

UNDERWRITERS LABORATORIES INC. CERTIFICATION REQUIREMENT DECISION

This Certification Requirement Decision is prepared by UL LLC. It is normative for the applicable UL Product Certification Program(s); however, it is currently not part of the UL Standard(s) referenced below.

Product Category (CCN): DMLW

Standard Number: UL 1017

Standard Title: Standard for Vacuum Cleaners, Blower Cleaners, and Household Floor Finishing Machines

Edition Date: September 15, 2017

Edition Number: 10

Section / Paragraph Reference: 7.6

Subject: Battery-Operated Appliances: Exceeding the Power Supply Output Rating

DECISION:

7.6 With respect to Indent E of Annex D of UL 2595 / CSA C22.2 No. 0.23, the temperature limits listed in Table 9.1 of UL 2595 are considered suitable. A charger or power unit with a measured output that exceeds its marked rating need not comply with Clause 18.9 of UL 2595/CSA C22.2 No. 0.23 if temperatures within the charger or power unit do not exceed allowable limits as specified in Table 9 of UL 1017 when charging a fully discharged battery until it is fully charged and with the appliance off.

RATIONALE FOR DECISION:

When the power supply is evaluated to the applicable power supply standards, the temperature test is conducted with the output continuously loaded to the rated load until temperatures stabilize. This testing determines the suitability of the rating of the supply for an assumed continuous load. When charging batteries, the power supply or charger load is not constant or continuous. The load decreases as the battery charges. If the power supply or charger output ratings are exceeded, but the temperatures within the charger on parts such as the transformer winding, printed wiring boards, etc are not excessive, the component is considered suitable for the application. These requirements represent the practice allowed by a previous edition of UL 1017.

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