Test Verification of Conformity

Verification Number: 105405506CRT-001VOC

On the basis of the tests undertaken, the samples of the below product have been found to comply with the requirements of the referenced standards at the time the tests were carried out. This verification is part of the full test report and should be read in conjunction with it.

Applicant Name & Address:	SolarEdge Technologies Ltd. 1 HaMada Street, 4673335 Herzliya, Israel
Product Description:	Grid Support Utility Interactive Inverter – Non-Isolated Photovoltaic Inverter with MPPT function, Rapid shut down Function, Arc Fault Protection, Standalone application, and with embedded Supplemental Power Control System
Specifications:	See Appendix 2
Models/Type References:	SE3000H-US, SE3800H-US, SE5000H-US, SE5700H-US, SE6000H-US, SE7600H-US, SE9600H-US, SE10000H-US, and SE11400H-US
Brand Names:	SolarEdge
Relevant Standard(s) / Specification(s):	See Appendix 1 and 2.
Verification Issuing Office Name & Address:	Intertek Testing Services NA, Inc. 3933 US Route 11, Cortland, NY 13045 USA
Date of Tests:	Jun-22-2025
Test Report Number(s):	102144760CRT-001e, 104456146CRT-001, 104318331CRT-001, 105405506CRT-001VOC, 103526147CRT-003a

Additional information in Appendix.

Signature 

Name: Mukund Rana

Position: Sr. Staff Engineer

Initial Issue Date: 13th Jun 2025 4**; Revision Date:** Jul-29-2025

Appendix 1: Relevant Standard(s)/Specification(s)

Inverters, Converters, Controllers and Interconnection System Equipment for use with Distributed Energy Resources [UL 1741:2021 Ed.3]

UL 1741 ed 3 3rd Edition CRD on Power Control Systems (PCS) - April 8, 2023

Appendix 2: Specifications

Critical Component with its Rating:

Item no.	Name	Manufacturer/ trademark	Type / model	Technical data and securement means	Mark(s) of conformity
1	CT external*	SolarEdge	SECT-S1	225A, 0-333mV, 50-60Hz, Accuracy: 1 %, split core clamp design., -40to 140 °F Temp range, Accuracy: sub 1% (SE CT 0.5% CT)	ETL
		JIANGYIN SPARK ELECTRONIC TECHNOLOGY CO LTD	XH-SCT-S24	Max 300A, 0-0.333V, 50-60Hz, Accuracy: 1 %, split core clamp design., -20 to 80°C Temp range, Accuracy: ±0.5% from 1% to 130% of rated current	UL
2	Inverters*	SolarEdge	SE3000H-US	DC Rating: 270 to 480 VDC; 31Adc AC Grid support inverter Rating: 3000W/2600W**; 240/208**Vac; 12.5Aac, 60 Hz AC Standalone inverter Rating: Up to 12500W; 240Vac; 52Aac, 60 Hz	cETLus
			SE3800H-US	DC Rating: 270 to 480 VDC; 31Adc AC Grid support inverter Rating: 3800W/3300W**; 240/208** Vac; 16Aac, 60 Hz AC Standalone inverter Rating: Up to 12500W; 240Vac; 52Aac, 60 Hz	
			SE5000H-US	DC Rating: 270 to 480 VDC; 31Adc AC Grid support inverter Rating: 5000W/4300W**; 240/208**Vac; 21Aac, 60 Hz AC Standalone inverter Rating: Up to 12500W; 240Vac; 52Aac, 60 Hz	
			SE5700H-US	DC Rating: 270 to 480 VDC; 31Adc AC Grid support inverter Rating: 5760W/5000W**; 240/208**Vac; 24Aac, 60 Hz AC Standalone inverter Rating: Up to 12500W; 240Vac; 52Aac, 60 Hz	
			SE6000H-US	DC Rating: 270 to 480 VDC; 31Adc AC Grid support inverter Rating: 6000W/5200W**; 240/208**Vac; 25Aac, 60 Hz AC Standalone inverter Rating: Up to 12500; 240Vac; 52Aac, 60 Hz	
			SE7600H-US	DC Rating: 270 to 480 VDC; 31Adc AC Grid support inverter Rating: 7600W/6600W**; 240/208**Vac; 32Aac, 60 Hz AC Standalone inverter Rating: Up to 12500; 240Vac; 52Aac, 60 Hz	

Item no.	Name	Manufacturer/ trademark	Type / model	Technical data and securement means	Mark(s) of conformity
			SE9600H-US	DC Rating: 270 to 480 VDC; 31Adc AC Grid support inverter Rating: 9600W/8300W**; 240/208**Vac; 40Aac, 60 Hz AC Standalone inverter Rating: Up to 12500; 240Vac; 52Aac, 60 Hz	
			SE10000H-US	DC Rating: 270 to 480 VDC; 31Adc AC Grid support inverter Rating: 10000W/8700W**; 240/208**Vac; 42Aac, 60 Hz AC Standalone inverter Rating: Up to 12500; 240Vac; 52Aac, 60 Hz	
			SE11400H-US	DC Rating: 270 to 480 VDC; 31Adc AC Grid support inverter Rating: 11400W/10000W**; 240/208** Vac; 47.8Aac, 60 Hz AC Standalone inverter Rating: Up to 12500; 240Vac; 52Aac, 60 Hz	
3	Back up Interface*	SolarEdge	Bi-N	Voltage Min-Nom-Max: 211Vac - 240Vac - 264Vac AC Single Phase Nominal Frequency: 60Hz Max grid current: 200Aac Max service panel output current: 200Aac Max Continuous Inverter Input Current (per inverter): 48Aac Max Continuous Generator Input Current: 94Aac Non-Service Entrance unit	cETLus
			Bi-E	Voltage Min-Nom-Max: 211Vac - 240Vac - 264Vac AC Single Phase Nominal Frequency: 60Hz Max grid current: 200Aac Max service panel output current: 200Aac Max Continuous Inverter Input Current (per inverter): 48Aac Max Continuous Generator Input Current: 94Aac Max supply fault current: 10kAac Service Entrance unit	
Note	(*) Any 'type/model' can be used. (**) Corresponding rating with same mark due to multiple rating. (208V rating)				

