Protocol 328-O

Battery or Transformer Operated Wine Opener

Test Property	Test Method	Samples	Test Principle/Requirements	Rating (Section or Executive Summary which failed items can be referenced)
LABELING				
Labeling / Packaging Review	FPLA 16 CFR 500 & 19 CFR 134	All Samples	Should be legibly marked with the following information: - Distributor's name, trademark or other means of identification of the manufacturer or packer & address (City, State & Zip) - Product identification - Net quantity of the contents in terms of weight, measure or numerical count (Metric & US Standard) or a combination so as to give accurate information and facilitate value comparison by the consumer - Country of origin (if imported)	
Marking on Packing Box	Visual Check	All Samples	"Household Use Only" shall be marked legibly on the retail packaging. The marking shall be located on one or more sides of the outside surface.	
Verify Label Claims	Visual Check	All Samples	The labeling must comply and valid with all claims.	Claim: Actual:
FCC Labeling & Instructions (If applicable)	FCC Rules	All Samples	Shall comply with the applicable requirements of FCC rules if regulated. Must be listed if product is a digital device with power consumption > 6nW; and contains electronics with clock frequency greater than 9 kHz (with provision for connecting to ac mains even via ac transformer) or greater than 1.705MHz (for battery operated item).	
Adult Tracking Label: **If space limitations exist, contact Kohl's Quality Assurance & Product Integrity teams to discuss minimum required information: (quality.assurance@kohls.com).**	Kohl's Requirement	All Samples	Kohl's Assigned Factory Number Manufacture Date (Month/Year) UPC #	
Import Permit (For Natural Materials Only)	US Department of Agriculture Animal and Plant Health Inspection Service (APHIS), Plant Protection and Quarantine (PPQ)	All Samples	Product shall not have prohibited materials present per US Department of Agriculture, Animal and Plant Health Inspection Service (APHIS), Plant Protection and Quarantine (PPQ) Documentation and/ or proper permit(s) for specific product shall be supplied along with Testing Request form and samples. Permit information may be found at: https://www.aphis.usda.gov/wps/portal/aphis/home/ It is the vendor's responsibility for the compliance to relevant requirements.	
Instruction Manual	Document Review	1 Sample	Shall provide written instructions regarding use, safety and maintenance.	

Power Input Marking (Applicable if has provisions of connecting external power e.g. ac transformer)	Visual check	1 Sample	For each of external power input connection, the following information shall be marked: Rated input voltage or voltage ranges Nature of input (e.g. a.c., d.c.), and if of a.c. voltage, the rated frequency Maximum input current / power value which the unit will be drawn from the supply source	
Durability of Marking	Kohl's TM 50	1 Sample	Rub marking gently by hand with a damp cloth for the below defined seconds, followed by a cloth wetted slightly with petroleum spirit for another same timing. Marking shall remain legible. Tier 1: 15 seconds Tier 2: 20 seconds Tier 3: 25 seconds	
Accessories	Document Review	All Samples	All accessories shall be included as described in the user's manual and provided with instructions for proper use.	
*Reese's Law Supplemental Protocol	Refer to Protocol 1700	All Samples	All samples shall be reviewed against the requirements of Reese's Supplement Protocol to determine if additional testing or labeling is required	
PRODUCT WITH REPLACEABLE BATTERY				
Battery Compartment	Visual Check	All Samples	Product employing user replaceable battery shall be permanently marked with : - Size of battery - Polarity of battery - Voltage of battery	
Products that use standard batteries; sizes AAA, AA, C, D or 9V:	Actual Use	All	The battery compartment door/cover must be secured with screw. Door/cover shall be opened and closed, and the battery removed and replaced, for a total of 5 cycles. The process shall simulate replacement according to the manufacturer's instructions. The screw(s) is to be loosened and then tightened by means of a suitable screwdriver. Battery door(s) and screws shall be still functional when tested as follows: Attach battery door with each screw tightened to 2 in-lbf and held for 10 seconds. Detach and perform test a total of 5 open / close cycles. Screw must stay secured in door when removed. There shall be no loss of functionality of the battery compartment door/cover. Record reasons for failure and take digital image of damage.	
Packaging / Instructions	ANSI C18.1M Part 2-2017 (modified)	All Samples	For products with more than one battery, must include: "Do Not Mix Old And New Batteries. Do Not Mix Alkaline, Standard (Carbon - Zinc), Or Rechargeable (Nickel - Cadmium) Batteries"	
	Visual Check	All Samples	Should provide use, care, and maintenance information, as well as disposal of batteries information	

