



Certificate Number: 022714A38-UL

Date: 2016-10-04

## UL CONDITIONS OF ACCEPTABILITY

**Company Name:** TRACO ELECTRONIC AG

**File-CCN:** E188913 - QQQQ2, QQQQ8

**Product Description:** DC/DC Converter

**Models:** TEP 75-7210Wlaaaaaaaa (#), TEP 75-7211Wlaaaaaaaa (#), TEP 75-2712Wlaaaaaaaa (#), TEP 75-7213Wlaaaaaaaa (#), TEP 75-7215Wlaaaaaaaa (#), TEP 75-7216Wlaaaaaaaa (#), TEP 75-7218Wlaaaaaaaa (#)

Where (#) - "a" may be any alphanumeric character, punctuation mark or blank .

**Conditions Of Acceptability:** For use only in or with complete equipment where the acceptability of the combination is determined by UL LLC. When installed in an end-product, consideration must be given to the following:

The end-product Electric Strength Test is to be based upon a maximum working voltage of: Primary-SELV: 157 Vrms, 264 Vpk.

The following secondary output circuits are SELV: All outputs, all models.

The following secondary output circuits are at non-hazardous energy levels: All outputs, all models.

The power supply terminals and/or connectors are: Suitable for factory wiring only

The investigated Pollution Degree is: 2

The equipment is suitable for direct connection to: DC mains supply

Abnormal/Component Failure Tests were conducted with an external fuse (500Vdc/5A and 250Vac/5A maximum). Repeated tests in the end-use application shall be considered when installing higher different rated protective devices. All tests were performed with an external overcurrent protective device, fuse F1 (CONQUER ELECTRONICS CO LTD (E82636), Type UDE-A, rated 5 A/500Vdc) and (LITTELFUSE INC (E10480), Type 215, rated 5 A/250Vac)

The units were tested for an input voltage of 43 V dc or 160 V dc with no tolerance. If used outside this voltage, additional testing may be required.

The distances were investigated for transient rating for SECONDARY CIRCUIT is up to 1500 V; any other consideration for transient rating greater than 1500 V shall be evaluated in end use product.

All secondary output circuits are SELV only if circuits meet the limits of Sub-Clause 2.2.3 in the event of a single fault (see 1.4.14) in the SELV CIRCUIT or in the SECONDARY CIRCUIT to which the SELV CIRCUIT is connected.

The product was investigated to the electric strength 3000VAC/4242VDC between input and output circuits, declare by manufacturer.

The following components require special consideration during end-product Thermal (Heating) tests due to the indicated maximum temperature measurements during component-level testing: The Metal baseplate outside near T1 (70°C )

**Ratings:**

<b>Model Number</b>	<b>Input Range (V)</b>	<b>Input Current (A)</b>	<b>Output Voltage (V)</b>	<b>Output Current (A)</b>
TEP 75-7210WIaaaaaaaa	43-160	1.81	3.3	20
TEP 75-7211WIaaaaaaaa	43-160	2.00	5	15
TEP 75-2712WIaaaaaaaa	43-160	2.02	12	6.3
TEP 75-7213WIaaaaaaaa	43-160	2.00	115	5
TEP 75-7215WIaaaaaaaa	43-160	2.08	24	3.2
TEP 75-7216WIaaaaaaaa	43-160	2.04	28	2.7
TEP 75-7218WIaaaaaaaa	43-160	2.08	48	1.6