DOCKET NO.	SP	60548	, SUB <sup>0</sup>
Filing Fee Ter	nder	ed \$	

#### 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 <a href="https://www.ncuc.net">www.ncuc.net</a> 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

Exhib	oits required by Rule R8-65(g)	Applicant's Response
(1)(i)	Full and correct name of the owner of the facility	Maria Gonzalez Moreno
	Facility name	Residential Home
	Business address	4024 Scofield Dr, Raleigh, NC 27610
	E-mail address	lenisgmoreno72@gmail.com
	Telephone number	(919) 539-1803
(ii)	The owner is (check one)	<ul><li>✓ Individual</li><li>☐ Partnership</li><li>☐ Corporation</li></ul>
	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)	

	1	
	Owner's agent for purposes of this report, if applicable:	Sean Hayes - Palmetto Clean Technology, Inc
	Agent's business address	997 Morrison Drive Suite 200, Charleston, SC 29403
	Agent's e-mail address	nc.interconnection@palmetto.com
	Agent's telephone number	(855) 339-1831
(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	Maria Gonzalez Moreno
(2)(i)	site in relation to local highway known local landmarks with the on the map or photo, including distribution system, startup equipipelines, planned and existing planned and existing electric facerial photo map prepared via that www.gis.ncdcr.gov/hpoweb/)	to showing the location of the generating facility s, streets, rivers, streams, and other generally proposed location of major equipment indicated the generator, fuel handling equipment, plant pment, the site boundary, planned and existing roads, planned and existing water supplies, and acilities; A U.S. Geological Survey map or an le State's geographic information system (found is preferred.
(ii)	E911 street address of the proposed facility	4024 Scofield Dr, Raleigh, NC 27610
	County in which the proposed facility will be physically located	Wake
	GPS coordinates of the approximate center of the proposed facility site to the nearest second or one thousandth of a degree	35.7289387, -78.5611536
(3)(i)	The nature of the facility, including its technology, and the source of its power and fuel(s)	Residential solar photovoltaic panels to be installed at the location. Net metering project.
(ii)	A description of the buildings, structures and equipment comprising the generating facility and the manner of its operation	Rooftop; Equipment specification sheets follow this RPC.
(iii)	The gross and net projected maximum dependable capacity of the facility in megawatts – Alternating Current	.0038 megawatts ( 3.8 kW )

	The facility's nameplate capacity in megawatts – Alternating Current	.0038 megawatts ( 3.8 kW )
(iv)	The projected date on which the facility will come on line	08/04/2023
(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	Duke Energy Net Metering
(vi)	Any provisions for wheeling of the electricity, if applicable	N/A
(vii)	Arrangements for firm, non- firm, or emergency generation, if applicable	N/A
(viii)	The service life of the project	20 years
(ix)	The projected annual sales in kilowatt-hours	4,355
(x)		o produce renewable energy certificates that are State's renewable energy and energy efficiency
(4)	The expected cost of the proposed facility	\$ 18,742

### 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.

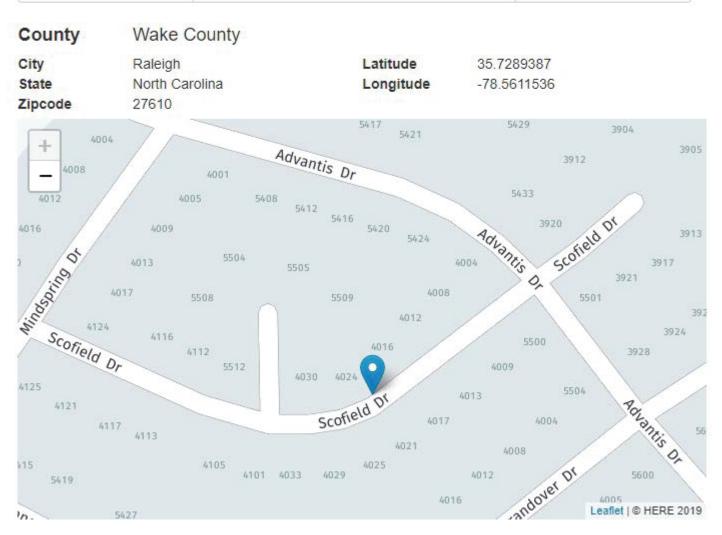
All reports shall be signed and verified (notarized) by the applicant or by an individual duly authorized to act on behalf of the applicant for the purpose of the report. A blank verification page is attached below:

