribbon interconnections are eliminated. Solaria then packages the cells into the PowerXT solar module, reducing inactive space between the cells. All of the above leads to an exceptionally efficient solar module produced in a cost effective manner.

Higher Efficiency, Higher Power

Solaria PowerXT modules achieve up to 19.4% efficiency; conventional modules achieve 15% – 17% efficiency. Solaria PowerXT modules are one of the highest power modules available.

Lower System Costs

Solaria PowerXT modules produce more power per square meter area. This reduces installation costs due to fewer balance of system components.

Improved Shading Tolerance

Sub-strings are interconnected in parallel, within each of the four module quadrants, which dramatically lowers the shading losses and boosts energy yield.

Improved Aesthetics

Compared to conventional modules, Solaria PowerXT modules have a more uniform appearance and superior aesthetics.

Durability and Reliability

Solder-less cell interconnections are highly reliable and designed to far exceed the industry leading 25 year warranty.



About Solaria

Established in 2000, The Solaria Corporation has created one of the industry's most respected IP portfolios, with over 100 patents encompassing materials, processes, applications, products, manufacturing automation and equipment. Headquartered in Fremont, California, Solaria has developed a technology platform that unlocks the potential of solar energy allowing it to be ubiquitous and universally accessed.



Performance at STC (1000W/m², 25° C, AM 1.5)

Solaria PowerXT-		340R-BD	345R-BD	345R-PD	350R-PD
Max Power (P _{max})	[W]	340	345	345	350
Efficiency	[%]	18.8	19.1	19.1	19.4
Open Circuit Voltage (V _{oc})	[V]	46.9	47.1	46.9	47.1
Short Circuit Current (I _{sc})	[A]	9.36	9.40	9.46	9.49
Max Power Voltage (V _{mp})	[V]	38.6	38.9	38.5	38.8
Max Power Current (I _{mp})	[A]	8.79	8.88	8.93	9.02
Power Tolerance	[%]	-0/+3	-0/+3	-0/+3	-0/+3

Performance at NOCT (800W/m², 20°C Amb, Wind 1 m/s, AM 1.5)

Max Power (P _{max})	[W]	252	255	255	259
Open Circuit Voltage (V _{oc})	[V]	44.1	44.3	44.1	44.3
Short Circuit Current (I _{sc})	[A]	7.58	7.61	7.66	7.69
Max Power Voltage (V _{mp})	[V]	35.5	35.8	35.4	35.7
Max Power Current (I _{mp})	[A]	7.03	7.10	7.15	7.22

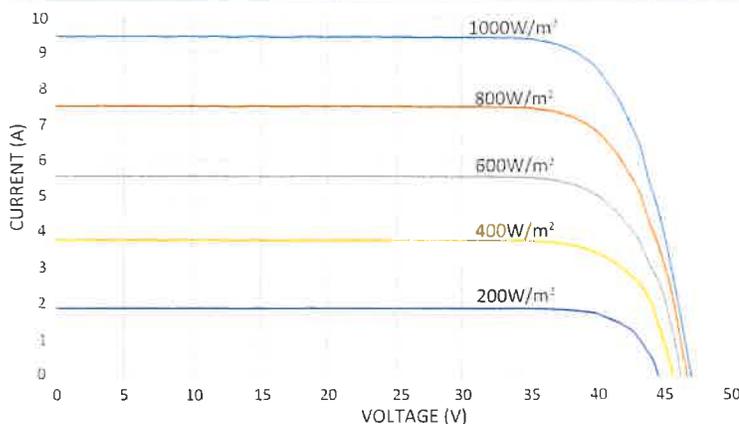
Temperature Characteristics

NOCT	[°C]	45 +/-2
Temp. Coeff. of P _{max}	[% / °C]	-0.39
Temp. Coeff. of V _{oc}	[% / °C]	-0.29
Temp. Coeff. of I _{sc}	[% / °C]	0.04

Design Parameters

Operating temperature	[°C]	-40 to +85
Max System Voltage	[V]	1000
Max Fuse Rating	[A]	15
Bypass Diodes	[#]	4

IV Curves (350W Module)



Authorized Dealer



Mechanical Characteristics

Cell Type	Monocrystalline Silicon
Dimensions (L x W x H)	1621mm x 1116mm x 40mm
Weight	21 kg / 46 lbs
Glass Type / Thickness	AR Coated, Tempered / 3.2mm
Frame Type	Anodized Aluminum
Cable Type / Length	12 AWG PV Wire (UL) / 1000mm
Connector Type	Amphenol H4 (MC4 compatible)
Junction Box	IP67 / 4 diodes
Front Load (UL 1703)	5400 Pa / 113 psf
Rear Load (UL 1703)	3600 Pa / 75 psf

