Case No. 17-1061-EL-REN Cohen-Clifford-PA-PV-9.0kW Residence Staff Interrogatories – Initial Set

Question 1:

In Section N of the application, you have submitted the following:

 N.a The meter(s) that are measuring output from the facility are: No Inverter Meter(s)
Yes Utility Grade Meter(s) (Must meet ANSI 12.1, or demonstrate an accuracy level of ± 2%)

Also, in Section N.1 of the facility you have submitted the following:

N.1 Please provide the following information for each meter used in your system.
N.1.a Manufacturer: Solar Edge
N.1.b Serial Number: 7F1591C7-EC
N.1.c Type: SE10000
N.1.d Date of Last Certification: February 16, 2017

Attach a photograph of the meter(s) with date image taken. The meter reading(s) must be clearly visible in the photograph.

N.1.e Report the total meter reading number at the time the photograph was taken and specify the appropriate unit of generation (e.g., kWh): 1390kWh

1a.Please provide a photograph of the actual meter where details such as the manufacturer, serial number, type and meter reading number are clearly visible. Indicate the date on which the photograph was taken.

Answer 1a.:





1b. According to Ohio Rules OAC 4901:1-40-04 (D)(1) & OAC 4901:1-10-05(B), customers seeking certification as 'Eligible Ohio Renewable Resource Generating Facility' for systems larger than 6kW, must measure such system's gross output using a utility grade meter (*Must meet ANSI 12.1, or demonstrate an accuracy level of* \pm 2%). Since the nameplate capacity for this facility that is submitted in Section I is larger than 6kW, please clarify whether the Solar Edge meter submitted in Section N is an inverter meter or a utility grade meter. If needed, provide additional information and photographs to supplement your answer.

Answer 1b.:

This inverter has an integrated revenue grade meter. Please find the specification sheet below. Please see the final bullet on the first page.



SolarEdge Single Phase Inverters

For North America

SE3000A-US / SE3800A-US / SE5000A-US / SE6000A-US / SE7600A-US / SE10000A-US / SE11400A-US



The best choice for SolarEdge enabled systems

- Specifically designed to work with power optimizers
- Integrated arc fault protection for NEC 2011 690.11 compliance
- Rapid shutdown for NEC 2014 690.12
- Superior efficiency (98%)
- Small, lightweight and easy to install on provided bracket
- Built-in module-level monitoring
- Internet connection through Ethernet or Wireless
- Outdoor and indoor installation
- Fixed voltage inverter, DC/AC conversion only
- Pre-assembled Safety Switch for faster installation
- Optional revenue grade data, ANSI C12.20

solaredge

Single Phase Inverters for North America

SE3000A-US / SE3800A-US / SE5000A-US / SE6000A-US / SE7600A-US / SE10000A-US / SE11400A-US

	SE3000A-US	SE3800A-US	SE5000A-US	SE6000A-US	SE7600A-US	SE10000A- US	SE11400A-US	
OUTPUT								
Nominal AC Power Output	3000	3800	5000	6000	7600	9980 @ 208V 10000 @240V	11400	VA
Max. AC Power Output	3300	4150	5400 @ 208V 5450 @240V	6000	8350	10800 @ 208V 10950 @240V	12000	VA
AC Output Voltage MinNomMax. ⁽¹⁾ 183 - 208 - 229 Vac	-	-	1	-	-	1	-	
AC Output Voltage MinNomMax. ⁽¹⁾ 211 - 240 - 264 Vac	1	1	1	5	1	1	1	
AC Frequency MinNomMax. ⁽¹⁾	59.3 - 60 - 60.5							Hz
Max. Continuous Output Current	12.5	16	24 @ 208V 21 @ 240V	25	32	48 @ 208V 42 @ 240V	47.5	Α
GFDI Threshold Utility Monitoring, Islanding Protection	1 , Country Configurable Thresholds Yes							A Yes
INPUT		0						1
Maximum DC Power (STC)	4050	5100	6750	8100	10250	13500	15350	W
Transformer-less, Ungrounded	Yes							
Max. Input Voltage	500							Vdc
Nom. DC Input Voltage	325 @ 208V / 350 @ 240V							Vdc
Max. Input Current ⁽²⁾	9.5	13	16.5 @ 208V 15.5 @ 240V	18	23	33 @ 208V 30.5 @ 240V	34.5	Adc
Max. Input Short Circuit Current	45							Adc
Reverse-Polarity Protection	Yes							
Ground-Fault Isolation Detection				600k _Ω Sensitiv	ity			
Maximum Inverter Efficiency	97.7	98.2	98.3	98.3	98	98	98	%
CEC Weighted Efficiency	97.5	98	97 @ 208V 98 @ 240V	97.5	97.5	97 @ 208V 97.5 @ 240V	97.5	%
Nighttime Power Consumption	< 2.5 < 4							W
ADDITIONAL FEATURES	1							1
Supported Communication Interfaces	RS485, RS232, Ethernet, ZigBee (optional)							
Revenue Grade Data, ANSI C12.20	Optional ⁽³⁾							
Rapid Shutdown – NEC 2014 690.12	Yes							
STANDARD COMPLIANCE								
Safety	UL1741, UL1741 SA, UL1699B, UL1998 , CSA 22.2							
Grid Connection Standards	IEEE1547							
Emissions	FCC part15 class B							
INSTALLATION SPECIFICATIONS						I		
AC output conduit size / AWG range	3/4" minimum / 16-6 AWG 3/4" minimum / 8-3 AWG							
DC input conduit size / # of strings / AWG range	3/4" minimum / 1-2 strings / 16-6 AWG 14-6						n / 1-3 strings / AWG	
Dimensions with Safety Switch	30.5 x 12.5 x 7.2 / 775 x 315 x 184 30.5 x 12.5 x 10.5 /							in /
(HxWxD)	1						15 x 260	mm h /ka
weight with safety switch	51.2 / 25.2 54.7 / 24.7 Natural						/ 40.1	ID / Kg
Cooling	Natural Convection				convection and internal fan (user replaceable)	Fans (user replaceable)		
Noise	< 25 < 50							dBA
MinMax. Operating Temperature Range	-13 to +140 / -25 to +60 (-40 to +60 version available ⁽⁴⁾)							°F/°C
Protection Rating				NEMA 3R			•••••	1
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For other regional settings please contact SolarEdge support.
A higher current source may be used; the inverter will limit its input current to the values stated.
Revenue grade inverter P/N: SExxxxA-US000NNUC2.
-40 version P/N: SExxxxA-US000NNU4 (for 7600W inverter:SE7600A-US002NNU4).



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Summary: Reply reply to staff interrogetories electronically filed by Mr. Avery Sellers on behalf of Clifford Cohen