#### **VERIFICATION**

STATE OF	FLORIDA	COUNTY O	FMI	AMI-DADE	· · · · · · · · · · · · · · · · · · ·
Signature of O	wner's Representative of	or Agent		AL VICE PRES	
	SEAN HAYES ed Name of Representa	tive or Agent			
sworn, says tha	med person personally at the facts stated in the reto attached are true a	foregoing repo	rt and any e		
WITNESS my l	hand and notarial seal,	this <u>7</u> day	of JUN	IE, 20 <u>23</u> .	
	Му	Commission Ex	pires:	12/11/2026	)
P	D				
Signature of No	otary Public			ry Public State of Florida Daniel Ribe Commission HH 333563	P
DAN	IIEL RIBE			Expires 12/11/2026	1
	y Public – Typed or Prir	 nted			

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.

#### This is the closest county to the point you clicked on the map





# VSUN405-108BMH

405W Highest power output

20.74%

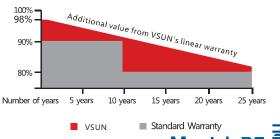
Module efficiency

# 12<sub>years</sub>

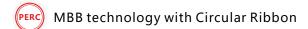
Material & Workmanship warranty

# 30 years

Linear power output warranty













VSUN405-108BMH VSUN395-108BMH VSUN400-108BMH VSUN390-108BMH





Micro Gap



Up to 30% extra power generation yield from the back side



Certified for salt/ammonia corrosion resistance



Load certificates: wind to 2400Pa and snow to 5400Pa



Lower LCOE

VSUN, a BNEF Tier-1 PV module manufacturer invested by Fuji Solar, has been committed to providing greener, cleaner and more intelligent renewable energy solutions. VSUN is dedicated to bringing reliable, customized and high-efficient products into various markets and customers worldwide















#### **Electrical Characteristics at Standard Test Conditions(STC)**

Module Type	VSUN405-108BMH VSUN400-108BMH		VSUN395-108BMH	VSUN390-108BMH	
Maximum Power - Pmax (W)	405	400	395	390	
Open Circuit Voltage - Voc (V)	37.36	37.2	37.03	36.84	
Short Circuit Current - Isc (A)	13.78	13.68	13.59	13.5	
Maximum Power Voltage - Vmpp (V)	31.36	31.17	31	30.82	
Maximum Power Current - Impp (A)	12.92	12.84	12.75	12.66	
Module Efficiency	20.74%	20.48%	20.23%	19.97%	

Standard Test Conditions (STC): irradiance 1,000 W/m²; AM 1,5; module temperature 25°C. Pmax Sorting: 0~5W. Measuring Tolerance: ±3%.

Remark: Electrical data do not refer to a single module and they are not part of the offer. They only serve for comparison among different module types.

#### Electrical Characteristics with different rear side power gain(reference to 400 front)

Pmax (W)	Voc (V)	Isc (A)	Vmpp (V)	Impp (A)	Pmax gain
420	37.1	14.36	31.17	13.48	5%
440	37.1	15.05	31.17	14.12	10%
479	37.2	16.42	31.12	15.41	20%
499	37.2	17 10	31 12	16.05	25%

#### **Temperature Characteristics**

#### NOCT $45^{\circ}\text{C}(\pm 2^{\circ}\text{C})$ Maximum System Voltage [V] 1500 Voltage Temperature Coefficient $-0.27\%/^{\circ}\text{C}$ Series Fuse Rating [A] 30 Current Temperature Coefficient $+0.048\%/^{\circ}\text{C}$ Bifaciality $70\%\pm10\%$ Power Temperature Coefficient $-0.32\%/^{\circ}\text{C}$