Rechargeable Batteries (If Applicable)	Battery Act	All Samples	Rechargeable cell batteries must be labeled  Nickel-Cadmium Batteries Must Be Labeled “Nickel-Cadmium” or “Ni-Cd,” with the phrase “BATTERY MUST BE RECYCLED OR DISPOSED OF PROPERLY.” Regulated Lead-Acid Batteries Must Be Labeled “Pb” or with words “LEAD, “RETURN”, and “RECYCLE” and if the regulated batteries are sealed, the phrase “BATTERY MUST BE RECYCLED.” Non Removable Regulated Lead-Acid Batteries Must Be Labeled With the Phrase “CONTAINS SEALED LEAD BATTERY. BATTERY MUST BE RECYCLED.”	
PRODUCT WITH AC TRANSFORMER				
Regulatory Listing Mark	Visual Check	All Samples	Shall have valid NRTL’s Listing mark , e.g. UL , ETL or equivalent	
Safety Agency Listing Verification	Visual Check	1 sample	Verify acceptable Safety Agency Listing by contacting Listing Agency with samples listing number, manufacturer, model number, and/or agency control number.	
Marking on adaptor	Visual Check Section 50, 51, 52 of UL 1310	1 sample	The following markings shall be legible and readily visible after the appliance is installed: - Manufacturer name or trademark - Date code - Model or type reference - Electrical rating - Warning and Caution marking (if applicable)	
California Energy Commission – Appliance Energy Efficiency Compliance Regulation CEC-400	Visual Check	All Samples	Covered products shall comply with the regulations and/or listed in the CEC Appliance Efficiency Database. Valid test report issued by authorized lab shall be provided for verifying. The products shall comply with the requirements of marking by the CEC-400 regulations. The CEC Appliances Efficiency Database: https://cacertappliances.energy.ca.gov/Pages/ApplianceSearch.aspx The product shall be marked with : - Manufacturer name or trademark - Model no. - Date or date code of manufacturer	

CEC marking for Battery Charger	CEC-400 Section 1607	All Samples	The unit shall be marked with the following: Manufacturer's name or brand name or trademark Model number Date of manufacture with at least year and month The characters "BC" inside of a circle on the nameplate that houses the charging terminals, or on the retail packaging, and on the cover page of the instruction manual if included.  Effective dates for different categories of Battery Chargers: small consumer battery chargers manufactured on or after February 1, 2013 large battery chargers and certain USB-based small consumer battery chargers manufactured on or after January 1, 2014 non-consumer battery chargers manufactured on or after January 1, 2017 Battery charger should be listed by CEC appliance database with the sample's brand name and model number. https://cacertappliances.energy.ca.gov/Pages/ApplianceSearch.aspx	
For External power supplies efficiency – labeling (if applicable)	10 CFR 430	All Samples	EPS shall be listed in DOE Compliance Certification Database: http://www.regulations.doe.gov/certification-data/ In additional, EPS shall be marked with the applicable Efficiency Level: Direct operation EPS: VI or above Indirect operation class A EPS: IV or above	
For External power supplies (if applicable)	10 CFR 430	All Samples	Efficiency and No load power use shall comply with the requirements of 10 CFR 430.32 (W). Exceptions: Direct Operation, AC-DC, Low-Voltage with nameplate output voltage less than 3 voltage and nameplate output current greater than or equal to 1,000 milliamps and charges the battery of a product that is fully or primarily motor operated An external power supply that requires Federal Food and Drug Administration (FDA) listing and approval as a medical device in accordance with section 513 of the Federal Food, Drug, and Cosmetic Act (21 U.S. C. 360(c)) An AC- to- AC external power supply with a nameplate output of 20 watts or more, that is certified to the Secretary as being designed to be connected to a security or life safety alarm or surveillance system component. In lieu of testing, test report can be submitted if dated within two years.	

