



Certificate of Compliance

Certificate: 80032256

Master Contract: 273488

Project: 80206689

Date Issued: 2024-08-09

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 5311 09 - POWER SUPPLIES - Distributed Generation Power Systems Equipment

CLASS 5311 89 - POWER SUPPLIES - Distributed Generation Power Systems Equipment - Certified to U.S. Standards

Transformerless Grid Support Utility Interactive PV Inverter, Models Solis-75K-5G-US, Solis-80K-5G-US, Solis-90K-5G-US, Solis-100K-5G-US and S5-GC75K-US, S5-GC80K-US, S5-GC90K-US, S5-GC100K-US, S5-GC125K-US. Wall mounted, permanently connected.

Notes:

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 | - | Power Conversion Equipment |
| *UL Std No. 1741-Third Edition | - | Inverters, Converters, Controllers and Interconnection System Equipment For Use With Distributed Energy Sources (Third Edition, Dated May 19, 2023) |
| **UL 1699B | - | Photovoltaic (PV) DC Arc-Fault Circuit Protection |



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****UL1741 CRD** - (First Edition, Revision Dated May 18, 2021)
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. 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. 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





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
80206689	2024-08-09	Update report 80032256 with below modifications: <ol style="list-style-type: none">1. Add model S5-GC125K-US to meet all listed applicable standard requirements and evaluate the Grid support function to comply with HECO SRD V2.0 requirements for all models, firmware number is A3.2. Add alternate materials, such as Transformer (T1), AC Power Inductor, IGBT module, AC relay, AC current sensor, DC current sensor, Film Capacitor, DC SPD, Internal Fan, PV Connector.3. AFCI Board updated.4. Update construction for model S5-GC125K-US.
80173210	2023-09-04	Update report 80032256 to add alternate materials of DC SPD, Bus Electrolytic Capacitor, IGBT, Film Capacitor, Optocoupler, AC SPD and RSS Transmitter.
80114372	2022-07-18	Update report 80032256 to add models: S5-GC75K-US, S5-GC80K-US, S5-GC90K-US, S5-GC100K-US and 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 for all models.
80112840	2022-01-12	Update the report 80032256 to add alternate materials of RSS Transmitter, PV Connector, DC Disconnect Switch, Boost Diode, IGBT module, AC current sensor and Bus Electrolytic Capacitor.
80063308	2021-01-21	Update the report 80032256 to review the spacing of RSD Board (NO: RSME2750) and add alternate material of RSD Board.
80046892	2020-09-03	Update the report 80032256 to include requirements of UL1741CRD Grid Support Utility Interactive Interoperability Optional Functions: Prevent Enter Service and Limit Active Power (CA Rule 21, Phase 3, functions 2 and 3) (Dated October 22, 2019) for Transformerless Grid Support Utility Interactive PV Inverter, Models Solis-75K-5G-US, Solis-80K-5G-US, Solis-90K-5G-US and Solis-100K-5G-US.
80032256	2020-8-25	Transformerless Grid Support Utility Interactive PV Inverter, Models Solis-75K-5G-US, Solis-80K-5G-US, Solis-90K-5G-US and Solis-100K-5G-US. (C/US)