

Learn More About UL 60950-1 White Paper

Overview

The American National Standards Institute (ANSI) safety standard for Information Technology Equipment (ITE) is UL 60950-1. This standard specifies requirements intended to reduce risks of fire, electric shock or injury for the user who may come into contact with the equipment. Bretford® Store & Charge products fit squarely within the standard's target requirements.

The UL 60950-1 standard is applicable to ITE designed for use as telecommunication terminal equipment and network infrastructure equipment, regardless of the source of power. The UL 60950-1 standard and tests take into account not only normal operating conditions of the

equipment, but also likely fault conditions, consequential faults, foreseeable misuse and external influences such as temperature, altitude, pollution, moisture, as well as over voltages on a main supply, telecom network or cable network.

The UL 60950-1 standard is also applicable to components and sub-assemblies such as power supplies, power strips and timers intended for incorporation in ITE. It is not expected that such components and sub-assemblies comply with every aspect of the standard, provided that the complete ITE, incorporating such components and sub-assemblies, fully complies with the standard.

Bretford Safety Certifications

Bretford pursues the UL and ETL (Intertek) Marks for our entire Store & Charge product line to ensure the entire "system" is safe for use by our customers and in the classroom. Application of the UL 60950-1 standard is intended to reduce the risk of injury or damage due to the following conditions.

- Electric shock and fire
- Energy related hazards
- Heat related hazards
- Mechanical hazards
- Electromagnetic Capability (EMC) and Electromagnetic Interference (EMI) radiation
- Chemical hazards

A third-party Nationally Recognized Testing Lab (NRTL) tests for flammability, shock hazards, surge protection, stability, and durability. UL evaluates everything from circuit boards to wires, relay to capacitors, and metal to plastics.

Bretford chose the most globally recognizable testing labs, UL and Intertek. They offer global market access with recognized listing marks such as cULus, cETLus, and CE.

Bretford Store & Charge Products Conform to the following Global Safety Standards

US Standards:

UL 60950-1 for Information and Technology Equipment

Canadian Standards:

CSA C22.2 No. 60950-1-07 for Information Technology Equipment

International Standards:

IEC60950-1 Safety of Information Technology Equipment

Nationally Recognized Testing Labs used by Bretford



UL LLC
ul.com



Intertek / ETL
intertek.com



CE marking
gov.uk/ce-marking

Exhibit 1: Bretford Compliance Certificate from UL

CERTIFICATE OF COMPLIANCE

Certificate Number	20140212-E237015
Report Reference	E237015-A29-UL
Issue Date	2014-FEBRUARY-12

Issued to: BRETFORD MFG INC
11000 SEYMOUR AVE
FRANKLIN PARK IL 60131

This is to certify that representative samples of INFORMATION TECHNOLOGY EQUIPMENT INCLUDING ELECTRICAL BUSINESS EQUIPMENT
AC Charging Cabinet, models CHGCAB10YY-XXXXX (see GPI 2 for nomenclature).

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

Standard(s) for Safety: Standard for Information Technology Equipment - Safety - Part 1: General Requirements, UL 60950-1 and CSA C22.2 No. 60950-1-07.

Additional Information: See the UL Online Certifications Directory at www.ul.com/database for additional information

Only those products bearing the UL Listing Mark for the US and Canada should be considered as being covered by UL's Listing and Follow-Up Service meeting the appropriate requirements for US and Canada.
The UL Listing Mark for the US and Canada generally includes: the UL in a circle symbol with "C" and "US" identifiers; the word "LISTED"; a control number (may be alphanumeric) assigned by UL; and the product category name (product identifier) as indicated in the appropriate UL Directory.
Look for the UL Listing Mark on the product.

William R. Carney
William R. Carney, Director, North American Certification Programs
UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at customer@ul.com.

Verifying Product Certification

Whichever product you choose, regardless of brand, be sure to select one which has been certified to UL 60950-1. To ensure the product you're choosing has been certified to ANSI/UL 60950-1, ask your vendor or manufacturer these questions:

Can you provide the Certificate for this product?

- UL – Certificate of Compliance
- ETL – Certificate of Conformity
- CSA – Certificate of Compliance
- TUV – Certificate of Conformity

Which Nationally Recognized Testing Lab tested the product?

Is your cart LISTED to UL 60950-1? Check the appropriate online directory to be sure the whole device is LISTED, and not just components.

- UL Online Certification Directory
- Intertek Product Directories
- CSA Certified Product Listings
- TUV – Certificate Database

The appropriate online directory will show the product model number as LISTED or certified to the safety standard. For example, see this UL record, showing a selection of Bretford products that are LISTED to UL 60950-1:

UL ONLINE CERTIFICATIONS DIRECTORY [Home](#) [Quick Guide](#) [Contact Us](#) [UL.com](#)

NWQG.E237015
Information Technology Equipment Including Electrical Business Equipment

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Information Technology Equipment Including Electrical Business Equipment

[See General Information for Information Technology Equipment Including Electrical Business Equipment](#)

BRETFORD MFG INC E237015
11000 SEYMOUR AVE
FRANKLIN PARK, IL 60131 USA

AC Charging Cabinet, Model(s) CHGCAB10YY-XXXXX (a)
Accessory - Power Manager Module, Model(s) 018-0480, 018-0516
Accessory Main Power Unit, Model(s) 018-0421
Accessory Power Distribution Unit for use in Certified ITE, Model(s) 018-0225, 018-0267, 018-0525, 018-0268, 018-0301, 018-0472
018-0520, 018-0521, 018-0522, 018-0523, 018-0524

In addition, the vendor or manufacturer should be able to provide their compliance certificate for a particular product. This certificate shows that a particular NRTL tested and certified the product, in its entirety, to UL 60950-1 (see exhibit 1).

Conclusion

UL 60950-1 provides organizations with a safety standard they can rely on to help provide a safe working and learning environment for their employees, students, and users. Whichever store and charge products you purchase, please select one that has been certified by a Nationally Recognized Testing Lab to ANSI/UL 60950-1.

