



Certificate of Compliance

Certificate: 70072584

Master Contract: 266909

Project: 80055497

Date Issued: 2020-09-16

Issued To: Unirac
1411 Broadway NE
Albuquerque, New Mexico, 87102
United States

Attention: Klaus Nicolaedis

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: Michael Hoffnagle
Michael Hoffnagle



PRODUCTS

CLASS - C531302 - POWER SUPPLIES - PHOTOVOLTAICS - PV Racking.
CLASS - C531382 - POWER SUPPLIES - PHOTOVOLTAICS-PV Racking and clamping systems -
Certified to US Standards

Models: RM 5 South – South facing, low-slope, ballasted roof-mount PV racking system
RM DT – East-West facing, low-slope, ballasted roof-mount PV racking system

The systems listed are designed to provide bonding/grounding, and mechanical stability for photovoltaic modules. The system employs galvanized steel bays, ballasted with ASTM C1491 concrete blocks. Modules are secured to the racking system with stainless steel end and mid clamps. Where applicable, the system may employ fire skirts and/or wind deflectors made from 18 gauge G180 steel. The modules are bonded to the racking system with anodization-piercing clamps. The system is grounded with 10 AWG copper wire to bonding/grounding lugs.



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The grounding of the system is intended to comply with the latest edition of the National Electrical Code, to include NEC 250 & 690. Local codes compliance is required, in addition to national codes. All grounding/bonding connections are to be torqued in accordance with the Installation Manual and the settings used during the certification testing for the current edition of the project report.

The system may employ bay-mounted or module mounted optimizers/micro-inverters.

Both models are identical in terms of construction material, module clamps, bonding/grounding, and performance rating with the exception of the tilt angle and direction of the systems.

Mechanical ratings for both models:

Downward Design Load (lb/ft²)	36
Upward Design Load (lb/ft²)	16.7
Down-Slope Load (lb/ft²)	5

Conditions of acceptability: Installation is subject to acceptance of the local inspection authorities having jurisdiction. The certification of these products relates only to the methods of installation, bonding, and grounding as outlined in the Installation Manual for each product.

APPLICABLE REQUIREMENTS

- UL 2703-1st Edition - Mounting Systems, Mounting Devices, Clamping/Retention Devices, and Ground Lugs for Use with Flat-Plate Photovoltaic Modules and Panels.
- LTR AE-001-2012 - List of Technical Requirements for Photovoltaic Module and Panel racking Systems

MARKINGS

The manufacturer is required to apply the following markings:

- Products shall be marked with the markings specified by the particular product standard.
- Products certified for Canada shall have all Caution and Warning markings in both English and French.

Additional bilingual markings not covered by the product standard(s) may be required by the Authorities Having Jurisdiction. It is the responsibility of the manufacturer to provide and apply these additional markings, where applicable, in accordance with the requirements of those authorities.

The products listed are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US (indicating that products have been manufactured to the requirements of both Canadian and U.S. Standards) or with adjacent indicator 'US' for US only or without either indicator for Canada only.

The following markings appear on the ballast bay by permanent stamping:



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1. Submitter's name and/or CSA Master Contract number "266909";
2. Model designation;
3. Manufacturing date;
4. System fire class rating/designation of information location in Installation Manual;
5. Design load rating/designation of information location in Installation Manual;

UNIRAC RM SOUTH 5
CONFORMS TO UL STD 2703
PATENT PENDING
UNIRAC MFR DDDYY



SYSTEM FIRE CLASS RATING: SEE INSTALLATION INSTRUCTIONS FOR INSTALLATION REQUIREMENTS TO ACHIEVE A SPECIFIED SYSTEM FIRE CLASS RATING WITH THIS PRODUCT.

DESIGN LOAD RATING: SEE INSTALLATION INSTRUCTIONS FOR LOADS AND MODULES QUALIFIED FOR USE WITH THIS PRODUCT.





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
80055497	2020-09-16	Update Report 70072584 to add REC, Silfab, Qcells, and Silfab modules SIL ML/NL/BL/NT to the approved PV module list. Evaluation only, no testing required.
80050528	2020-07-29	Updated report 70072854 with Hyundai and Q CELL PV models added to the PV list of approved modules. Evaluation only, no testing required.
80017135	2019-09-11	Updated report 70072854 with Ground Lug “Weeb-Lug 6.7”. Evaluation only, no testing required.
80008354	2019-08-28	Updated descriptive report 7007258 with various module manufactures to PV list. Evaluation only, no testing required.
000070210389	2019-02-05	Updated descriptive report 70072584 with 14 module manufactures to PV list. Evaluation only, no testing required.
000070170881	2018-03-27	Update descriptive report 70072584 with the following: Evaluated modules for addition to PV module list, add an alternative grounding device.
000070127301	2017-10-05	Update Report # 70072584 with 8 module manufactures to PV list. Evaluation only, no testing required.
000070103370	2017-03-06	Update Report Number 70072584: 1. Add previously certified module list to the Descriptive Report. 2. Add Additional Canadian Solar, Flextronics, and Sunpower Modules to Descriptive Report. 3. Add Frameless Module Clamps and Frameless Modules to Descriptive Report.
000070072584	2016-08-12	Full certification of RM2.0 E-W and RM South 5 degree to UL 2703 1st Ed and LTR AE-001-2012.