

Listing#: E113907  
 Report #: 108420 c1 114701  
 Original Certification Date: July 1, 2021  
 Revised Certification Date: October 14, 2021



This Certification is issued to:  
 Sicon S.r.l. (trademark SOCOMEC)  
 Via Sila, 1/3  
 36033 – Isola Vicentina (VI)  
 Italy

Stating that the product(s):  
 STORAGE INVERTER  
 SUN-HES-L-380U (cabinet),  
 SUN-HES-L-480 (cabinet),  
 SUN-HES-MOD50 (Power module)  
 (assembled as SUN-HES-L-480 and 1÷6 x SUN-HES-MOD50,  
 SUN-HES-L-380U and 1÷6 x SUN-HES-MOD50)

**Product Rating(s):**

Number of power modules	1	2	3	4	5	6
Power rating	50kVA	100kVA	150kVA	200kVA	250kVA	300kVA
DC voltage	570÷860 V <sub>DC</sub>					
Frequency	55÷65 Hz					
<b>480 V<sub>AC</sub> / 60 Hz (with autotransformer)</b>						
Maximum DC current	87 A <sub>DC</sub>	174 A <sub>DC</sub>	261 A <sub>DC</sub>	348 A <sub>DC</sub>	435 A <sub>DC</sub>	522 A <sub>DC</sub>
AC voltage	480 V <sub>AC</sub> ± 20% (3ph+N)					
Rated AC current	76 A <sub>RMS</sub>	120 A <sub>RMS</sub>	180 A <sub>RMS</sub>	241 A <sub>RMS</sub>	301 A <sub>RMS</sub>	361 A <sub>RMS</sub>
<b>380 V<sub>AC</sub> / 60 Hz (without autotransformer)</b>						
Maximum DC current	86 A <sub>DC</sub>	173 A <sub>DC</sub>	259 A <sub>DC</sub>	346 A <sub>DC</sub>	432 A <sub>DC</sub>	519 A <sub>DC</sub>
AC voltage	380 V <sub>AC</sub> ± 20% (3ph)					
Rated AC current	76 A <sub>RMS</sub>	152 A <sub>RMS</sub>	228 A <sub>RMS</sub>	304 A <sub>RMS</sub>	380 A <sub>RMS</sub>	456 A <sub>RMS</sub>

Achieved Certification to the following standard(s):

UL 1741 2nd Edition: Inverters, Converters, Controllers and Interconnection System Equipment for use with distributed energy resources, Rev. September 16, 2020.

UL 1741 2nd Edition Supplement SA: Inverters, Converters, Controllers and Interconnection System Equipment for Use with Distributed Energy Resources  
 Supplement SA – Grid support utility interactive equipment (including SA17 and SA18)

UL 1741 2nd Edition Supplement SB: Inverters, Converters, Controllers and Interconnection System Equipment for Use with Distributed Energy Resources  
Supplement SB – Grid support utility interactive inverters and converters based upon IEEE1547-2018 and IEEE 1547.1-2020

UL 1741 2nd Edition Certification Requirement Decision (CRD) for Power Control System (PCS) functionalities, March 8, 2019 (limited to the operating mode “Unrestricted Mode” and “Import Only Mode”)

CSA C22.2 No. 107.1-16: Power conversion equipment, June 2016

IEEE 1547 2018-02, IEEE 1547a 2020-03: IEEE Standard for Interconnection and Interoperability of Distributed Energy Resources with Associated Electric Power Systems Interfaces

IEEE 1547.1 2020-05: IEEE Standard Conformance Test Procedures for Equipment Interconnecting Distributed Energy Resources with Electric Power Systems and Associated Interfaces

California Rule 21: Generating facility interconnections, HH. Smart inverter generating facility design and operating requirements (PG&E: May 31-2018, SCE: April 08-2021, SDG&E: May 19-2021)

HECO Rule 14H - Service Connections and Facilities on Customer's Premises using the range of adjustments defined in SRD-UL1741 SA V1.1, Hawaii SRD V1.1

Hawaiian Electric's IEEE 1547.1-2020 Source Requirements Document Version 2.0 (“SRD V2.0”), implementing Grid Support Utility Interactive Inverter functions as required in HECO/MECO/HELCO Rule 14H.

- The software of grid interactive inverters and for grid interactive inverters + stand-alone options has been evaluated following UL 1998: 2013 Standard for Software in Programmable Components, all cycle of software development was traced and kept under control

Details of sw Revision

FW Description	File Name	Version
SWITCH Board	WCSW.app	1.0.0
COM Board	WCCM.app	1.0.0
GCB Board	WCGC.app	1.0.0
INV Board	WBIV.app	1.0.0
PAR Board	WCPA.app	1.0.0



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*All changes proposed in the previously identified product that affects the above information must be submitted to Eurofins for evaluation prior to implementation to assure continued NRTL Certification status. The covered product(s) shall be subject to follow-up inspections to ensure that the Certified product(s) are identical to the product sample evaluated by Eurofins E&E NA and that all responsibilities are being fulfilled as specified in the Applicants' Responsibility section of the Certification Report. The Applicant named above has been authorized Eurofins E&E NA to represent the product(s) listed in this record as "MET Certified" and to mark this/these product(s) according to the terms and conditions of the Eurofins E&E NA Applicant Contract, Listing Reports, and the applicable agreements. Only the product(s) bearing the MET Mark and under a follow-up service are considered to be included in this Certification program. This certification has been granted under a System 3 program as defined in ISO/IEC 17067.*



*Eurofins E&E North America, Inc. is accredited by OSHA and the Standards Council of Canada.*

**NRTL**