



Certificate of Compliance

Certificate: 80121733

Master Contract: 602763

Project: 80121733

Date Issued: 2022-05-05

Issued To: Alpha ESS Co., Ltd.
JiuHua Road 888,
High-Tech Industrial
Development Zone,
Nantong, Jiangsu 226300
China

Attention: Jester Li

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only



Issued by: Yuanyuan (Yolanda) Zhou
Yuanyuan (Yolanda) Zhou

PRODUCTS

CLASS - C531109 - POWER SUPPLIES Distributed Generation Power Systems Equipment

CLASS - C531189 - POWER SUPPLIES - Distributed Generation Power Systems Equipment - Certified to U.S. Standards

Bi-directional Transformerless Inverter, Model SMILE-SPB9.6-INV, SMILE-SPB7.6-INV, SMILE-SP7.6-INV, SMILE-SP9.6-INV, with PV input and Battery input, Grid Support Utility Interactive, or Stand-alone with Auto-Transformer SMILE-SP9.6-TX. Wall mounted, permanently connected.

Notes:

1. For details related to rating, size, configuration, etc., reference should be made to the CSA Certification Record, Certificate of Compliance Annex A, or the Descriptive Report.



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APPLICABLE REQUIREMENTS

- CSA-C22.2 No.107.1-16 - Power Conversion Equipment
- CSA-C22.2 No.292-18 - Dc arc fault protection for photovoltaic applications
- CSA-C22.2 No.330-17 - Photovoltaic rapid shutdown system

- *UL Std No.1741 3rd Edition - Inverters, Converters, Controllers and Interconnection System Equipment For Use With Distributed Energy Sources (Third Edition, Revision Dated September 28, 2021)
- **UL1741 CRD - Non-Isolated EPS Interactive PV Inverters Rated Less Than 30Kva (Dated April 26, 2010)
- **UL 1699B - Photovoltaic (PV) DC Arc-Fault Circuit Protection (First Edition, Dated August 22, 2018)

*Note: Conformity to UL 1741 (Third Edition, Revision Dated September 28, 2021) includes compliance with applicable requirements of IEEE 1547-2003 (R2008), IEEE 1547.1-2005(R2011), Grid support function is verified according to UL 1741 Supplement SA8-SA18 with the SRDs of California Electric Rule 21, Hawaiian Electric Co. SRD-UL-1741-SA-V1.1; and verified according to UL 1741 Supplement SB and IEEE 1547.1-2020 with the SRDs of IEEE 1547-2018, IEEE 1547a-2020 and Hawaiian Electric Co. SRD-V2.0. While the grid support function evaluated according to IEEE 1547.1-2020, the interoperability is verified with IEEE 2030.5-2018 communication protocol.

**Note: The functional safety has been evaluated according to applicable requirement of UL 1998-Edition 3 as required by the product standard.

***Note: The products have been verified with PVRSS function according to NEC-2020 Article 690.12 and CEC-2018 Sec 64-218.

MARKINGS

Each unit shall bear all the required markings identified in the applicable certification reports. Refer to Attachment 1 -Marking for detail.

Notes:

Products certified under Class C531109 have been certified under CSA's ISO/IEC 17065 accreditation with the Standards Council of Canada (SCC). www.scc.ca





Supplement to Certificate of Compliance

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*The products listed, including the latest revision described below,
are eligible to be marked in accordance with the referenced Certificate.*

Product Certification History

Project	Date	Description	Model No.	Listee Model No.
80121733	2022-05-05	Original Report 80023770	GW9600A- BP GW7600A- BP GW9600A-ES GW7600A-ES GW9600A-TX	SMILE-SPB9.6-INV SMILE-SPB7.6-INV SMILE-SP9.6-INV SMILE-SP7.6-INV SMILE-SP9.6-TX