UL 1363

STANDARD FOR SAFETY

Relocatable Power Taps

UL Standard for Safety for Relocatable Power Taps, UL 1363

Sixth Edition, Dated July 13, 2023

Summary of Topics

This new edition of ANSI/UL 1363 dated July 13, 2023 includes the following changes in requirements:

– Update Standards Reference UL 62368-1; 28.1 and B4.1

– Addition of Requirements Allowing Electronic Installation Instructions; 52.5

The new and revised requirements are substantially in accordance with Proposal(s) on this subject dated March 3, 2023 and June 2, 2023.

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Standard for Relocatable Power Taps

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Second Edition – December, 1996
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Sixth Edition

July 13, 2023

This ANSI/UL Standard for Safety consists of the Sixth Edition.

The most recent designation of ANSI/UL 1363 as an American National Standard (ANSI) occurred on July 13, 2023. 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 ULSE at any time. Proposals should be submitted via a Proposal Request in ULSE's Collaborative Standards Development System (CSDS) at https://csds.ul.com.

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INTRODUCTION

1 Scope

1.1 These requirements cover indoor use cord and plug connected, relocatable power taps (RPT) rated 250 V AC or less and 20 Amperes or less. A RPT may include an integral Class 2 power supply with an integral lead and/or connector(s) output. In accordance with the National Electric Code, NFPA 70, RPT are for use as a movable power supply connection for cord and plug connected electrical utilization equipment and shall not serve as fixed wiring of a structure or of fixed furnishings, such as but not limited to applications in permanent countertops of kitchens and bathrooms.

1.2 A cord-and-plug-connected product as described in 1.1 with less than three receptacle outlets and provided with a Luminaire is covered under the Standard for Portable Electric Luminaires, UL 153.

1.3 A cord-and-plug-connected product as described in 1.1 with less than three receptacle outlets that employs an electromagnetic interference filter is covered under the Standard for Electromagnetic Interference Filters, UL 1283.

1.4 A cord-and-plug-connected product as described in 1.1 with less than three receptacle outlets that employs a surge protective device (SPD) is covered under the Standard for Surge Protective Devices, UL 1449, for SPD Type 3.

1.5 These requirements cover RPT with more than two receptacle outlets that employ a surge protective device (SPD) shall also comply with the applicable requirements for cord-connected, Type 3 Surge Protective Device (SPD) in the Standard for Surge Protective Devices, UL 1449.

1.6 A cord-and-plug-connected product as described in 1.1 that employs ground-fault protection is covered under the requirements for portable GFCIs in the Standard for Ground-Fault Circuit Interrupters, UL 943.

1.7 This standard does not cover RPT including those employing Hospital Grade receptacles or Hospital Grade plugs (see 52.1), intended for use with medical equipment. RPT are not suitable for use in Category 2 (General Patient Care) Spaces or Category 1 (Critical Patient Care) Spaces or Patient Care Vicinities of health care facilities.

1.8 These requirements do not cover a cord-and plug-connected product, Health Care Facility Receptacle Assemblies (HCOA), covered by the Outline of Investigation for Cord-and-Plug-Connected Health Care Facility Outlet Assemblies, UL 2930. HCOA are intended as a movable power supply connection for cord-and-plug-connected medical electrical utilization equipment for use in Category 2 (General Patient Care) Spaces or Category 1 (Critical Patient Care) Spaces, including Patient Care Vicinities equipped with Patient Equipment Grounding Points, of health care facilities.

1.9 These requirements do not cover a cord-and-plug-connected component, Special Purpose Relocatable Power Taps (SPRPT), covered by the covered in the Outline of Investigations Special Purpose Relocatable Power Taps, UL 1363A. SPRPT are power distribution components intended to supply power to plug-connected components of a movable equipment assemblies that are rack, table, or pedestal-mounted. SPRPT are intended for use as components of complete equipment submitted for investigation rather than for direct separate installation in the field. The SPRPT shall be an integral part of the equipment assembly and permanently attached to the equipment assembly only by those qualified to assemble medical electrical equipment systems compliant with Medical Electrical Equipment – Part 1: General Requirements for Basic Safety and Essential Performance, IEC 60601-1. SPRPT are not suitable for use in Patient Care Vicinities.

1.10 A RPT may employ an integral cord reel for the supply cord and attachment plug. A cord reel provided with pull out receptacle outlets or cord connectors is covered under the Standard for Cord Reels, UL 355.

