

D R A F T

SUMMARY

Excludes certain battery charger systems from definition of “battery charger system” for purposes of energy efficiency standards.

A BILL FOR AN ACT

Relating to energy efficiency standards for battery charger systems; amending ORS 469.229.

Be It Enacted by the People of the State of Oregon:

SECTION 1. ORS 469.229 is amended to read:

469.229. As used in ORS 469.229 to 469.261, unless the context clearly requires otherwise:

(1) “À la carte charger” means a battery charger that is individually packaged without batteries, including a multiport charger or a charger with multivoltage capability.

(2) “Automatic commercial ice cube machine” means a factory-made assembly, not necessarily shipped in one package, consisting of a condensing unit and ice-making section operating as an integrated unit with means for making and harvesting ice cubes, and any integrated components for storing or dispensing ice.

(3) “Ballast” means a device used with an electric discharge lamp to obtain necessary circuit conditions for starting and operating the lamp.

(4) “Battery” or “battery pack” means an assembly of one or more rechargeable cells intended to provide electrical energy to a product, in one of the following forms:

(a) A detachable battery that is contained in an enclosure separate from

1 the product and that is intended to be removed or disconnected from the
2 product for charging; or

3 (b) An integral battery that is contained within the product and is not
4 removed from the product for charging.

5 (5) “Battery analyzer” means a device:

6 (a) Used to analyze and report a battery’s performance and overall con-
7 dition;

8 (b) Capable of being programmed and performing service functions to re-
9 store capability in deficient batteries; and

10 (c) Not intended or marketed to be used on a daily basis for the purpose
11 of charging batteries.

12 (6) “Battery backup” or “uninterruptible power supply charger (UPS)”
13 means a small battery charger system that is voltage and frequency depend-
14 ent (VFD) and designed to provide power to an end-use product in the event
15 of a power outage, including a UPS as defined in International
16 Electrotechnical Commission (IEC) publication 62040-3 (March 2011 edition),
17 where the output of the VFD UPS is dependent on changes in AC input
18 voltage and frequency and is not intended to provide additional corrective
19 functions, such as those relating to the use of tapped transformers.

20 (7)(a) “Battery charger system” means a battery charger coupled with its
21 batteries, including:

22 (A) Electronic devices with a battery that are normally charged from AC
23 line voltage or DC input voltage through an internal or external power
24 supply and a dedicated battery charger;

25 (B) The battery and battery charger components of devices that are de-
26 signed to run on battery power during part or all of their operations;

27 (C) Dedicated battery systems primarily designed for electrical or emer-
28 gency backup; and

29 (D) Devices whose primary function is to charge batteries, along with the
30 batteries the devices are designed to charge, including chargers for power
31 tool batteries and chargers for automotive, AA, AAA, C, D, or nine-volt re-

1 chargeable batteries and chargers for batteries used in larger industrial mo-
2 tive equipment and à la carte chargers.

3 (b) “Battery charger system” does not mean a battery charger:

4 (A) Used to charge a motor vehicle that is powered by an electric motor
5 drawing current from rechargeable storage batteries, fuel cells or other
6 portable sources of electrical current, including a nonelectrical source of
7 power designed to charge batteries and components thereof, except for bat-
8 tery chargers for forklifts, electric personal assistive mobility devices or
9 low-speed vehicles;

10 (B) That is classified as a Class II or Class III device for human use under
11 the Federal Food, Drug, and Cosmetic Act, as in effect on January 1, 2014,
12 and that requires listing and approval as a medical device;

13 (C) Used to charge a battery or batteries in an illuminated exit sign, in-
14 cluding those products that are a combination illuminated exit sign and
15 emergency egress lighting;

16 (D) With input that is three phases of line-to-line 300 volts root mean
17 square or more and is designed for a stationary power application;

18 (E) That is a battery analyzer; [or]

19 (F) That is a voltage independent or voltage and frequency independent
20 uninterruptible power supply as defined in International Electrotechnical
21 Commission (IEC) publication 62040-3 (March 2011 edition)[.]; **or**

22 **(G) That is contained completely within a larger product and that**
23 **provides power for data storage or for continuity within volatile cache**
24 **or memory systems, that maintains information for system use and**
25 **that is not capable of powering full operation of the larger product**
26 **when external AC line voltage is removed.**

27 (c) The charging circuitry of battery charger systems may or may not be
28 located within the housing of the end-use device. In many cases, the battery
29 may be charged with a dedicated external charger and power supply combi-
30 nation that is separate from the device that runs on power from the battery.

