

Health & Safety Guide

LapCabby solutions

The safety of charging stations is of paramount importance to LapCabby. We have been a safety pioneer since the inception of LapCabby being one of the first in the industry to isolate high voltage cabling in our units in 2007. This now much-replicated design feature is just one of many safety aspects LapCabby has introduced to our products, ranging from the simplicity of curved, rubberised corners to innovative surge protection software.

To ensure the safety of our charging trolleys is comprehensive, we test all of our products to the highest safety standards worldwide and test for common safety hazards in-house. Crucially, both the unit components and the full assembled product are tested separately, so we can be sure that all the parts in combination are safe. Moreover, we never self-certify; every product is subjected to stringent third-party testing by the international test house, TUV.

How does LapCabby make its units safe?

Safety is an integral part of the design process. Our ideas and prototypes are always submitted for a design review before they're developed, and we communicate with our test house from initial concept right through to building the end product.

There are numerous features in every LapCabby product that we have introduced especially to maximise safety.

- ✓ Learn about the risks
- ✓ Educate on Health and Safety
- ✓ Highlight testing benefits
- ✓ Trump the Competition

Reasons to Love LapCabby

No matter the device – We have a product to sync, store and transport them. Laptops, Chromebooks, Tablets, BYOD, 1:1, 2:1, 3:1 - we have you covered!

What you see is what you get – Our feature rich products come fully assembled and quite literally ready to roll...

Built from scratch - All our components are designed and manufactured in-house. We don't do off the shelf!

Lifetime warranty – On every LapCabby purchase - we know our design and build quality is unsurpassed!

Rapid delivery times – Our global network of partners spans 44 countries and all major continents - meaning no matter where you are we can get your LapCabby to you. Fast.

Friendly service – Just because we operate across the globe doesn't mean we have compromised our customer centric ethos.

What does LapCabby test?

Air vents

Our units have been designed to naturally keep temperatures down. The combination of air vents with a steel mesh base allows hot air to rise up and out of the vents while drawing cold air into the unit through the bottom.

Temperature sensors

Should the unit still get too warm our temperature sensors make sure it does not overheat. If the temperature within the unit gets to almost 35 degrees, charging will stop. When the temperature drops below 29 degrees it will turn back on. This prevents overheating and damage to any devices and their batteries.

Electrical surge protection

The current drawn from the mains supply when a device is switched on can have an impulse of very high current known as inrush current. In a charging unit containing multiple devices the size of this current can be huge e.g. 380 amps for 0.2 milliseconds and if unimpeded will cause a supply circuit breaker to trip and disconnect the supply. A LapCabby unit minimises this current by booting up power strips sequentially at 2 second intervals and additionally by using unique software only allows switching close to the mains zero crossing reducing the inrush current further. This method also enables all devices to charge simultaneously as opposed to on a cycle.

Static discharge

On rare occasions, some floor coverings and clothing types can cause a static discharge. LapCabby has developed a solution to effectively combat this, which can be attached to the underside of the unit to absorb any static.

Detachable IEC cable

If the power cable of a LapCabby unit is tugged hard it will pop out of it's socket in the back of the unit. Without this feature, if the power supply was hard wired, and the unit was pulled away from the wall while still plugged in, the cable would be ripped out of the back and potentially expose electrical components or cause damage to the unit. The detachable cable can also help to reduce instances of tripping.

Separate electrical compartment

High voltage cabling, which can sometimes run up to 240V, is separated from safe low voltage cabling and isolated in a compartment that is only accessed by a concealed door release. This means that potentially dangerous electricity cables can't be easily accessed by children, and can't be accessed at all when the unit is closed and locked.

Robust design

The design of every LapCabby unit ensures safety both of users and the infrastructure of the building in which it's used. Rounded, rubberised corners reduce the likelihood of damage if the unit bumps into walls, while a combination of sturdy, rubberised wheels with clever construction allow proper weight distribution and easy mobility. Wheels are also lockable, to keep the unit safe while stationary.

**Did you know?
We tested the
new lock on the
UniCabby by
opening and closing
the unit 10,000
times!**

Find the perfect ICT storage solution.
Visit lapcabby.com

What does safety testing involve?

Stability

Our trolleys are filled with devices and tipped at a 10-degree angle, and 250N of force is then applied to the shelving. This ensures that, if there is physical pressure on a unit – for example, from a child pulling on the shelves - it won't fall over on the user and cause injury.

Force

Force is applied to various individual components, particularly electrical components, for a period of time. This replicates real life scenarios and checks that components won't break under pressure.

Electrical components

When building the circuit boards for our units we only use safety-certified components. We check these individually, and further testing by a third party examines both the components and the way in which they work together. Many companies assume that if components have been certified they are safe to combine, but this isn't always the case. So, we test everything together to be sure that components interact correctly.

Temperature

To put designs through their paces we use a worst-case scenario test, filling our biggest unit with completely flat devices and fully charging them. During this process the temperatures of the terminals, cables, the air within the unit, and exposed surfaces of the unit are all checked to see whether additional temperature control methods are needed.

Flammability

The wood in our units must pass vulnerability testing to show it has a certain level of protection against high heat, flame or fire within the unit. The plastic enclosures around electric components, which we manufacture ourselves, from ABS plastic, must meet a high fire retardant standard. These are V1, V2, and V0 standards. The minimum is V1, but LapCabby units meet the highest standard, V0.

Drop tests

Smaller, more portable products such as the Boost+ must be drop tested. This is a two stage process. Firstly the product is dropped from around one metre onto a hard floor. Then a 50mm ball bearing is repeatedly dropped onto the product from the height of one metre. This ensures that, even under extreme circumstances, the casing of the product will remain intact and electrical components won't be exposed.

Did you know?
It takes an hour for each LapCabby / TabCabby to be prepared for despatch.
And 30 minutes for GoCabby / DeskCabby / Boost+

How does LapCabby aim to increase safety?

We use feedback both from TUV and our customers to improve our products, adding in extra features or adjusting our designs to ensure that every aspect of the product is safe before it goes into production. For example, in the DeskCabby and GoCabby ranges we have installed fans to keep the temperature down in response to testing.

In addition, while the standards we test too cover many scenarios, what a customer considers to be a risk will not always be covered by the standards. So, we often make adjustments based on your comments.

Summary

LapCabby units are designed specifically to comply with international safety standards and tested by a third-party testing house. By testing individual components as well as the entire product, we ensure that each component is safe both individually and in combination with others.

'Compliant with' does not always mean 'tested to' or 'certified', but with LapCabby you know that our products have been developed, tested and certified to the highest standards, taking real life scenarios into consideration to minimise risks to the people that use them.

To find out more about our safety measures, contact us using the details below.

LapCabby safety test standards

Our products are tested against a series of international safety standards.

USA: UL 60950-1/R:2011-12

Canada: CAN/CSA C22.2 No. 60950-1/A1:2011-12

Europe: EN 60950-1/A12:2011

LapCabby is also ISO9001 and ISO14001 certified to ensure clear process is effectively delivered across all our operations.

Why is safety testing important?

The risks associated with untested products can be high. Without the correct testing to prevent overheating and ensure temperature control, for example, units can get too hot during charging and potentially catch fire as a result. We want to be wholly confident that every product we ship around the world is safe and free of faults.

E. askus@lapcabby.com

T. 0115 982 1771



LapCabby

New thinking in ICT storage