

House Bill 3025

Sponsored by COMMITTEE ON ENERGY AND ENVIRONMENT

SUMMARY

The following summary is not prepared by the sponsors of the measure and is not a part of the body thereof subject to consideration by the Legislative Assembly. It is an editor's brief statement of the essential features of the measure **as introduced**.

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

A BILL FOR AN ACT

1
2 Relating to energy efficiency standards for battery charger systems; amending ORS 469.229.

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

4 **SECTION 1.** ORS 469.229 is amended to read:

5 469.229. As used in ORS 469.229 to 469.261, unless the context clearly requires otherwise:

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

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

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

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

16 (a) A detachable battery that is contained in an enclosure separate from the product and that
17 is intended to be removed or disconnected from the product for charging; or

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

20 (5) "Battery analyzer" means a device:

21 (a) Used to analyze and report a battery's performance and overall condition;

22 (b) Capable of being programmed and performing service functions to restore capability in defi-
23 cient batteries; and

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

25 (6) "Battery backup" or "uninterruptible power supply charger (UPS)" means a small battery
26 charger system that is voltage and frequency dependent (VFD) and designed to provide power to an
27 end-use product in the event of a power outage, including a UPS as defined in International
28 Electrotechnical Commission (IEC) publication 62040-3 (March 2011 edition), where the output of the
29 VFD UPS is dependent on changes in AC input voltage and frequency and is not intended to provide
30 additional corrective functions, such as those relating to the use of tapped transformers.

31 (7)(a) "Battery charger system" means a battery charger coupled with its batteries, including:

NOTE: Matter in **boldfaced** type in an amended section is new; matter [*italic and bracketed*] is existing law to be omitted.
New sections are in **boldfaced** type.

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

3 (B) The battery and battery charger components of devices that are designed to run on battery
4 power during part or all of their operations;

5 (C) Dedicated battery systems primarily designed for electrical or emergency backup; and

6 (D) Devices whose primary function is to charge batteries, along with the batteries the devices
7 are designed to charge, including chargers for power tool batteries and chargers for automotive,
8 AA, AAA, C, D, or nine-volt rechargeable batteries and chargers for batteries used in larger indus-
9 trial motive equipment and à la carte chargers.

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

11 (A) Used to charge a motor vehicle that is powered by an electric motor drawing current from
12 rechargeable storage batteries, fuel cells or other portable sources of electrical current, including
13 a nonelectrical source of power designed to charge batteries and components thereof, except for
14 battery chargers for forklifts, electric personal assistive mobility devices or low-speed vehicles;

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

18 (C) Used to charge a battery or batteries in an illuminated exit sign, including those products
19 that are a combination illuminated exit sign and emergency egress lighting;

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

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

23 (F) That is a voltage independent or voltage and frequency independent uninterruptible power
24 supply as defined in International Electrotechnical Commission (IEC) publication 62040-3 (March
25 2011 edition)[.]; or

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

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

34 (8) “Battery maintenance mode” means the mode of operation when the battery charger system
35 is connected to the main electricity supply and the battery is fully charged and connected to the
36 charger.

37 (9) “Bottle-type water dispenser” means a water dispenser that uses a bottle or reservoir as the
38 source of potable water.

39 (10) “Charge return factor” means the number of ampere-hours returned to the battery during
40 the charge cycle divided by the number of ampere-hours delivered by the battery during discharge.

41 (11) “Combination television” means a system in which a television or television monitor and
42 an additional device or devices, including a video cassette recorder, are combined into a single unit
43 in which the additional device or devices are included in the television casing.

44 (12) “Commercial clothes washer” means a soft mount horizontal-axis or vertical-axis clothes
45 washer that:

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

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

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

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

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

12 (15) "Commercial refrigerators or freezers" means refrigerators, freezers or refrigerator-freezers,
 13 smaller than 85 cubic feet of internal volume and designed for use by commercial or institutional
 14 facilities for the purpose of storing or merchandising food products, beverages or ice at specified
 15 temperatures, other than products without doors, walk-in refrigerators or freezers, consumer pro-
 16 ducts that are federally regulated pursuant to 42 U.S.C. 6291 et seq. or freezers specifically designed
 17 for ice cream. "Commercial refrigerators or freezers":

18 (a) Must incorporate most components involved in the vapor-compression cycle and the refrig-
 19 erated compartment in a single cabinet; and

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

22 (16)(a) "Compact audio product," also known as a mini, mid, micro or shelf audio system, means
 23 an integrated audio system encased in a single housing that includes an amplifier and radio tuner
 24 and attached or separable speakers that can reproduce audio from one or more of the following
 25 media:

26 (A) Magnetic tape;

27 (B) Compact disc;

28 (C) DVD; or

29 (D) Flash memory.

30 (b) "Compact audio product" does not include products that can be independently powered by
 31 internal batteries, have a powered external satellite antenna or can provide a video output signal.

32 (17) "Compensation" means money or any other valuable thing, regardless of form, received or
 33 to be received by a person for services rendered.