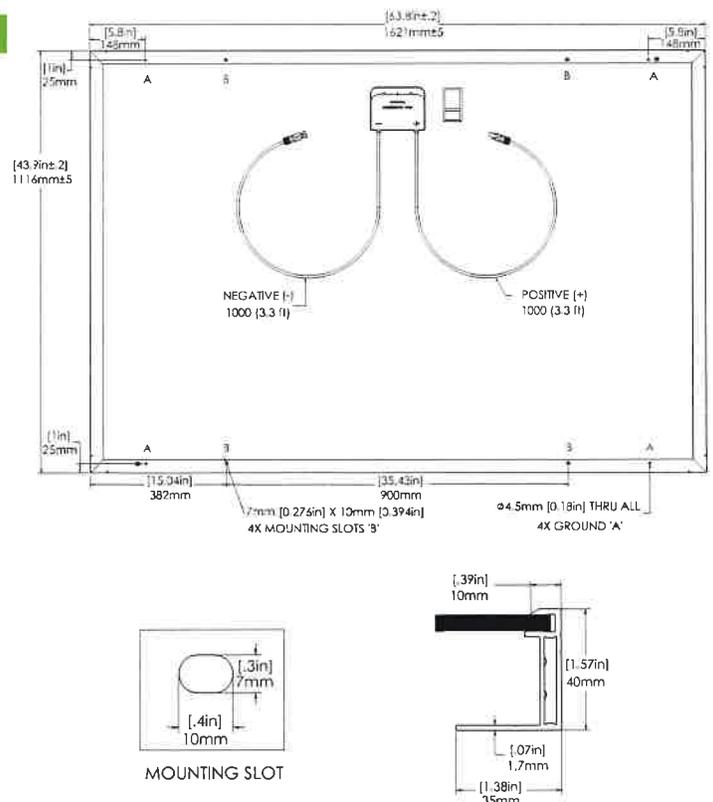
Certifications / Warranty

Certifications	UL 1703/IEC 61215/IEC 61730/CEC
Fire Type (UL 1703)	1
Power & Product Warranty	25 years*

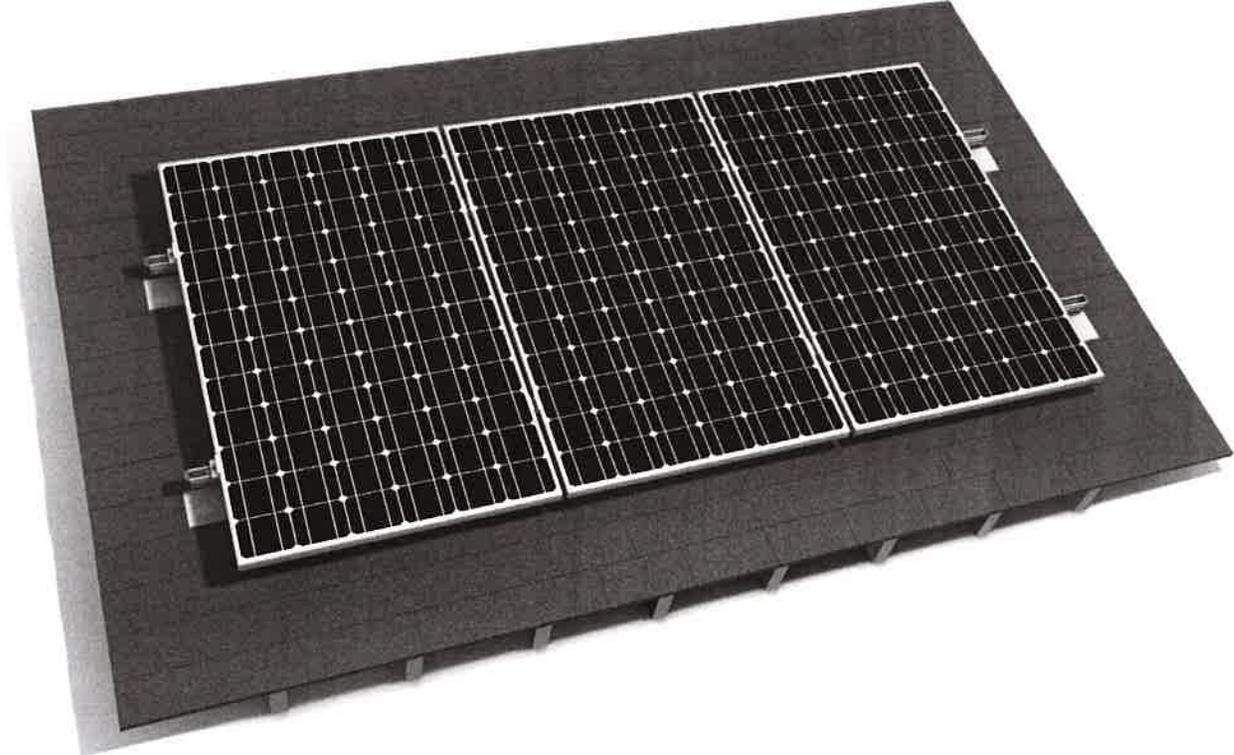
* Warranty details at www.solaria.com

Packaging

Stacking Method	Horizontal / Palletized
Pcs / Pallet	25
Pallet Dims (L x W x H)	1685 x 1150 x 1230 mm
Pallet Weight	590 kg / 1300 lbs
Pallets / 40-ft Container	28
Pcs / 40-ft Container	700



