

## DESCRIPTION

## PRODUCT COVERED:

Distributed Generation Power Systems Accessory Equipment - Photovoltaic Combiner box.

\* USL - Evaluated to the requirements of the Standard for Safety for Inverters, Converters, Controllers and Interconnection System Equipment for Use With Distributed Energy Resources, UL 1741, **Second** Edition, Dated **January 28, 2010**.

This description covers the Tyco Electronics Corp. Models 1954283-1 and 1954283-2 Photovoltaic Combiner box, which includes the following components: Photovoltaic interconnection systems equipment and PV string over-current protection.

## ELECTRICAL RATINGS:

Model (s)	1954283-1 and 1954283-2
Maximum array system voltage (dc)	600 V
Rated output current (dc)	75 A
Rated input current (dc)	15 A
Maximum Input (PV module) short circuit current per string (Isc) (dc) (1)	9.6 A
Maximum fuse rating.	15 A
Number of input circuits	5

Other ratings	
Maximum Air Ambient (°C)	50 °C
Enclosure Ratings	NEMA 3

## ENGINEERING CONSIDERATIONS (NOT FOR FIELD REPRESENTATIVE'S USE):

Special Considerations - The following items are considerations that were made in the evaluation of this product.

The equipment was submitted by the manufacturer for use in a maximum air ambient of 50 °C.

The combiner box model 1954283-1 and 1954283-2 is intended to be mounted upright and secured through the bolt holes provided in the base.

The combiner box model 1954283-1 and 1954283-2 has been judged on the basis of the required spacings in the First Edition of the Standard for Inverters, Converters and Controllers for Use in Independent Power Systems, UL 1741, dated May 7, 1999 including revisions dating to November 07, 2005.

The combiner box Model 1954283-1 and 1954283-2 has been evaluated for NEMA 3 & 3R for wet locations when mounted in all orientations with suitable wet location liquid-tight conduit fittings in the enclosure locations specified in the unit instruction manual (see ILL. 3) per local codes.