34 (18) "Component television" means a television composed of two or more separate components,
 35 including separate display device and tuner, marketed as a television under one model or system
 36 designation and having one or more power cords.

37 (19) "Computer monitor" means an analog or digital device that is designed primarily for the
 38 display of computer-generated signals and that is not marketed for use as a television.

39 (20) "Digital versatile disc" or "DVD" means a laser-encoded plastic medium capable of storing
 40 a large amount of digital audio, video and computer data.

41 (21)(a) "Digital versatile disc player" or "digital versatile disc recorder" means a commercially
 42 available electronic product encased in a single housing that includes an integral power supply and
 43 for which the sole purpose is, respectively, the decoding and the production or recording of digitized
 44 video signal on a DVD.

45 (b) "Digital versatile disc recorder" does not include models that have an electronic program-

1 ming guide function that provides an interactive, on-screen menu of television listings and down-
 2 loads program information from the vertical blanking interval of a regular television signal.

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

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

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

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

12 (B) Contains a tungsten filament;

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

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

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

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

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

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

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

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

22 (25) “Illuminated exit sign” means an internally illuminated sign that is designed to be perma-
 23 nently fixed in place to identify a building exit, that consists of an electrically powered integral light
 24 source that illuminates the legend “EXIT” and any directional indicators and that provides contrast
 25 between the legend, any directional indicators and the background.

26 (26) “Inductive charger system” means a small battery charger system that transfers power to
 27 the charger through magnetic or electric induction.

28 (27)(a) “Large battery charger system” means a battery charger system with a rated input power
 29 of more than two kilowatts.

30 (b) “Large battery charger system” does not mean a battery charger system for golf carts.

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

34 (29) “Metal halide lamp fixture” means a light fixture designed to be operated with a metal
 35 halide lamp and a ballast for a metal halide lamp.

36 (30) “Multiport charger” means a battery charger that is capable of simultaneously charging two
 37 or more batteries and that may have multivoltage capability, allowing two or more batteries of dif-
 38 ferent voltages to charge simultaneously.

39 (31) “No battery mode” means the mode of operation in which a battery charger is connected
 40 to the main electricity supply and the battery is not connected to the charger.

41 (32) “Pass-through cabinet” means a commercial refrigerator or freezer with hinged or sliding
 42 doors on both the front and rear of the unit.

43 (33) “Portable electric spa” means a factory-built electric spa or hot tub supplied with equipment
 44 for heating and circulating water.

45 (34) “Power conversion efficiency” means the instantaneous DC output power of the battery

1 charger system divided by the simultaneous utility AC input power.

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

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

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

9 (38) "Roll-through cabinet" means a commercial refrigerator or freezer with hinged or sliding
10 doors on two sides of the cabinet that allow wheeled racks to be rolled through the unit.

11 (39) "Selected input mode" means the input port selected that the television uses as a source
12 to produce a visible or audible output and that is required for televisions with multiple possible in-
13 puts, including coaxial, composite, S-Video, HDMI and component connectors.

14 (40)(a) "Single-voltage external AC to DC power supply" means a device, other than a product
15 with batteries or battery packs that physically attach directly to the power supply unit, a product
16 with a battery chemistry or type selector switch and indicator light or a product with a battery
17 chemistry or type selector switch and a state of charge meter, that:

18 (A) Is designed to convert line voltage alternating current input into lower voltage direct cur-
19 rent output;

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

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

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

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

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

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

29 (41) "Small battery charger system" means:

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

31 (b) A golf cart battery charger system, regardless of input power or battery capacity.

32 (42) "State-regulated incandescent reflector lamp" means a lamp that is not colored or designed
33 for rough or vibrating service applications, that has an inner reflective coating on the outer bulb
34 to direct the light, that has an E26 medium screw base, that has a rated voltage or voltage range
35 that lies at least partially within 115 to 130 volts and that falls into one of the following categories:

36 (a) A bulged reflector or elliptical reflector bulb shape that has a diameter that equals or ex-
37 ceeds 2.25 inches; or

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

40 (43)(a) "Television" means an analog or digital device, including a combination television, a
41 television monitor, a component television and any unit marketed as a television, designed for the
42 display and reception of a terrestrial, satellite, cable or Internet protocol or other broadcast or re-
43 corded transmission of analog or digital video or audio signals.

44 (b) "Television" does not mean a computer monitor.

45 (44) "Television monitor" means a television that does not have an internal tuner, receiver or

1 playback device.

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

5 (46) "Torchiere" means a portable electric lighting fixture with a reflective bowl that directs
6 light upward so as to produce indirect illumination.

7 (47) "Traffic signal module" means a standard traffic signal indicator, consisting of a light
8 source, a lens and all other parts necessary for operation, that is:

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

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

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

15 (49) "USB charger system" means a small battery charger system that uses a universal serial
16 bus (USB) connector as the only power source to charge the battery, and is packaged with an ex-
17 ternal power supply rated with 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 refrigerated to temperatures,
19 respectively, at or above and below 32° F that can be walked into.

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

22