Mounting systems for solar technology



EVEREST SOLAR SYSTEMS
RESIDENTIAL ROOF SOLUTIONS
CROSSRAIL SYSTEM

Everest Solar Systems, LLC
3809 Ocean Ranch Blvd., Suite 111
Oceanside, CA 92056
Service-Hotline: +1-760-301-5300
info@everest-solarsystems.com
www.everest-solarsystems.com

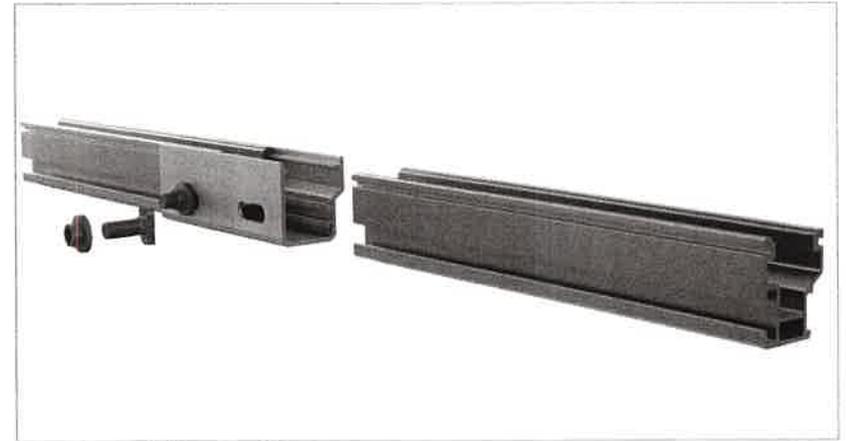
CROSSRAIL SYSTEM



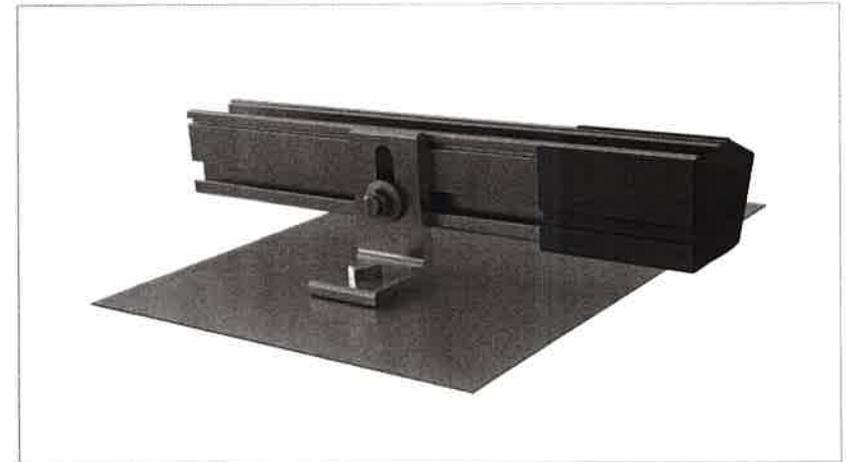
- ▶ High quality, German-engineered system optimized for residential installation
- ▶ MK3 mounting hardware simplifies module installation – fast, easy, and secure
- ▶ Easily integrates with third party roof attachment products
- ▶ L-foot provides adjustability and compatibility with common roof types
- ▶ 100% code-compliant, structural validation for all solar states
- ▶ Three rail sizes available to suit all structural conditions
- ▶ Most components also available in dark
- ▶ Fast installation with minimal component count result in low total installed cost
- ▶ Simple to design using code compliant Everest Online Design Tool
- ▶ Use two innovative components to turn this system into Shared Rail or Tilt Up

TECHNICAL DATA

Applicable roof types	Composition shingle, tile, flat tile
Flexibility	Modular construction, suitable for any system size, height adjustable
PV modules	For all common module types
Module orientation	Portrait and landscape
Material	High corrosion resistance, stainless steel and high grade aluminum
Roof attachment	Screw connection into rafter
Structural validity	IBC compliant, stamped engineering letters available for all solar states
Warranty	20 years
System components	CrossRail 48-X/48-XL/80, L-Foot, Mid and End Clamp Sets



CrossRail Structural Splice



CrossRail with EverFlash, Rail Sleeve and End Cap



Bonding Mid Clamp | End Clamp | Micro, Optimizer & Accs Mounting Kit



Single Phase Inverter with HD-Wave Technology for North America

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

INVERTERS



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	600ka Sensitivity								
Maximum Inverter Efficiency	99						99.2	%	
CEC Weighted Efficiency								%	
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 AFCEI 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