**Maximum Ratings** 

#### **Material Characteristics**

Dimensions 1722×1134×30mm (L×W×H

Weight 21.4kg

Frame Black anodized aluminum profile
Front Glass White toughened safety glass, 3.2 mm
Cell Encapsulation EVA (Ethylene-Vinyl-Acetate) or POE
Back Sheet Transparent black-mesh backsheet

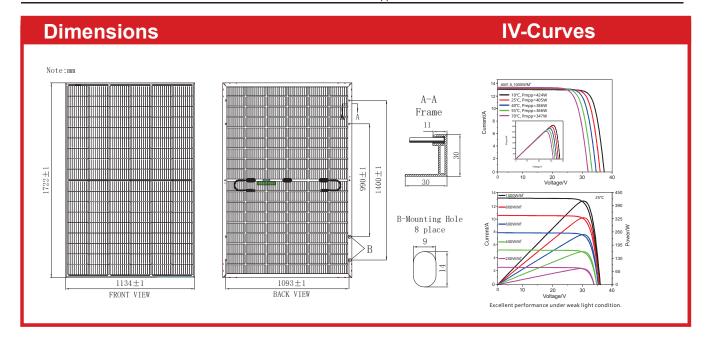
Cells 12×9 pieces monocrystalline solar cells series strings

Junction Box IP68, 3 diodes

Cable&Connector Potrait: 500 mm (cable length can be customized , 1×4 mm2, compatible with MC4

## Packaging System Design

Dimensions(L×W×H)	1760×1125×1253mm	Temperature Range	-40 °C to + 85 °C
Container 20'	216	Withstanding Hail	Maximum diameter of 25 mm with
Container 40'	468		impact speed of 23 m/s
Container 40'HC	936	Maximum Surface Load	5,400 Pa
		Application class	class A



NVERTE

# 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 99% weighted efficiency
- Quick and easy inverter commissioning directly from a smartphone using the SolarEdge SetApp
- Fixed voltage inverter for longer strings
- Integrated arc fault protection and rapid shutdown for NEC 2014, NEC 2017 and NEC 2020 per article 690.11 and 690.12

- UL1741 SA certified, for CPUC Rule 21 grid compliance
- Small, lightweight, and easy to install both outdoors or indoors
- Built-in module-level monitoring
- Optional: Faster installations with built-in consumption metering (1% accuracy) and production revenue grade metering (0.5% accuracy, ANSI C12.20)



# Single Phase Inverter with HD-Wave Technology for North America

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

MODEL NUMBER	SE3000H-US	SE3800H-US	SE5000H-US	SE6000H-US	SE7600H-US	SE10000H-US	SE11400H-US	
APPLICABLE TO INVERTERS WITH PART NUMBER	SEXXXXH-XXXXBXX4							
OUTPUT	<b>'</b>							
Rated AC Power Output	3000	3800 @ 240V 3300 @ 208V	5000	6000 @ 240V 5000 @ 208V	7600	10000	11400 @ 240V 10000 @ 208V	VA
Maximum AC Power Output	3000	3800 @ 240V 3300 @ 208V	5000	6000 @ 240V 5000 @ 208V	7600	10000	11400 @ 240V 10000 @ 208V	VA
AC Output Voltage MinNomMax. (211 - 240 - 264)	✓	✓	✓	✓	✓	✓	✓	Vac
AC Output Voltage MinNomMax. (183 - 208 - 229)	-	✓	-	✓	-	-	<b>√</b>	Vac
AC Frequency (Nominal)				59.3 - 60 - 60.5 <sup>(1)</sup>				Hz
Maximum Continuous Output Current @240V	12.5	16	21	25	32	42	47.5	А
Maximum Continuous Output Current @208V	-	16	-	24	-	-	48.5	А
Power Factor			1	l, Adjustable - 0.85 to	0.85			
GFDI Threshold				1				А
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	-	-	15500	W
Transformer-less, Ungrounded				Yes				
Maximum Input Voltage				480				Vdc
Nominal DC Input Voltage		3	380			400		Vdc
Maximum Input Current @240V <sup>(2)</sup>	8.5	10.5	13.5	16.5	20	27	30.5	Adc
Maximum Input Current @208V <sup>(2)</sup>	-	9	-	13.5	-	-	27	Adc
Max. Input Short Circuit Current				45				Adc
Reverse-Polarity Protection				Yes				
Ground-Fault Isolation Detection				600kΩ Sensitivity				
Maximum Inverter Efficiency	99			Ğ	99.2			%
CEC Weighted Efficiency		99 @ 240V 99 98.5 @ 208V					%	
Nighttime Power Consumption		< 2.5					W	