31 (8) “Battery maintenance mode” means the mode of operation when the

1 battery charger system is connected to the main electricity supply and the
2 battery is fully charged and connected to the charger.

3 (9) "Bottle-type water dispenser" means a water dispenser that uses a
4 bottle or reservoir as the source of potable water.

5 (10) "Charge return factor" means the number of ampere-hours returned
6 to the battery during the charge cycle divided by the number of ampere-hours
7 delivered by the battery during discharge.

8 (11) "Combination television" means a system in which a television or
9 television monitor and an additional device or devices, including a video
10 cassette recorder, are combined into a single unit in which the additional
11 device or devices are included in the television casing.

12 (12) "Commercial clothes washer" means a soft mount horizontal-axis or
13 vertical-axis clothes washer that:

14 (a) Has a clothes compartment no greater than 3.5 cubic feet in the case
15 of a horizontal-axis product or no greater than 4 cubic feet in the case of a
16 vertical-axis product; and

17 (b) Is designed for use by more than one household.

18 (13)(a) "Commercial hot food holding cabinet" means an appliance that
19 is a heated, fully-enclosed compartment with one or more solid doors and is
20 designed to maintain the temperature of hot food that has been cooked in a
21 separate appliance.

22 (b) "Commercial hot food holding cabinet" does not include heated glass
23 merchandising cabinets, drawer warmers or cook-and-hold appliances.

24 (14) "Commercial prerinse spray valve" means a handheld device designed
25 and marketed for use with commercial dishwashing equipment and that
26 sprays water on dishes, flatware and other food service items for the purpose
27 of removing food residue prior to their cleaning.

28 (15) "Commercial refrigerators or freezers" means refrigerators, freezers
29 or refrigerator-freezers, smaller than 85 cubic feet of internal volume and
30 designed for use by commercial or institutional facilities for the purpose of
31 storing or merchandising food products, beverages or ice at specified tem-

1 peratures, other than products without doors, walk-in refrigerators or
2 freezers, consumer products that are federally regulated pursuant to 42
3 U.S.C. 6291 et seq. or freezers specifically designed for ice cream. “Commer-
4 cial refrigerators or freezers”:

5 (a) Must incorporate most components involved in the vapor-compression
6 cycle and the refrigerated compartment in a single cabinet; and

7 (b) May be configured with either solid or transparent doors as a reach-in
8 cabinet, pass-through cabinet, roll-in cabinet or roll-through cabinet.

9 (16)(a) “Compact audio product,” also known as a mini, mid, micro or
10 shelf audio system, means an integrated audio system encased in a single
11 housing that includes an amplifier and radio tuner and attached or separable
12 speakers that can reproduce audio from one or more of the following media:

13 (A) Magnetic tape;

14 (B) Compact disc;

15 (C) DVD; or

16 (D) Flash memory.

17 (b) “Compact audio product” does not include products that can be inde-
18 pendently powered by internal batteries, have a powered external satellite
19 antenna or can provide a video output signal.

20 (17) “Compensation” means money or any other valuable thing, regardless
21 of form, received or to be received by a person for services rendered.

22 (18) “Component television” means a television composed of two or more
23 separate components, including separate display device and tuner, marketed
24 as a television under one model or system designation and having one or
25 more power cords.

26 (19) “Computer monitor” means an analog or digital device that is de-
27 signed primarily for the display of computer-generated signals and that is
28 not marketed for use as a television.

29 (20) “Digital versatile disc” or “DVD” means a laser-encoded plastic me-
30 dium capable of storing a large amount of digital audio, video and computer
31 data.

1 (21)(a) “Digital versatile disc player” or “digital versatile disc recorder”
2 means a commercially available electronic product encased in a single
3 housing that includes an integral power supply and for which the sole pur-
4 pose is, respectively, the decoding and the production or recording of
5 digitized video signal on a DVD.

