Certificate of Compliance

Certificate:	80136899	**Master Contract:**	302773
Project:	80292698	**Date Issued:**	2026-03-27
Issued to:	**Lunar Energy, Inc** **755 Ravendale Drive** **Mountain View, California** **94043** **United States** **Attention:** Harshad Joshi	**Issued by:**	*Gavin Conti* Gavin Conti

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.

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

Maximizer

Model(s)
10-005220, 10-00522D, 10-00522E

Ratings as follows:

MODELS	10-005220

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Maximum Input Open Circuit Voltage	60V
PV Input operating voltage Range	20-60V
Max input current (dc)	16A
Max input short circuit current	20A
Output voltage (dc)*	20-60V
Max continuous output current (dc)	16A
Max Continues DC input power @ 20Vdc to 48Vdc	420W
Max Continues DC input power @>48Vdc to 54Vdc	210W
Max continuous output power (dc)	420W
Normal operation temp range	-40°C to +85°C
Maximum System String Operating Voltage	450 VDC
Outdoor Enclosure	Type 4X (Fully Potted) and IP 68 (24Hours)
Maximum Quantity of strings	3
Minimum -Maximum Maximizers per series	8-24
Altitude	3000M

MODELS	10-00522D, 10-00522E
Maximum Input Open Circuit Voltage	75V
PV Input operating voltage Range	20-60V
Max input current (dc)	16A
Max input short circuit current	20A
Output voltage (dc)*	20-60V
Max continuous output current (dc)	16A
Max Continues DC input power @ 20Vdc to 48Vdc	650W
Max Continues DC input power @>48Vdc to 54Vdc	650W
Max continuous output power (dc)	650W
Normal operation temp range	-40°C to+85°C
Maximum System String Operating Voltage	450 VDC
Outdoor Enclosure	Type 4X (Fully Potted) and IP 68 (24Hours)
Min and Max number of Maximizer per series String	8-24
Maximum Quantity of Parallel Strings	3 Strings
Altitude	3000M

Notes:

1. Models are certified as a component to be used in conjunction with a certified/listed photovoltaic module where the suitability is to be evaluated in the end application.
2. Evaluated to a maximum of 16 A max. input per Maximizer.

APPLICABLE REQUIREMENTS

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Standards Used	Description
UL 1741:2021 - Third Edition - Including revisions through October 23, 2024	UL Standard for Safety Inverters, Converters, Controllers and Interconnection System Equipment for Use With Distributed Energy Resources
CSA C22.2 No. 107.1:16 (Fourth Edition)(R2021)	Power conversion equipment

Conditions Of Acceptability

1. Lunar shall follow the approved manufacturer's recommended potting compound mixing instructions and processes including handling and storage and compound shelf life.
2. Radiate immunity and surge tests are to be evaluated in the end system.
3. Hardware abnormal testing and software were defeated on current limit in place of Firmware evaluation.
4. Mounting means was tested with MLPE Frame attachment which was certified to UL2703 (UL file E359313).
5. Any power connector mated with a socket or connector attached to this product must be from the same manufacturer, the same series, and have a matching part number.
6. Associated Rapid shut down and immunity tests to be evaluated in the system with the Lunar Inverter System.

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Notes:

Products certified under Class(es) C531109, C531189 have been certified under CSA's ISO/IEC 17065 accreditation with the Standards Council of Canada (SCC). www.scc.ca

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Supplement to Certificate of Compliance

Certificate: 80136899 **Master Contract:** 302773

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
80292698	2026-03-27	Update Lunar Maximizer Report 80136899 (80270744) to include Maximizer 1.3 mechanical changes to upgrade to Type E Enclosure as described in Impact Analysis IA_MAX_0001_03-02-2026 (Model number change from 10-00522D to 10-00522E) Update CCL per project 80251319, and add alternate Capacitors to CCL
80270744	2025-09-22	Update to Maximizer Report 80136899 (80251319) to correct Input Open Circuit Voltage from 66VDC to 75VDC
80251319	2025-06-24	Update Report 80136899 to include alternate construction and rating changes as described in Impact analysis IA_MAX_0000_03-20-2025 and CSA's feedback.
80136899	2024-03-29	To perform a Model Certification on Lunar Energy's PV Optimizer. C/US

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