

STANDARD INFORMATION

If the project requires any changes to the Certification Data Report outside of Section 1, then this SUN applies.

Standard: UL 61010-1 / CSA C22.2 No. 61010-1

Standard ID:

Electrical Equipment for Measurement, Control, and Laboratory Use; Part 1: General Requirements [UL 61010-1:2012 Ed.3+R:15Nov2024]

Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use Part 1: General Requirements [CSA C22.2#61010-1-12:2012 Ed.3+U1;U2;A1;U3;U4]

Previous Standard ID:

Electrical Equipment for Measurement, Control, and Laboratory Use; Part 1: General Requirements [UL 61010-1:2012 Ed.3+R:06Jun2023]

Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use Part 1: General Requirements [CSA C22.2#61010-1:2012 Ed.3+U1;U2;A1;U3]

EFFECTIVE DATE OF NEW/REVISED REQUIREMENTS

Effective Date: May 15, 2026

IMPACT, OVERVIEW, AND ACTION REQUIRED

Impact Statement: No action is required for currently certified products. If modifications to the product after the effective date require an evaluation and/or testing, then the product must undergo re-evaluation to the new requirements.

Overview of Changes:

- All permanently connected equipment shall consider the requirements of annex DVD and DVE, not only mains connected
- Impact energy requirements for permanently connected equipment
- Temperature test guidance and clarification for open equipment and permanently installed equipment
- Equipment enclosure rating requirements have been clarified to allow both IP Code and Type rating
- Identify type rating requirements referenced by the installation codes
- Addition of requirements for permanently installed equipment

Specific details of new/revise requirements are found in table below

Note: If the listing references a Canadian standard, per the Canadian Electrical Code (CSA C22.2#0) Section titled Language of markings, Caution and Warning Markings shall be in English and French.

Current Listings Not Active? – Please immediately identify any current Listing Reports or products that are no longer active and should be removed from our records. We will do this at no charge as long as Intertek is notified in writing prior to the review of your reports.



STANDARD INFORMATION

CLAUSE	VERDICT	COMMENT
<i>Additions to existing requirements are <u>underlined</u> and deletions are shown lined out below.</i>		
6	Info	Protection against electric shock
6.10	Info	Connection to the MAINS supply source and connections between parts of equipment
<i>Clause deleted;</i>		
PERMANENTLY CONNECTED EQUIPMENT		
6.10.4DV.1		Equipment intended for permanent connection to the MAINS shall meet the requirements of Annex DVD.
Open-type or enclosed-type equipment for permanent installation of the MAINS shall meet the requirements of Annex DVE.		
Conformity is checked as specified in Annex DVE.		
8	Info	Resistance to mechanical stresses
<i>New clause added;</i>		
The normal energy protection level required shall be:		
– 6.8 J for PERMANENTLY CONNECTED EQUIPMENT and floor-standing equipment;		
and		
– 5 J for all other equipment.		
8.1DV		NOTE The requirements are intended to match impact test from UL 746C and other North America Standards.
Levels below 5 J, but not less than 1 J, are permitted provided that all the following criteria are met:		
9	Info	Protection against the spread of fire
9.3	Info	Containment of fire within the equipment, should it occur
<i>New clause added;</i>		
9.3.2DV.3		Enclosures complying with UL 50 and UL 50E or CSA C22.2 No. 94.1 and CSA C22.2 No. 94.2 for the intended application, other than Type 1, are deemed to meet this requirement.



CLAUSE	VERDICT	COMMENT
<i>New clause added;</i>		
9.3.2DV.4		Flammability RATINGS V-0, V-1, and V-2 of UL 94 or CSA C22.2 No. 0.17, or end product flame tests (12 mm or 15 mm) of UL 746C are considered equivalent to the same classifications of IEC 60695-11-10.
10	Info	Equipment temperature limits and resistance to heat
10.4	Info	Conduct of temperature tests
<i>New clause added;</i>		
Open type equipment		
10.4.4DV.1		Open equipment is tested within an enclosure with dimensions as specified in the open equipment's installation instructions or tested under the referenced test ambient condition.
<i>New clause added;</i>		
Equipment intended for permanent installation		
10.4.4DV.2		Permanently installed equipment is tested with a minimum of 1.22 m (4 ft) of wire when connecting to field-wiring terminal. Wire size is determined in accordance with Table 310-15(B) of NFPA 70, and Tables 1 to 5 of CSA C22.1. The size is based upon wire that is rated for a temperature of 60 °C (140 °F) for connection to a branch circuit with a rating of 100 amperes or less, and upon wire that is rated per the 75 °C (167 °F) column for a rating greater than 100 amperes. NOTE Wires attached to terminals act as a heat sink. Wires shorter than 1.22 m (4 ft) can limit the ability to remove heat from the terminals and this is considered a more severe case.
14	Info	Components and subassemblies
<i>New clause added;</i>		
14.9DV.1.2		Permanent installed equipment for outdoor use shall meet relevant installation code requirements and be of a Type rating recognized for the intended use as specified in CSA C22.1 CEC, Part 1 and/or NFPA, NEC, as applicable.



CLAUSE	VERDICT	COMMENT
Annex DVD	Info	Permanent connection to MAINS
DVD.2	Info	Wiring TERMINALS and leads
DVD.2.4	Info	TERMINAL and lead identification
DVD.2.4.6A	Info	Field-wiring terminal markings
		<i>New clause added;</i>
		Equipment having field-wiring terminals shall be marked:
DVD.2.4.6A.1		a) "Use Copper Conductors Only" if the terminal is only for connection to copper wire; b) "Use Copper or Copper-Clad Aluminum Conductors Only" if the terminal is only for connection to copper and copper-clad aluminum wire; c) "Use Aluminum Conductors Only" or "Use Aluminum or Copper-Clad Aluminum Conductors Only" if the terminal is only for connection to aluminum wire; and d) "Use Copper or Aluminum Conductors" or "Use Copper, Copper-Clad Aluminum, or Aluminum Conductors" if the terminal is for connection to either copper or aluminum wire.
		<i>New clause added;</i>
		Alternatively, the markings in DVD.2.4.6A.1 may be abbreviated as follows:
DVD.2.4.6A.2		a) Equipment having a connector intended only for use with copper wire shall be marked with the letters "CU". b) Equipment having a connector intended for use with copper-clad aluminum and copper wire shall be marked "CC-CU" or "CU-CC". c) Equipment having a connector intended for use with aluminum or copper-clad aluminum and copper wire shall be marked "AL-CU" or "CU-AL". d) Equipment having a connector intended only for use with aluminum wire shall be marked with the letters "AL".
		<i>New clause added;</i>
DVD.2.4.6A.3		The markings required by DVD.2.4.6A.1 to DVD.2.4.6A.2 may be in the installation instructions, provided the equipment is marked with a coded correlation marking referencing the installation instruction, or with the marking of Table 1, symbol 14.
DVD.5	Info	Insulation requirements
		<i>New clause added;</i>
DVD.5.1		Neutral conductors as part of the mains circuit, shall be considered hazardous live.
		<i>Annex DVE has been completely re-written.</i>
Annex DVE		Permanently installed equipment
		See standard for details.