

UNDERWRITERS LABORATORIES INC. CERTIFICATION REQUIREMENT DECISION

This Certification Requirement Decision is prepared by UL LLC. It is normative for the applicable UL Product Certification Program(s); however, it is currently not part of the UL Standard(s) referenced below.

Product Category (CCN): NITW

Standard Number: UL 508A

Standard Title: Standard for Industrial Control Panels

Edition Date: April 24, 2018

Edition Number: 3

Section / Paragraph Reference: 42.2.3/42.2.3.1

Subject: Sizing Power Supplies Complying with UL 61010-2-201

DECISION:

42.2.3 Sizing of power supply

42.2.3.1 A power supply or bridge rectifier shall be loaded at not more than 50 percent of the ampere rating of the device. Where the power supply has multiple secondaries, each secondary shall be loaded at not more than 50 percent of the secondary ampere rating.

Exception No. 1: An enclosed power supply having provisions for connection to conduit is able to be used for loading to 100 percent of the ampere rating of the power supply.

Exception No. 2: A power supply that complies with the Temperature Test in the Standard for Industrial Control Equipment, UL 508, is able to be used for loading to 100 percent of the ampere rating of the power supply.

Exception No. 3: A power supply that complies with the Temperature Test in the Standard for Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use – Part 2-201: Particular Requirements for Control Equipment, UL 61010-2-201, is able to be used for loading to 100 percent of the ampere rating of the power supply.

RATIONALE FOR DECISION:

As permitted by the existing “Exception No. 2”, power supplies that comply with the Temperature Test in the Standard for Industrial Control Equipment, UL 508, are suitable for loading to 100 percent of the ampere rating of the power supply based on being evaluated for use in a 40C ambient. The same performance criteria for the Temperature Test detailed in UL 508 is also specified in the Standard for Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use – Part 2-201: Particular Requirements for Control Equipment, UL 61010-2-201. Therefore, this Certification Requirement Decision extends the same provision, as a new “Exception No. 3”, to those power supplies evaluated using UL 61010-2-201.

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