6 (b) “Digital versatile disc recorder” does not include models that have an
7 electronic programming guide function that provides an interactive, on-
8 screen menu of television listings and downloads program information from
9 the vertical blanking interval of a regular television signal.

10 (22) “Electronic programming guide” means an application that provides
11 an interactive, on-screen menu of television listings that downloads program
12 information from the vertical blanking interval of a regular television signal.

13 (23) “High-intensity discharge lamp” means a lamp in which light is
14 produced by the passage of an electric current through a vapor or gas, and
15 in which the light-producing arc is stabilized by bulb wall temperature and
16 the arc tube has a bulb wall loading in excess of three watts per square
17 centimeter.

18 (24)(a) “High light output double-ended quartz halogen lamp” means a
19 lamp that:

20 (A) Is designed for general outdoor lighting purposes;

21 (B) Contains a tungsten filament;

22 (C) Has a rated initial lumen value of greater than 6,000 and less than
23 40,000 lumens;

24 (D) Has at each end a recessed single contact, R7s base;

25 (E) Has a maximum overall length between four and 11 inches;

26 (F) Has a nominal diameter less than three-fourths inch (T6); and

27 (G) Is designed to be operated at a voltage between 110 volts and 200 volts
28 or is designed to be operated at a voltage between 235 volts and 300 volts.

29 (b) “High light output double-ended quartz halogen lamp” does not mean
30 a lamp that is:

31 (A) A tubular quartz infrared heat lamp; or

1 (B) Marked and marketed as a stage and studio lamp with a rated life of
2 500 hours or less.

3 (25) "Illuminated exit sign" means an internally illuminated sign that is
4 designed to be permanently fixed in place to identify a building exit, that
5 consists of an electrically powered integral light source that illuminates the
6 legend "EXIT" and any directional indicators and that provides contrast be-
7 tween the legend, any directional indicators and the background.

8 (26) "Inductive charger system" means a small battery charger system
9 that transfers power to the charger through magnetic or electric induction.

10 (27)(a) "Large battery charger system" means a battery charger system
11 with a rated input power of more than two kilowatts.

12 (b) "Large battery charger system" does not mean a battery charger sys-
13 tem for golf carts.

14 (28) "Metal halide lamp" means a high-intensity discharge lamp in which
15 the major portion of the light is produced by radiation of metal halides and
16 their products of dissociation, possibly in combination with metallic vapors.

17 (29) "Metal halide lamp fixture" means a light fixture designed to be op-
18 erated with a metal halide lamp and a ballast for a metal halide lamp.

19 (30) "Multiport charger" means a battery charger that is capable of si-
20 multaneously charging two or more batteries and that may have multivoltage
21 capability, allowing two or more batteries of different voltages to charge si-
22 multaneously.

23 (31) "No battery mode" means the mode of operation in which a battery
24 charger is connected to the main electricity supply and the battery is not
25 connected to the charger.

26 (32) "Pass-through cabinet" means a commercial refrigerator or freezer
27 with hinged or sliding doors on both the front and rear of the unit.

28 (33) "Portable electric spa" means a factory-built electric spa or hot tub
29 supplied with equipment for heating and circulating water.

30 (34) "Power conversion efficiency" means the instantaneous DC output
31 power of the battery charger system divided by the simultaneous utility AC

1 input power.

2 (35) “Probe-start metal halide lamp ballast” means a ballast used to op-
3 erate metal halide lamps that does not contain an igniter and that instead
4 starts metal halide lamps by using a third starting electrode probe in the arc
5 tube.

6 (36) “Reach-in cabinet” means a commercial refrigerator or freezer with
7 hinged or sliding doors or lids, other than roll-in or roll-through cabinets or
8 pass-through cabinets.

9 (37) “Roll-in cabinet” means a commercial refrigerator or freezer with
10 hinged or sliding doors that allow wheeled racks to be rolled into the unit.

11 (38) “Roll-through cabinet” means a commercial refrigerator or freezer
12 with hinged or sliding doors on two sides of the cabinet that allow wheeled
13 racks to be rolled through the unit.

