

Namkoong Residence
28633 Farrier Dr, Santa Clarita, CA 91354

Solar

Quantity: 39 Panels

System Size: 12.285 kW

Est. Annual Production: 20321.12 kWh

Equipment Location

Your solar inverter(s) and any additional equipment will be installed near your utility electric meter.

At the beginning of installation, the Tesla crew lead will discuss with you the exact location based on your preference and install feasibility.

Front Of House





SolarEdge Single Phase Inverters

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)
- Simple configuration and commissioning with smartphone app and built in Wi-Fi (SE10000H-US, SE11400H-US)



Single Phase Inverters for North America

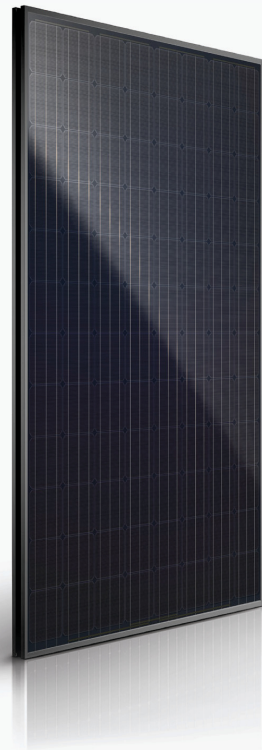
SE3000H-US / SE3800H-US / SE5000H-US / SE6000H-US / SE7600H-US / SE10000H-US / SE11400H-US

	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	7600	10000	11400	VA	
Max. AC Power Output	3000	3800 @240V 3300 @208V	5000	6000	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	4650	5900	7750	9300	11800	15500	17670	W	
Transformer-less, Ungrounded Maximum Input Voltage	Yes							Vdc	
Nominal DC Input Voltage	380							400	Vdc
Maximum Input Current 208V	-	9	13.5	-	-	-	-	Adc	
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	600k Ω Sensitivity								
Maximum Inverter Efficiency	99						99.2	%	
CEC Weighted Efficiency	99							%	
Nighttime Power Consumption	< 2.5							W	
ADDITIONAL FEATURES									
Supported Communication	RS485, Ethernet, ZigBee (optional), Cellular (optional)								
Interfaces	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 / 20-4 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 7.7 / 540 x 370 x 195	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	40.1 / 18.2			lb / kg	
Noise	< 25							< 50	dB(A)
Cooling	Natural Convection				Natural convection and internal fan (user replaceable)				
Operating Temperature Range	-13 to +140 / -25 to +60 ⁽⁴⁾ (-40°F / -40°C option) ⁽⁵⁾							°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-US000NCC2
⁽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



SC-B2 SERIES MODULE



SC315B2 AND SC310B2 BLACK MODULE

Zep Compatible 96-Cell Black-on-Black PV Module
For use in residential and commercial PV installations

MORE POWER PER MODULE

Our 315W module generates 16% more power than a standard 270 W module.

MORE ENERGY EVERY YEAR

More yearly energy (kWh) compared to other modules as they perform better in the heat.

MORE LAYERS, MORE POWER

Manufactured by Panasonic for SolarCity, the module uses Heterojunction cell technology, which adds a layer of thin film silicon on top of high efficiency crystalline silicon.

OUTSTANDING DURABILITY

With more than 20 additional tests performed beyond what is currently mandated, these modules far exceed industry standards.

LEADING WARRANTY

Our modules rank among the best in warranty coverage, with workmanship that extends to 15 years.

MORE POWER, FEWER MODULES

With a sunlight to electricity conversion efficiency of over 18.8%, the module ranks amongst the highest in the industry. That means our modules can harvest more energy from the sun, which means it takes fewer of our modules to power your home. Plus, they generate more power output during the hottest times of the day, even in warmer climates.



LIMITED WARRANTY	Power Output	10 years (90% of P _{MIN}) 25 years (80% of P _{MIN})
	Workmanship	15 years
MATERIALS	Cell Material	5 inch photovoltaic cells
	Glass Material	AR coated tempered glass
	Frame Materials	Black anodized aluminum

CAUTION Please read the installation manual carefully before using the product.

Modules are manufactured by Panasonic to the specification of SolarCity. Modules are only warranted by Panasonic if the modules are included in a PV system sold by SolarCity or Tesla. SolarCity and Tesla make no warranties related to the modules, which are sold as-is. SolarCity will handle any warranty claims on behalf of any purchaser.

