1.0 Reference and Address			
Report Number	105195626LAX-001	Original Issued: 29-Jan-2024	Revised: 30-Apr-2026
Standard(s)	Inverters, Converters, Controllers and Interconnection System Equipment for use with Distributed Energy Resources [UL 1741:2021 Ed.3+R:19May2023]		
Applicant	Unirac, Inc.	Manufacturer 2	
Address	1411 Broadway Blvd NE Albuquerque, NM 87102-1545	Address	
Country	USA	Country	
Contact	Mr. Rob D'Anastasio Joey Bacala	Contact	
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2.0 Product Description	
Product	Junction box
Brand name	SOLOBOX
Description	Product is junction box for electrical connections in PV systems. It is for outdoor use intended to be installed in accordance with NFPA 70/NEC and UL 1741. (The terminal used in the box for the testing is not part of this report).
Models	SOLOBOX COMP SOLOBOX RAIL
Model Similarity	Differences between SOLOBOX RAIL as compared to SOLOBOX COMP: - SOLOBOX RAIL is smaller in size. - SOLOBOX RAIL is added a rail clamp. - SOLOBOX RAIL is changed to a removable hinged lid.
Ratings	Ratings for SOLOBOX COMP: MAXIMUM SYSTEM VOLTAGE(AC/DC): 1000V MAXIMUM TOTAL CURRENT (AC/DC): 120A MAXIMUM CURRENT PER STRING (Isc): 60A MAXIMUM NUMBER OF INPUT CIRCUITS: 8 COMBINED CIRCUITS NOT TO EXCEED 120A OUTPUT CURRENT RATING: 120A AMBIENT OPERATING CONDITIONS: -35C to 75C ALLOWBLE WIRE: INPUTS: 14 AWG - 6 AWG (USE COPPER ONLY) OUTPUTS: 14 AWG - 6 AWG (USE COPPER ONLY) GROUND: 14 AWG - 6 AWG (USE COPPER ONLY) Ratings for SOLOBOX RAIL: MAXIMUM SYSTEM VOLTAGE(AC/DC): 1000V MAXIMUM TOTAL CURRENT (AC/DC): 80A MAXIMUM CURRENT PER STRING (Isc): 30A MAXIMUM NUMBER OF INPUT CIRCUITS: 8 COMBINED CIRCUITS NOT TO EXCEED 80A OUTPUT CURRENT RATING: 80A AMBIENT OPERATING CONDITIONS: -35C to 75C ALLOWBLE WIRE: INPUTS: 14 AWG - 6 AWG (USE COPPER ONLY) OUTPUTS: 14 AWG - 6 AWG (USE COPPER ONLY) GROUND: 14 AWG - 6 AWG (USE COPPER ONLY)
Other Ratings	TYPE 3R

7.0 Illustrations

Illustration 1 - Molded Warning

