



Certificate of Compliance

Certificate: 70072584

Master Contract: 266909 (266909)

Project: 70170881

Date Issued: 2018-03-28

Issued to: Unirac
1411 Broadway NE
Albuquerque, New Mexico 87102
USA
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

For details related to rating, size, configuration, etc. reference should be made to the CSA Certification Record or the descriptive report.

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 adonization-piercing clamps. The system is grounded with 10 AWG copper wire to bonding/grounding lugs.

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.



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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, Mounding 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 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:

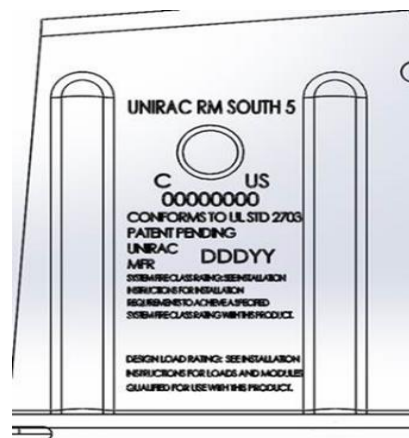
1. Submitter’s name and/or CSA Master Contract number “266909”;
2. Model designation;
3. Manufacturing date;
4. System fire class rating/designation of information location in Installation Manual;
5. Design load rating/designation of information location in Installation Manual;

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
70170881/ 70172951	2018-03-28	Update descriptive report 70072584 with the following: Evaluated modules for addition to PV module list, add an alternative grounding device.
70127301	2017-10-05	Update Report # 70072584 with the following: --Evaluate (8) Modules for inclusion into report --If modules can be added without additional testing, add to report. --For any modules requiring additional testing, create test plan and issue change order for testing.
70103370	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.
70072584	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.