- **PCS Busbar Current Control Feature:**

Sr. No.	Model	Maximum Output Current (A) (PCS Limit)
1	SE3000H-US	12.5
2	SE3800H-US	16
3	SE5000H-US	21 @ 208V, 21 @ 240V
4	SE5700H-US	24

Sr. No.	Model	Maximum Output Current (A) (PCS Limit)
5	SE6000H-US	25 @ 208V 25 @ 240V
6	SE7600H-US	32
7	SE9600H-US	40
8	SE10000H-US	42
9	SE11400H-US	47.8 @ 208V 47.8 @ 240V
10	Multi Inverters	Any model combination from Sr. No. 1-9, may be connected in parallel. Maximum of 3 inverters. Refer rating from line item 1 to 9 individual inverter rating. Note: When 2 or more inverters are used, Backup Interface is required to be part of the PCS system.

- **Inverter Firmware Version:**

Version	Checksum
2.100.1302	0x94D2827A
2.0.1305	0xDDF8

Appendix 3: Application Description

Application	Standard Sections	Description
Export Only Mode (Single or Multi Inverter)	201; 203.5; 203.6; 205-209; 204.1	CRD section 204.2.3 b) The ESS (EUT) is evaluated Export only mode. So, EUT will not import active power from the Area EPS for ESS charging purposes. 1. Open Loop Response Time (OLRT) recorded was 1.0 sec. 2. Maximum Open Loop Response Time (MOLRT) recorded was 1.0 sec. 3. The Settling Time recorded was 1.0 sec.
Control of the output of a power production source to limit current and loading on a busbar to satisfy NEC 705.13 (Single Inverter)	201; 203.5; 203.6; 205-209; 204.1	Supplemental PCS overcurrent protection used to limit inverter output current to an external reference point. Input from the utility source is monitored while the inverter output current is monitored and controlled not to exceed the ampacity rating of the busbar during changes in load or generation. Inverter input current may be derived from both PV and ESS DC sources. 1. Maximum Open Loop Response Time

Application	Standard Sections	Description
		(MOLRT) recorded was 12.75 Sec. 2. The Settling Time recorded was 12.75 sec.
Control of the output of a power production source to limit current to an external reference point. California Electric Rule 21 Electric Schedule NEM2 (Single Inverter)	201; 203.5; 203.6; 205-209; 204.1	PCS export limit used to limit the DER output to Zero export to the area EPS. 1. Open Loop Response Time (OLTR) recorded was 2.0 sec. 2. Maximum Open Loop Response Time (MOLRT)recorded was 2.0 sec. 3. The Settling Time recorded was 2.0 sec.
Control of the output of a power production source to limit current and loading on a busbar to satisfy NEC 705.13 (Multi Inverter)	201; 203.5; 203.6; 205-209; 204.1	Supplemental PCS overcurrent protection used to limit inverter output current to an external reference point. Input from the utility source is monitored while the inverter output current is monitored and controlled not to exceed the ampacity rating of the busbar during changes in load or generation. Inverter input current may be derived from both PV and ESS DC sources. 1. Maximum Open Loop Response Time (MOLRT)recorded was 17.0 sec. 2. The Settling Time recorded was 17.0 sec.

Appendix 4: Revision Summary

Date / Project	Engineer / Reviewer	Descriptions
May-28-2024 G105788285	Mukund Rana Lixin Ma	Updated Inverter Firmware Version. Version is changed from '2.100.1204' to '2.100.1302 and 2.0.1305'. Checksum is updated from '0xFC5866C9' to '0x94D2827A' and '0x94D2827A' Updated Appendix 3 standard section to 204.1
22-July-2024 G105881387	Mili Sehgal Aditya Iyer	Updated inverter models From: "SE3000H-US, SE3800H-US, SE5000H-US, SE5700H-US, SE6000H-US, SE7600H-US, SE10000H-US, and SE11400H-US" To: "SE3000H-US, SE3800H-US, SE5000H-US, SE5700H-US, SE6000H-US, SE7600H-US, SE9600H-US, SE10000H-US, and SE11400H-US"
		Added an alternate inverter model "SE9600H-US to Appendix-2 Critical Component with its Rating table "9600W, 240V_{AC}, 60Hz, 40/48 A_{AC}"
		Added inverter model "SE9600H-US" in PCS Busbar Current Control Feature table of Appendix-2
Mar-18-2025 G106099441	Mukund Rana Lixin Ma	Added old VOC and merged into this VOC to avoid managing multiple VOC. Refer Report 104318331CRT-001. Added CT as an alternate component from manufacturer "JIANGYIN SPARK ELECTRONIC TECHNOLOGY CO LTD" with model *"XH-SCT-S24".*
Mar-25-2025 G106099441	Mukund Rana Lixin Ma	Added Response time and the settling time in the Appendix 3 for all the applications.
Jun-25-2025 G105897648	Mukund Rana Lixin Ma	Added note in Appendix 2. (*) Either Component can be used.
Jul-29-2025 G105897648	Mukund Rana  Lixin Ma 	Added note in Appendix 2 table for better clarification. Note is '(*) Either CT can be used.' Added test results for Multi inverter configuration. Modified single inverter ratings as per listing report that was modified recently for some new configuration to keep all rating aligned with the listing report.

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