DOE Requirement for Battery chargers	10 CFR § 429.39 § 430.2 § 430.23(aa) § 430.32(z) 81 FR 38266	All Samples	1. Battery chargers manufactured or imported into the USA on or after June 13, 2018, must have a unit energy consumption (UEC) less than or equal to the prescribed "Maximum UEC" standard when using the equations for the appropriate product class and corresponding rated battery energy See the table in 10 CFR § 430.32(z). 2. Product listing shall be verified in DOE Compliance Certification Management System ("CCMS"). http://www.regulations.doe.gov/certification-data/	
PHYSICAL CHARACTERISTICS				
Dimensions (L×W×H) (In.)	FPLA/ UPLR	3 Samples	As Claimed/ measured (+3%/ - 0%)	Claim: Actual:
CONSTRUCTION QUALITIES				
Kohl's Workmanship Review	Visual Check /Actual Use	1 Sample	- All components shall be provided as claimed and shall not be deformed or fractured. - All hardware shall be provided - All welds shall be smoothly finished and free from pits and splatter - All components shall not contain any burrs or sharp edges (test by touch or sight) - Product shall not contain any loose components or unsecured fastening where rigidity is required	
Riveted Connections	Visual Check	1 Sample	Rivet head shall be full, no burrs or flash.	
Welded Connections	Std. Measure/ Visual Check	1 Sample	Welding shall be good. Connection shall withstand below defined pulling force for 1 minute. Tier 1: 15lbs Tier 2: 20lbs	
Thread Connection	Std. Measure/ Visual Check	1 Sample	Threaded connection shall be good. Screws shall withstand a torque of below force for 1 minute Tier 1 & Tier 2: 0.5 Nm Connection shall also withstand the below defined pulling test for 1 minute. Tier 1 & Tier 2: 15lbs	
Solder Connection and Quick Connection	Std. Measure/ Visual Check	1 Sample	Soldered lead wires or wire nut shall withstand the below pulling force for 1 minute. Tier 1: 5lbs Tier 2: 10lbs	
Unit Stability	Visual Check	1 Sample	The appliance shall not exhibit any tilting or rocking when set upon a flat surface.	
PERFORMANCE				

Normal Operation	Actual Use	1 Sample	The appliance shall functiona s intended after the number of cycles of intended operation. Tier 1: 5 cycles Tier 2: 10 cycles	
Humidity Test	Kohl's TM 31	1 Sample	No failure at 95% RH at 100 F (38 C) for below defined hours Tier 1 & Tier 2: 24 hours	
Switch (If applicable)	Actual Use	1 Sample	Shall be no lossening or failure of the switch after the below number of times of operation Tier 1: 100 times Tier 2: 150 times	
Temperature test	Digital Thermometer	1 Sample	Report highest temperature (all accessible surface, battery surface and power adaptor, if any) after 4 hours of continuous use.	
Effect of overcharging (Applicable if contains rechargeable battery which can be recharged inside the product)	Actual use	1 Sample	A fully discharged unit is being recharged by external power supply source (e.g. ac power (if provided) or dc power) for a period of 7 days (168 hours). During the charging period the unit shall not emit flame, smoke or causing explosion of battery or leakage of electrolyte.	
#Claim Verification (If Claimed)	Visual Check / Actual Use	1 Sample	All designs and features must conform to actual claim	Claim:
ANALYTICAL				
* Lead In Scrapable Surface Coating	ASTM E1613/E1645	All Samples	≤90 ppm (0.0090% by weight).	
* CA Prop 65	Refer to Protocol 1300	All Samples	All shall be reviewed against the requirements of California Proposition 65 to determine if additional testing or labeling is required.	
Lead in PVC Power Cord (Test only if No Prop 65 Warning On Package)	EPA SW846 Method #3050	1 Sample	If ≥ 0.020%Pb by weight (200ppm), then the Cal Prop 65 warning should be present	
*Leachable Lead And Cadmium On Food Contact Surface (FDA)	AOAC 973.32 ASTM C738	6 Samples	Pb: < 1.0 ppm (large hollowware) < 2.0 ppm (small hollowware) < 0.5 ppm (cups / mugs / pitchers) < 3.0 ppm (flatware) Cd: < 0.25 ppm (large hollowware) < 0.5 ppm (small hollowware) < 0.5 ppm (flatware)	
*Toxicology (Food Contact Plastic Component)	21 CFR 175/176/177	1 Sample	Must comply with the applicable requirements of FDA.	
Refer to protocol Hardlines Regulatory Supplement for additional State & Federal Regulations	Refer to Protocol 1800	All Samples	All samples shall be reviewed against the requirements of the Hardlines Regulatory Supplemental Protocol (State Regulation Only) to determine if additional testing or labeling is required	
STAINLESS STEEL (IF CLAIMED & FOOD CONTACT ONLY)				