<sup>(1)</sup> For other regional settings please contact SolarEdge support

<sup>(2)</sup> A higher current source may be used; the inverter will limit its input current to the values stated

# Single Phase Inverter with HD-Wave Technology

## for North America

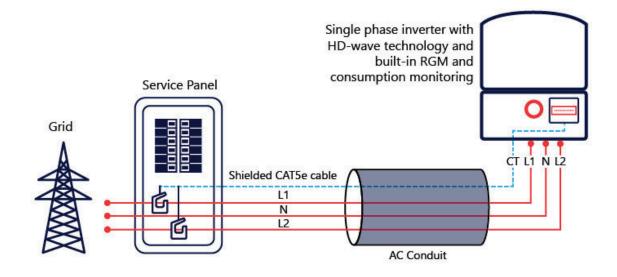
SE3000H-US / SE3800H-US / SE5000H-US / SE6000H-US/ SE7600H-US / SE10000H-US / SE11400H-US

MODEL NUMBER	SE3000H-US	SE3800H-US	SE5000H-US	SE6000H-US	SE7600H-US	SE10000H-US	SE11400H-US		
ADDITIONAL FEATURES			•	•	<u>'</u>	•	<u>'</u>	•	
Supported Communication Interfaces		RS485, Ethernet, ZigBee (optional), Cellular (optional)							
Revenue Grade Metering, ANSI C12.20				O-+i1(2)					
Consumption metering				Optional <sup>(3)</sup>					
Inverter Commissioning		With the SetAp	op mobile application	n using Built-in Wi-Fi	Access Point for Lo	cal Connection			
Rapid Shutdown - NEC 2014, NEC 2017 and NEC 2020, 690.12			Automatic Rapid	Shutdown upon AC	Grid Disconnect				
STANDARD COMPLIANCE									
Safety		UL1741, U	L1741 SA, UL1699B, (	SA C22.2, Canadian	AFCI according to	T.I.L. M-07			
Grid Connection Standards			IEEE1	1547, Rule 21, Rule 14	(HI)				
Emissions				FCC Part 15 Class B					
INSTALLATION SPECIFICAT	IONS								
AC Output Conduit Size / AWG Range		1"	Maximum / 14-6 AV	VG		1" Maximum	/14-4 AWG		
DC Input Conduit Size / # of Strings / AWG Range		1" Maxir	num / 1-2 strings / 14	1-6 AWG		1" Maximum / 1-3	strings / 14-6 AWG		
Dimensions with Safety Switch (HxWxD)		17.7 x	14.6 x 6.8 / 450 x 37	0 x 174		21.3 x 14.6 x 7.3 /	′ 540 x 370 x 185	in / mm	
Weight with Safety Switch	22 ,	22 / 10 25.1 / 11.4 26.2 / 11.9 38.8 / 17.6						lb/kg	
Noise		<	25			<50		dBA	
Cooling				Natural Convection					
Operating Temperature Range	-40 to +140 / -40 to +60 <sup>(4)</sup>						°F/°C		
Protection Rating		NEMA 4X (Inverter with Safety Switch)							

<sup>(3)</sup> Inverter with Revenue Grade Meter P/N: SExxxxH-US000BNC4; Inverter with Revenue Grade Production and Consumption Meter P/N: SExxxxH-US000BNI4 . For consumption metering, current transformers should be ordered separately: SEACT0750-200NA-20 or SEACT0750-400NA-20. 20 units per box

## **How to Enable Consumption Monitoring**

By simply wiring current transformers through the inverter's existing AC conduits and connecting them to the service panel, homeowners will gain full insight into their household energy usage helping them to avoid high electricity bills



<sup>(4)</sup> Full power up to at least 50°C / 122°F; for power de-rating information refer to: https://www.solaredge.com/sites/default/files/se-temperature-derating-note-na.pdf