



# Certificate of Compliance

**Certificate:** 80127112

**Master Contract:** 273488

**Project:** 80197997

**Date Issued:** 2024-02-23

**Issued to:** Ginlong Technologies Co., Ltd.  
No.57, Jintong Road, Xiangshan  
Ningbo, Zhejiang, 315712  
CHINA

**Attention:** Ruyi Pan

*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:** *Magic Zhang*  
Magic Zhang

## 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 Grid Support Utility Interactive Power Conversion Equipment, S6-EH1P(3.8-11.4)K-H-US series, include Models S6-EH1P3.8K-H-US, S6-EH1P5K-H-US, S6-EH1P6K-H-US, S6-EH1P7.6K-H-S-US, S6-EH1P7.6K-H-US, S6-EH1P8K-H-US, S6-EH1P9.9K-H-US, S6-EH1P10K-H-US and S6-EH1P11.4K-H-US, permanently connected.

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.

## APPLICABLE REQUIREMENTS

CSA-C22.2 No.107.1-16

\*UL Std No. 1741

- Power Conversion Equipment
- Inverters, Converters, Controllers and Interconnection System Equipment for Use With Distributed Energy Resources



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- (Third Edition, Dated May 19, 2023)
- \*\*UL 1699B - Photovoltaic (PV) DC Arc-Fault Circuit Protection (First Edition, Revision Dated May 18, 2021)
  - \*\*UL1741 CRD - Non-Isolated EPS Interactive PV Inverters Rated Less Than 30Kva (Dated April 26, 2010)

\*Note: Conformity to UL 1741(Third Edition, Dated May 19, 2023) includes compliance with applicable requirements of IEEE 1547-2003 (R2008), IEEE 1547a-2014, IEEE 1547.1-2005(R2011), IEEE 1547.1a-2015 for all models. Grid support function is verified according to UL 1741 Supplement SA8-SA18 with the SRDs of California Electric Rule 21, and also 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 for S6-EH1P(3.8-11.4)K-H-US series inverter. 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.

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](http://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
80197997	2024-02-23	Updated report 80127112 to add model S6-EH1P9.9K-H-US for S6-EH1P(3.8-11.4)K-H-US series inverter.
80166711	2023-08-05	Updated report 80127112 with below modifications: <ol style="list-style-type: none"><li>1. Evaluate the Grid support function to comply with UL 1741 Supplement SB according to IEEE 1547.1-2020 with SRDS IEEE 1547-2018 and IEEE 1547a-2020 requirements for S6-EH1P(3.8-11.4)K-H-US series inverter with 220Vac input/output.</li><li>2. Updated AFCI board, DC EMI board, Main board, DSP board, ARM board, Power board and AC EMI board. Add alternate materials of Disconnect Switch, PV terminal, Battery terminal, Backup terminal, Grid terminal, RSD Emergency Switch, RSS Transmitter, Y Capacitor, AC Relay, DC Relay, IGBT, Bus Capacitor, DC Transformer and Driver Transformer.</li></ol>
80166710	2023-04-28	Updated report 80127112 with below modifications: <ol style="list-style-type: none"><li>1. Change model name S6-EH1P7.6K-H-L-US to S6-EH1P7.6K-H-US and rename S6-EH1P(3.8-11.4)K-H-MEX series inverter to S6-EH1P(3.8-11.4)K-H-US series inverter with 220Vac input/output.</li><li>2. Add another enclosure construction size.</li><li>3. AFCI board updated, DC EMI board and AC EMI board updated when used in large size inverter models.</li><li>4. Add alternate materials of PV terminal, Battery terminal, Backup terminal, Grid terminal, RSD Emergency Switch and RSS Transmitter.</li></ol>
80147401	2023-02-28	Updated report 80127112 to evaluate the Grid support function to comply with HECO SRD V2.0 requirements for S6-EH1P(3.8-11.4)K-H-US series inverter, firmware number is A2.
80127113	2023-01-13	Updated report 80127112 to add S6-EH1P(3.8-11.4)K-H-US series inverter, include models S6-EH1P3.8K-H-US, S6-EH1P5K-H-US, S6-EH1P6K-H-US, S6-EH1P7.6K-H-S-US, S6-EH1P7.6K-H-L-US, S6-EH1P8K-H-US, S6-EH1P10K-H-US, S6-EH1P11.4K-H-US and evaluate the Grid support function to comply with UL 1741 Supplement SA8-SA18 with the SRDs of California Electric Rule 21 and UL 1741 Supplement SB according to IEEE 1547.1-2020 with SRDS IEEE 1547-2018 and IEEE 1547a-2020.
80127112	2022-09-20	Bi-directional Transformerless Utility Interactive Power Conversion Equipment, S6-EH1P(3.8-11.4)K-H-MEX series, include Models S6-EH1P3.8K-H-MEX, S6-EH1P5K-H-MEX, S6-EH1P6K-H-MEX, S6-EH1P7.6K-H-S-MEX, S6-



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EH1P7.6K-H-L-MEX, S6-EH1P8K-H-MEX, S6-EH1P10K-H-MEX and S6-EH1P11.4K-H-MEX. (C/US)