

Smart Solutions with Advanced Safety

Charging devices with lithium-ion batteries in steel charging lockers can provide secure and convenient storage solutions in various environments, such as schools, offices, and public places. However, this practice carries several risks that need to be assessed and mitigated to ensure safety and reliability. Identifying risks such as fire hazards, thermal runaway, electrical short circuits, ventilation issues, inadequate safety features, and user errors, is essential.

As a manufacturer dedicated to enhancing the safety and reliability of charging lockers, we have implemented several advanced mitigation strategies to address the identified risks associated with charging devices with lithium-ion batteries.

Advanced Locker Design

- **Ventilation Systems:** Our lockers have automated ventilation systems to ensure efficient heat dissipation. This design prevents heat buildup, thereby reducing the risk of overheating and fire.
- **Fire-Resistant Materials:** We use steel to construct our lockers, which are, therefore, naturally inert. This significantly minimises the potential spread of fire, ensuring maximum safety.

Integrated Safety Features

- **Temperature Monitoring:** Each locker has advanced temperature sensors that continuously monitor internal conditions. An automatic shut-off mechanism is activated if temperatures exceed safe levels to prevent overheating and potential fire hazards.
- **Surge Protection:** Our lockers have built-in surge protection to safeguard against electrical faults. This feature protects both the devices and the locker from damage due to power surges.
- **SmartLine™ Charging:** Units fitted with our low voltage SmartLine™ charging provides a single low voltage lead specific to the device make and model, so only one device can be plugged into one bay at any one time, preventing overloading of bays and the number of devices charging.
- **PowaSave®:** Our lockers have a built-in system that automatically places all power supplies into standby to stop charging when devices are fully charged to prevent any possibility of overcharging. No power is delivered to the devices in this mode. PowerSave® can also be scheduled via our software to turn off charging during long periods of no use, such as holidays, weekends, etc.

Regular Maintenance and Quality Assurance

Routine Inspections (UK Customers): We offer a maintenance program as part of our support offering that includes regular inspections to check for wear and tear on charging cables and connectors. This proactive approach helps identify and address potential issues before they escalate. NB: For non-UK customers, we can guide how best to check your equipment periodically and what to do should you find something that is not correct.

Ventilation System Maintenance: Regular maintenance by the customer of the ventilation systems ensures they remain effective in heat dissipation, further enhancing safety.

User Training and Comprehensive Guidelines

- **Clear Instructions:** We provide detailed usage guidelines to educate users on proper charging practices with every locker. This includes the importance of using compatible chargers or our SmartLine™ low voltage charging system and avoiding overloading the lockers.
- **Educational Resources:** We offer additional educational resources, such as videos and user manuals, to reinforce safe usage practices.

Commitment to Quality

- **Reputable Manufacturing:** We adhere to stringent quality control measures throughout the manufacturing process. This commitment to quality ensures that every locker meets the highest safety standards.
- **Compliance with Safety Standards:** Our products comply with all relevant safety standards and certifications, assuring their reliability and safety.

As a leading charging locker manufacturer, we have integrated a comprehensive set of safety and quality measures to mitigate the risks associated with charging devices with lithium-ion batteries. Our advanced design, integrated safety features, regular maintenance recommendations, user education initiatives, and commitment to quality ensure that our lockers provide a safe, reliable, and efficient charging solution.