

STANDARD INFORMATION

Amendment 1: See updated Effective date in blue below.

Standard: UL 858

Standard ID: Standard for Safety Household Electric Ranges [UL 858:2014 Ed.16+R:18Apr2022]

Previous Standard ID: Standard for Safety Household Electric Ranges [UL 858:2014 Ed.16+R:12Sep2019]

EFFECTIVE DATE OF NEW/REVISED REQUIREMENTS

Effective Date: ~~April 18, 2024~~ [April 18, 2025](#)

IMPACT, OVERVIEW, AND ACTION REQUIRED

Impact Statement: Per our accreditation, Intertek is required to review reports against the standard revisions to confirm compliance. Once compliance is confirmed, the standard reference in the report is updated to show continued compliance to the technical requirements of the standard. Reports not updated to this version by the effective date above will be withdrawn.

Overview of Changes:

- Addition of remote closed-loop cooking control requirements
- Update to add 240 V leakage current requirements

Specific details of new/revised requirements are found in table below.

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 – Please immediately identify any current Listing Reports or products that are no longer active and should be removed from our records.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
47A		<i>New clause added;</i> Closed Loop Cooking Using Surface Units
47A.1		The temperature limiting function shall be demonstrated to comply with 60A.13 if it has a nominal rating of 350 W or greater.
47A.2		Temperature limiting functions used in surface units having a nominal rating of 350 W or greater are required to comply with the Type 2, Class B Control and Software Functions of a Protective Control as required in Table SB5.1.
47A.3		If a part of the circuit that is responsible for the temperature limiting function is not integral to the appliance, the following test shall be performed. With the appliance at normal ambient condition, the device with sensor on the cooktop shall be in a location other than the element being controlled. The stove plate shall be placed per 59.3.2.3 on the element(s) being controlled. The control temperature for the element with the stove plate is set to maximum setting. The system shall detect lack of feedback and shut down the element(s) being controlled within 2 minutes.
47A.4		The temperature regulating function for closed loop cooking surface units are required to comply with the requirements for Type 1, Class A Control functions in Table SB5.1.
55A		<i>New section added;</i> The leakage current of a cord-connected appliance rated for a nominal voltage equal to or less than 120 V supply when tested in accordance with 55A.3 – 55A.8 shall not be more than 0.75 mA. See standard for details.
86	Info	Installation Instructions
86.18		<i>New clause added;</i> A cord-connected cooking appliance complying with exceptions to 55A.1 and 55A.2 shall have instructions that contain the following statement. “Caution: Risk of Electric Shock. If the cord or plug becomes damaged, disconnect the appliance from the power supply and replace only with a cord or plug of the same type.”



CLAUSE	VERDICT	COMMENT
Supplement SA	Info	SAFETY OF SMART ENABLED HOUSEHOLD ELECTRIC RANGES
SA3	Info	Functional Safety
		<i>New clause added;</i>
		With respect to SA3.2(d), remote closed loop cooking of an induction cooktop is permitted under the following conditions:
SA3.7		a) The user manually sets the control at the appliance to enable remote operation. Once remote operation is enabled, the user may repeatedly use remote functions regardless of local use of the appliance. b) Surface units employing remote closed loop cooking shall be constructed so they can only be activated manually at the appliance using the 2 steps ON function. c) Remote cancellation of a cooking mode is not allowed, except as provided in SA3.8. d) Remote changes to an on-going cooking mode by the user is allowed. e) When the setting for a surface unit is the result of a remote operation: 1) The active target setting must be indicated on the appliance, or 2) An indicator complying with 53.4 shall be utilized to indicate the appliance is being operated remotely. f) Remote operation for a surface unit shall not be allowed while the local control for that surface unit is in the OFF position. g) Maximum allowable temperature setting shall not exceed 600 °F (316 °C). h) Remote uploading of proprietary cooking algorithms by the user is allowed. i) The cooktop control shall comply with the requirements in Section 47A. The suitability of the control as a limiting control shall be in accordance with Section 60A and Table SB5.1.
		<i>New clause added;</i>
SA3.8		With respect to SA3.2(d) a remote operation is permitted that will turn off the cooktop under the following conditions: a) Remote turn off operation meets the requirements of 47.2.1 and Table SB5.1. b) The appliance shall confirm to the remote source that the remote turn off command was received and executed.