

STANDARD INFORMATION

Standard Number: UL 231

Standard Name: Power Outlets

Standard Edition and Issue Date: 10th Edition dated October 5, 2016

Date of Revision: July 5, 2019

Date of Previous Revision of Standard: October 5, 2016

EFFECTIVE DATE OF NEW/REVISED REQUIREMENTS

Effective Date: **July 5, 2021**

IMPACT, OVERVIEW, AND ACTION REQUIRED

Impact Statement: A review of all Listing Reports is necessary to determine which products comply with new/revised requirements and which products will require re-evaluation. **NOTE:** Effective immediately, this revised standard will be exclusively used for evaluation of new products unless the Applicant requests in writing that current requirements be used along with their understanding that their listings will be withdrawn on Effective Date noted above, unless the product is found to comply with new/revised requirements.

Overview of Changes: Addition of requirements for environmental considerations. Specific details of new/revised requirements are found in table below.

If the applicable requirements noted in the table are not described in your report(s), these requirements will need to be confirmed as met and added to your report(s) such as markings, instructions, test results, etc. (as required).

Client Action:

Information – To assist our Engineer with review of your Listing Reports, please submit technical information in response to the new/revised paragraphs noted in the attached or explain why these new/revised requirements do not apply to your product (s).

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 – Please immediately identify any current Listing Reports or products that are no longer active and should be removed from our records.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>
5	Info	Enclosure
5.1	Info	General
5.1.2		A <u>power outlet, including any external operating mechanism</u> , such as for a disconnect, mounted on or through the enclosure shall withstand the environmental tests specified in the Standard for Non Enclosures for Electrical Equipment, Environmental Considerations, UL 50 <u>UL 50E</u> , for the enclosure type marked in accordance with 35.2. <u>The enclosure type selected from UL 50E shall be a type that is suitable for outdoor use.</u>
5.1.3		A power outlet marked in accordance with 35.2 with a Type 3S or <u>Type 3SX</u> enclosure designation and provided with an external operating mechanism shall be capable of supporting the weight of any ice build-up, being operated as intended, and withstanding removal of the ice by a tool or auxiliary means to gain access to the interior of the enclosure. Determination of these characteristics is to be made in accordance with 21.1 for each maintained position of the external operating mechanism.
5.1.5		<u>In addition to withstanding the environmental tests as specified in 5.1.2</u> , the enclosure shall be constructed to withstand beating rain and splashing water as determined by application of the requirements specified in the Rain and Splash Test, Section 22.i The Rain and Splash Test in Section 22 replaces <u>the Rain Test requirements from the Standard for Enclosures for Electrical Equipment, Environmental Considerations, UL 50E</u> . <u>A power outlet</u> marked for marine use, <u>shall additionally be subjected to the Spray Test, Section 23</u> . If there is an opening for a ringless type meter without a viewing pane in front of the meter, the enclosure shall be provided with a permanent structural system to channel any accumulation of water to the outside of the enclosure. During the tests specified in the Rain and Splash Test, Section 22, and the Spray Test, Section 23, a meter having the dimensions specified in Figure 5.1 shall be installed in place.
7	Info	Mounting Posts and Pedestals
7.1	Info	General
7.1.3		That portion of a steel post located below grade level and up to 12 inches (305 mm) above grade level shall be painted on both the inside and outside surfaces in addition to being galvanized— Designation G90 or equivalent as covered in the Standard for Enclosures for Electrical Equipment, <u>Environmental Considerations</u> , UL 50 <u>UL 50E</u> .



CLAUSE	VERDICT	COMMENT
21	Info	External Operating Mechanism Test
		Following the icing test specified in the Standard for Enclosures for Electrical Equipment, Non-Environmental <u>UL 50 Environmental Considerations, UL 50E</u> , an enclosure marked with a Type 3S <u>or Type 3SX</u> enclosure designation shall:
21.1		a) Be inspected for ice build-up; b) Have the ice removed; and c) Be operated as intended in service.
		There shall not be damage to the enclosure following this test.
	Info	MARKINGS
35	Info	Details
		A power outlet enclosure shall be marked as a Type 3R <u>with the environmental Type</u> indicating the external conditions for which it is intended, as specified in the Standard for Enclosures for Electrical Equipment, Non-Environmental, UL 50 <u>Environmental Considerations, UL 50E</u> . The marking may be on the inside or outside surface but shall be visible after installation.
35.2		Exception: A power outlet that does not contain a meter socket or that completely encloses a meter socket so that an installed meter is not exposed to rain may be marked as an enclosure Type 3, 3S, 4, 4X, or combinations of these types.
35.53		If a Type 2, 3, 3R, <u>3RX, 3S, or 3SX</u> enclosure has no means for field installation of conduit hubs, the enclosure shall be marked to specify use of listed wet location conduit fittings that comply with the Standard for Conduit, Tubing, and Cable Fittings, UL 514B.
36	Info	Permanence of Marking
36.1		A required marking shall comply with the permanence of marking requirements in the Standard for Enclosures for Electrical Equipment, Non-Environmental, UL 50 <u>Environmental Considerations, UL 50E</u> .
CUSTOMERS PLEASE NOTE: This Table and column "Verdict" can be used in determining how your current or future production is or will be in compliance with new/revised requirements.		