1.11 These requirements do not cover RPT with work surfaces or surfaces intended to support weight loads other than as specified in 6.16 for the storage of hand-held electronic devices and charging equipment such as a cell phone, cell phone charger and the like.

1.12 These requirements cover RPT provided with isolated secondary circuits.

1.13 These requirements cover RPT provided with batteries located in isolated secondary circuits. See UL 1363 Annex B – Relocatable Power Taps Incorporating Batteries.

1.14 A product that has a battery backup feature or other uninterruptible power supply equipment located in the Primary Circuit shall comply with the applicable requirements in the Standard for Uninterruptible Power Supply Equipment, UL 1778.

1.15 A RPT with three or more receptacle outlets may employ a Light Emitting Diode (LED) Luminaire.

1.16 A cord-and-plug-connected product as described in 1.1 for fixed mounting by use of tools to portable or stationary furnishings is covered under the requirements in the Standard for Furniture Power Distribution Units, UL 962A.

1.17 This standard contains the following Annexes:

a) Annex A – Extendable Relocatable Power Taps.

b) Annex B – Relocatable Power Taps Incorporating Batteries.

c) Annex C – Relocatable Power Taps Employing An Integral Thermal Interruption Mechanism.

2 Components

2.1 Except as indicated in 2.2, a component of a product covered by this standard shall comply with the requirements for that component. See Annex D for a list of standards covering components used in the products covered by this standard.

2.2 A component is not required to comply with a specific requirement that:

a) Involves a feature or characteristic not required in the application of the component in the product covered by this standard, or

b) Is superseded by a requirement in this standard.

2.3 A component shall be used in accordance with its rating established for the intended conditions of use.

2.4 Specific components are incomplete in construction features or restricted in performance capabilities. Such components are intended for use only under limited conditions, such as certain temperatures not exceeding specified limits, and shall be used only under those specific conditions.

2.5 A RPT that incorporates a LED Luminaire and LED components and subassemblies shall comply with the applicable requirements of the Standard for Light Emitting Diode (LED) Equipment for Use in Lighting Products, UL 8750.

3 Units of Measurement

3.1 Values stated without parentheses are the requirement. Values in parentheses are explanatory or approximate information.

3.2 Unless otherwise indicated, all voltage and current values mentioned in this standard are root-mean-square (rms).

4 Undated References

4.1 Any undated reference to a code or standard appearing in the requirements of this standard shall be interpreted as referring to the latest edition of that code or standard.

5 Use

5.1 A RPT is intended to be connected to a permanently installed branch circuit receptacle outlet.

5.2 A RPT is not intended to be permanently mounted.

5.3 A RPT is not intended to be series connected (daisy chained) to other RPT or to extension cords.

6 Glossary

6.1 For the purpose of this standard the following definitions apply.

6.2 ATTACHMENT PLUG – A male contact device for the temporary connection of a flexible cord or cable to a receptacle outlet or cord connector.

6.3 CLASS 2 LEAD – Consists of a factory-made, power-limited cable with a connector at one end. The other end is secured within the housing or enclosure of the RPT. The connector is intended for connection to the Class 2 separable interface.

6.4 CLASS 2 SEPARABLE INTERFACE – A separable component containing Class 2 low-voltage connector(s) only (such as Universal Serial Bus (USB) connector(s).

6.5 CORD CONNECTOR – A female contact device assembled or molded on flexible cord to allow a detachable electrical connection to an attachment plug.

6.6 ISOLATED SECONDARY CIRCUIT – A circuit derived from an isolating source (such as a transformer, optical isolator, limiting impedance or electro-mechanical relay) and having no direct connection back to the primary circuit (other than through the grounding means). A secondary circuit that has a direct connection back to the primary circuit is considered part of the primary circuit.

6.7 MEANS FOR TEMPORARY MOUNTING – A mounting method that does not require the use of tools for mounting or dismounting the RPT and conceals the head of a screw or other fastener so that it cannot be tightened after the RPT is mounted.

6.8 OVERCURRENT PROTECTION (OCP) DEVICE – A supplementary protection device provided within a RPT that provides overcurrent and short-circuit protection.

6.9 PATIENT CARE SPACE, CATEGORY 1 (CRITICAL CARE) – A health care facility space in which failure of equipment or a system is likely to cause major injury or death of patients, staff, or visitors, as established by health care facility's governing body or its designee.

6.10 PATIENT CARE SPACE, CATEGORY 2 (GENERAL CARE) – A health care facility space in which failure of equipment or a system is likely to cause minor injury of patients, staff, or visitors, as established by health care facility's governing body or its designee.

