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, 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:	10/08/2023 to 11/30/2023
Test Report Number(s):	102144760CRT-001e, 104456146CRT-001

Additional information in Appendix.

Signature

Name: Mukund Rana
Position: Sr. Staff Engineer
Date: 4th Jan 2024

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
2	Inverters	SolarEdge	SE3000H-US	3000W, 240V_{AC}, 60HZ, 12.5A_{AC}	cETLus
			SE3800H-US	3800W, 240/208V_{AC}, 60HZ, 16A_{AC}	
			SE5000H-US	5000W, 240/208V_{AC}, 60HZ, 21/24A_{AC}	
			SE5700H-US	5700W, 240/208V_{AC}, 60HZ, 24A_{AC}	
			SE6000H-US	6000W, 240/208V_{AC}, 60HZ, 24/25A_{AC}	
			SE7600H-US	7600W, 240V_{AC}, 60HZ, 32A_{AC}	
			SE10000H-US	10000W, 240/208V_{AC}, 60HZ, 42/48.5A_{AC}	
			SE11400H-US	11400W, 240/208V_{AC}, 60HZ, 47.5/48.5A_{AC}	

- **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	24 @ 208V, 21 @ 240V
4	SE5700H-US	24
5	SE6000H-US	24 @ 208V 25 @ 240V
6	SE7600H-US	32
7	SE10000H-US	42
8	SE11400H-US	48.5 @ 208V 47.5 @ 240V

- **Inverter Firmware Version:**

Version	Checksum
2.100.1204	0xFC5866C9

Appendix 3: Application Description

Application	Standard Sections	Description
Control of the output of a power production source to limit current and loading on a busbar to satisfy NEC 705.13	201; 203.5; 203.6; 205-209; Custom – Step change in Load on Busbar overcurrent limit test	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.

Appendix 4: Revision Summary

Date / Project	Engineer / Reviewer	Comments
		None

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