* Stainless Steel Composition (Applicable To Food Contact Surfaces Only)	Acid Digestion / ICP / ASTM E1019	1 Sample	Stainless steel composition (Carbon, Manganese, Phosphorus, Sulfur, Silicon, Chromium, Nickel, Nitrogen, and Molybdenum) test is to be conducted. However, formulations with less than 16% Chromium may still be acceptable. In these cases, the lab should contact the FDA for review and approval. A copy of the approval is to be kept on file by the lab for future reference.	
* Stainless Steel - Resistance To Corrosion (Applicable if result of composition test does not meet the claimed specification)	ASTM B117 (Mod.)	1 Sample	Shall withstand 48 Hours in 1% Salt Spray (Fog) with no major visual change, pitting or corrosion. Modification = % of salt spray	
Claimed Chromium content ≥ 16%				
*FDA – GRAS Stainless Steel (Applicable To Food Contact Surfaces Only)	Acid Digestion / ICP / ASTM E1019	1 Sample	Shall meet Stainless Steel Claim (Chromium and Nickel content) AND	
* Stainless Steel Composition (Applicable if product does not comply GRAS test)	Acid Digestion / ICP / ASTM E1019	1 Sample	Stainless steel composition (Carbon, Manganese, Phosphorus, Sulfur, Silicon, Chromium, Nickel, Nitrogen, and Molybdenum) test is to be conducted. However, formulations with less than 16%	
* Stainless Steel - Resistance To Corrosion (Applicable if product does not comply GRAS test)	ASTM B117 (Mod.)	1 Sample	Shall withstand 48 Hours in 1% Salt Spray (Fog) with no major visual change, pitting or corrosion. Modification = % of salt spray	
PRICING AND ADDITIONAL NOTE: ***Please refer to Kohl's preferred third party labs for individual pricing and sample size**				
In addition to this protocol, any products designed for, intended for or appealing primarily to children, requires additional testing per Kohl's Testing Protocol # 601.				

Protocol Version	Description of Change	Revised by/Date	Approved by/Date
328-A	Initial Release	Martin Wong July 27, 2012	Ro Jain Aug 7, 2012
328-B	Separate the test line of Prop 65 to supplementary protocol Added Corrosion Test (48 hours) FDA – GRAS Stainless Steel Test Updated	John Wong July 18, 2013	Rufus Moberly July 23, 2013
328-C	Differentiate the performance rating of the below tests to Tier 1/Tier 2/Tier 3 Adjusted package price	Jeetendra Shelatkar Oct 4, 2013	Ro Jain Dec 16, 2013
328-D	Updated lead content pricing	Candy Chan Jul 30, 2014	Jeetendra Shelatkar Aug 4, 2014
328-E	Renamed in-house methods	Candy Chan Sep 4, 2014	Elaine Smaczniak Oct 30, 2014
328-F	Renamed in-house methods	Quincy Chan Mar 5, 2015	Elizabeth Armstrong Mar 5, 2015
328-G	Update the requirement of CEC, and add the test item of DOE	Elizabeth Armstrong March 15, 2016	Jeetendra Shelatkar March 15, 2016
328-H	Update the requirement of CEC and DOE Added the test item of CEC marking for battery charger system	Jerry Chen Mar. 23, 2016	Jeetendra Shelatkar March 23, 2016
328-I	Updated Prop 65 Warning – New Verbiage	Teana Robinette July 30, 2018	Teana Robinette July 30, 2018
328-J	Added Adult tracking label requirements and import permit requirements.	Charlene Swanson July 7, 2020	Charlene Swanson July 7, 2020
328-K	Updated packaging/instructions and added DOE requirements for battery chargers	Charlene Swanson November 2020	Charlene Swanson November 2020

328-L	Added Reese's Law Supplemental Protocol test line under Label Verification	Kevin Makocy October 2023	Kevin Makocy October 2023
328-M	Removed Tier 3 testing requirements	Charlene Swanson October 2024	Charlene Swanson October 2024
328-N	Added 1800 Hardlines Regulatory Supplement for additional State & Federal Regulations	February 2025	February 2025
328-O	Added requirement for battery compartment to be secured.	Kate Anderson December 2025	Kate Anderson December 2025