6.11 PATIENT CARE VICINITY – A health care facility space, within a location intended for the examination and treatment of patients, extending 6 ft (1.8 m) beyond the normal location of the patient bed, chair, table, treadmill, or other device that supports the patient during examination and treatment, and extending vertically to 7 ft 6 in. (2.3 m) above the floor.

6.12 PEDESTAL MOUNTED RPT – A RPT assembly integral to or supported by a column(s) which is in turn provided with a base for stability.

6.13 PORTABLE (Relocatable) – Meets all of the following:

a) Not secured to the building structure unless provided with a securement means that allows the RPT to be removed without the use of tools, and

b) Connected electrically to an electrical source of supply with a power supply cord and attachment plug.

6.14 PRIMARY CIRCUIT – A circuit in which the wiring and components are conductively connected to the AC power interface.

6.15 RECEPTACLE OUTLET – A female contact device mounted within an electrical enclosure to allow a detachable electrical connection of an attachment plug.

6.16 RELOCATABLE POWER TAP (RPT) – An electrical enclosure provided with an attached power supply cord and attachment plug for connection to a permanently installed branch circuit receptacle outlet. The electrical enclosure may be provided with one or more receptacle outlets. The RPT may also be provided in any combination of the following configurations:

a) The electrical enclosure connected to the cord and attachment plug may be supplied with up to six lengths of flexible cord not exceeding 1-1/2 feet in length; each length shall be terminated with a maximum of 3 receptacle outlets within an electrical enclosure or with 3 cord connectors. Refer to 14.1 for overload requirements and 16.7 for interconnecting cord requirements.

b) Provided with supplementary overcurrent protection.

c) Provided with manual or automatic switch(es) such as an integral appliance timer to control all or some of the receptacle outlets.

d) Provided with indicator lights.

e) Provided with temporary mounting means.

f) When provided with three or more receptacle outlets the RPT may be provided with a surge protective device (SPD) or an electromagnetic interference (EMI) filter.

g) A RPT may employ a storage compartment to store hand-held electronic devices and charging equipment such as a cell phone, cell phone charger, and the like, when these devices are not in use.

h) A RPT may employ non-electrical decorative features. The decorative features may include various shapes such as rocks, birds and animals, etc.

i) A RPT may employ an integral cord reel for the power supply cord and attachment plug. The cord reel type feature, in addition to the requirements in this standard, shall also comply with the applicable requirements in the Standard for Cord Reels, UL 355.

j) A RPT may employ telephone equipment and communication circuit protectors.

k) A RPT may employ an antenna discharge unit or provide antenna connections for televisions and video products.

l) When provided with three or more receptacle outlets the RPT may be provided with LED (Light Emitting Diode) Luminaire(s).

m) A RPT may be provided with a wireless charging circuit.

n) A RPT may be extendable as specified in UL 1363 Annex A.

o) A RPT may incorporate batteries as specified in UL 1363 Annex B.

p) Provided with an integral Class 2 lead and mating Class 2 separable interface, or an integral power supply with one or more Class 2 output connector(s).

6.17 RISK OF FIRE – A risk of fire is considered to exist at any two points in a circuit where:

a) The open circuit voltage is more than 30 Vrms (42.4 V peak) and the energy available to the circuit under any condition of load including short circuit, results in a current of 8 A or more after 1 minute of operation; or

b) A power of more than 15 watts can be delivered into an external resistor connected between the two points.

6.18 SUPPLEMENTARY PROTECTOR – A manually resettable device designed to open the circuit automatically on a predetermined value of time versus current or voltage within an appliance or other electrical equipment. It is permitted to be provided with a manual means for opening or closing the circuit.

CONSTRUCTION

7 General

7.1 Only materials that are suitable for the particular use shall be used in a RPT.

7.2 If a RPT employs a decorative or ancillary feature, such as a LED Luminaire, a rock, bird or animal, or a storage compartment, it shall be designed so that the addition of the decorative feature part(s) does not:

a) Interfere with the function or temporary mounting means described in Section 11, Temporary Mounting Means;

b) Interfere with turning the power "on" or "off " using the switch provided on the RPT; or

c) Interfere with an attachment plug from fully seating in the outlet slot(s) of the RPT.

7.3 The base or column of a pedestal mounted RPT is not considered an electrical enclosure if the only electrical component within the base or column is a power supply cord and contains no splices.

7.4 The base or column of a pedestal mounted RPT is considered an electrical enclosure when electrical components other than specified in 7.3 are placed within the base or column.