UL 1699B

STANDARD FOR SAFETY

Photovoltaic (PV) DC Arc-Fault Circuit Protection

UL Standard for Safety for Photovoltaic (PV) DC Arc-Fault Circuit Protection, UL 1699B

First Edition, Dated August 22, 2018

SUMMARY OF TOPICS

This revision of ANSI/UL 1699B dated May 18, 2021 includes the following changes in requirements:

– Revision to requirements for the self-testing of circuits; 23.1, 23.2, 23.7, 25.2, 27.2.2, 53.1, 53.2 and 53.7

– Additional set-up figure for the arc-fault detection test; Table 29.1, Figure 29.14, Figure 30.2, Figure 30.3, Figure 30.6B, 30.4.3 and 30.4.4

– Revision for additional single/dual module test configurations; 29.1.1, Table 29.1, Figures 29.7 and 29.8, Figure 29.8A, 29.7.1, Figure 29.17, Figure 29.17A.1 – Figure 29.17A.4, Figure 29.18, 30.1.1 and Figure 30.5A.1 – Figure 30.5A.4

– Clarification of miscellaneous requirements; 29.1.11, 29.1.12, Table 29.3 and Table 30.1

– Revision to annunciation and test methods; 22.1 and 52.1

– Clarification when using array simulators; 24.4, 29.1.3, Table 29.3 and Table 30.1

– Test conditions for single and dual module for electronic devices; Table 29.2

– Clarification for determining most adverse condition and brute force method for series arc-fault detection tests; 29.1.3 and 29.1.4

Text that has been changed in any manner or impacted by UL's electronic publishing system is marked with a vertical line in the margin.

The new and revised requirements are substantially in accordance with Proposal(s) on this subject dated November 27, 2020 and March 12, 2021.

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ANSI/UL1699B-2021

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This ANSI/UL Standard for Safety consists of the First Edition including revisions through May 18, 2021.

The most recent designation of ANSI/UL 1699B as an American National Standard (ANSI) occurred on May 18, 2021. ANSI approval for a standard does not include the Cover Page, Transmittal Pages, and Title Page.

Comments or proposals for revisions on any part of the Standard may be submitted to UL at any time. Proposals should be submitted via a Proposal Request in UL's On-Line Collaborative Standards Development System (CSDS) at https://csds.ul.com.

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