MODULE SPECIFICATIONS

ELECTRICAL CHARACTERISTICS

Model	SC315B2	SC310B2
Max Power (W)	315	310
Max Power Voltage, V _{MP} (V)	58.4	58.1
Max Power Current, I _{MP} (A)	5.40	5.34
Open Circuit Voltage, V _{OC} (V)	70.2	69.9
Short Circuit Current, I _{SC} (A)	5.83	5.78
System Voltage (V)	600	600
Max Series Fuse Rating (A)	15	15
Solar Module Efficiency (%)	18.8	18.5
Power Tolerance (%)	+5 / -0	+5 / -0

TEMPERATURE CORRECTION

NOCT (°C)	49
P _{MAX} (%/°C)	-0.29
V _{OC} (%/°C)	-0.25
I _{SC} (%/°C)	0.03

Electrical characteristics are within -5/+10% of the indicated values of I_{SC}, V_{OC}, and P_{MAX} under standard test conditions (irradiance of 100 mW/cm, AM 1.5 spectrum, and a cell temperature of 25 degrees Celsius or 77 degrees Fahrenheit).

AT NOCT (NORMAL OPERATING CONDITIONS)

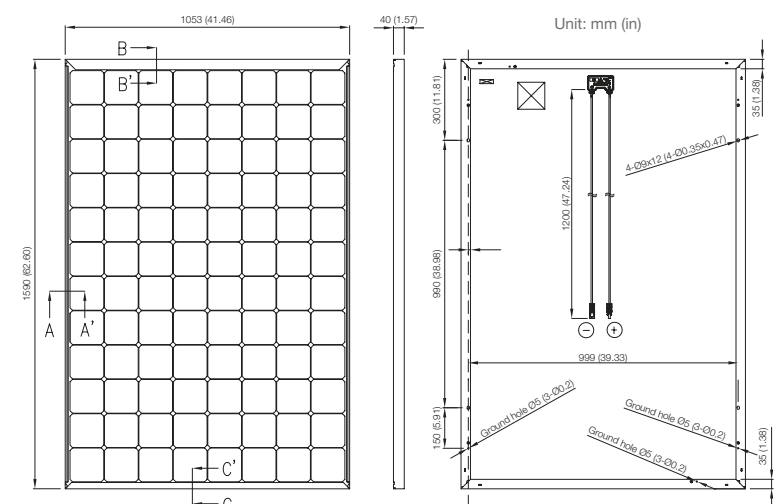
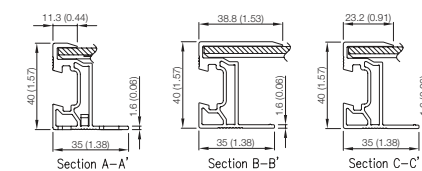
Model	SC315B2	SC310B2
Max Power (W)	234.6	230.7
Max Power Voltage, V _{MP} (V)	53.6	53.3
Max Power Current, I _{MP} (A)	4.37	4.33
Open Circuit Voltage, V _{OC} (V)	65.7	65.4
Short Circuit Current, I _{SC} (A)	4.70	4.66

AT LOW IRRADIANCE (20%)

Model	SC315B2	SC310B2
Max Power (W)	59.7	58.6
Max Power Voltage, V _{MP} (V)	55.7	55.2
Max Power Current, I _{MP} (A)	1.07	1.06
Open Circuit Voltage, V _{OC} (V)	65.4	65.0
Short Circuit Current, I _{SC} (A)	1.17	1.16

MECHANICAL DATA

Weight	19.5kg (42.99 lbs)
Dimensions	1590 mm (62.60") / 1053 mm (41.46") / 40 mm (1.57")
Connector	MC4
Frame Color	Black
Wind and Snow Load	2400 Pa (50 lbs/ft ²)
Fire Type	UL 1703 Type 2



Electronic Record and Signature Disclosure



Certificate Of Completion

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Status: Completed

Subject: Tesla 20190806_11270754_Customer-Layout

Start Date:

Primary Applicant:

Source Envelope:

Document Pages: 6

Signatures: 0

Envelope Originator:

Certificate Pages: 4

Initials: 0

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Palo Alto, CA 94304

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Jacob Namkoong

wan2rang@gmail.com

Security Level:

secure.solarcity.com.None

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Signature

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Envelope Summary Events

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Timestamps

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