14 (39) “Selected input mode” means the input port selected that the tele-
15 vision uses as a source to produce a visible or audible output and that is
16 required for televisions with multiple possible inputs, including coaxial,
17 composite, S-Video, HDMI and component connectors.

18 (40)(a) “Single-voltage external AC to DC power supply” means a device,
19 other than a product with batteries or battery packs that physically attach
20 directly to the power supply unit, a product with a battery chemistry or type
21 selector switch and indicator light or a product with a battery chemistry or
22 type selector switch and a state of charge meter, that:

23 (A) Is designed to convert line voltage alternating current input into
24 lower voltage direct current output;

25 (B) Is able to convert to only one direct current output voltage at a time;

26 (C) Is sold with, or intended to be used with, a separate end-use product
27 that constitutes the primary power load;

28 (D) Is contained within a separate physical enclosure from the end-use
29 product;

30 (E) Is connected to the end-use product via a removable or hard-wired
31 male or female electrical connection, cable, cord or other wiring; and

1 (F) Has a nameplate output power less than or equal to 250 watts.

2 (b) “Single-voltage external AC to DC power supply” does not include
3 power supplies that are classified as devices for human use under the Federal
4 Food, Drug and Cosmetic Act, 21 U.S.C. 360c.

5 (41) “Small battery charger system” means:

6 (a) A battery charger system with a rated input power of two kilowatts
7 or less.

8 (b) A golf cart battery charger system, regardless of input power or bat-
9 tery capacity.

10 (42) “State-regulated incandescent reflector lamp” means a lamp that is
11 not colored or designed for rough or vibrating service applications, that has
12 an inner reflective coating on the outer bulb to direct the light, that has an
13 E26 medium screw base, that has a rated voltage or voltage range that lies
14 at least partially within 115 to 130 volts and that falls into one of the fol-
15 lowing categories:

16 (a) A bulged reflector or elliptical reflector bulb shape that has a diam-
17 eter that equals or exceeds 2.25 inches; or

18 (b) A reflector, parabolic aluminized reflector or similar bulb shape that
19 has a diameter of 2.25 to 2.75 inches.

20 (43)(a) “Television” means an analog or digital device, including a com-
21 bination television, a television monitor, a component television and any
22 unit marketed as a television, designed for the display and reception of a
23 terrestrial, satellite, cable or Internet protocol or other broadcast or re-
24 corded transmission of analog or digital video or audio signals.

25 (b) “Television” does not mean a computer monitor.

26 (44) “Television monitor” means a television that does not have an
27 internal tuner, receiver or playback device.

28 (45) “Television standby-passive mode” means the mode of operation in
29 which the television is connected to a power source, produces neither sound
30 nor picture but can be switched into another mode with the remote control
31 unit or via an internal signal.

1 (46) “Torchiere” means a portable electric lighting fixture with a reflec-
2 tive bowl that directs light upward so as to produce indirect illumination.

3 (47) “Traffic signal module” means a standard traffic signal indicator,
4 consisting of a light source, a lens and all other parts necessary for opera-
5 tion, that is:

6 (a) Eight inches, or approximately 200 millimeters, in diameter; or

7 (b) Twelve inches, or approximately 300 millimeters, in diameter.

8 (48) “Unit heater” means a self-contained, vented fan-type commercial
9 space heater, other than a consumer product covered by federal standards
10 established pursuant to 42 U.S.C. 6291 et seq. or that is a direct vent, forced
11 flue heater with a sealed combustion burner, that uses natural gas or
12 propane and that is designed to be installed without ducts within a heated
13 space.

14 (49) “USB charger system” means a small battery charger system that
15 uses a universal serial bus (USB) connector as the only power source to
16 charge the battery, and is packaged with an external power supply rated with
17 a voltage output of five volts and a power output of 15 watts or less.

18 (50) “Walk-in refrigerator” and “walk-in freezer” mean a space refriger-
19 ated to temperatures, respectively, at or above and below 32° F that can be
20 walked into.

21 (51) “Water dispenser” means a factory-made assembly that mechanically
22 cools and heats potable water and dispenses the cooled or heated water by
23 integral or remote means.

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