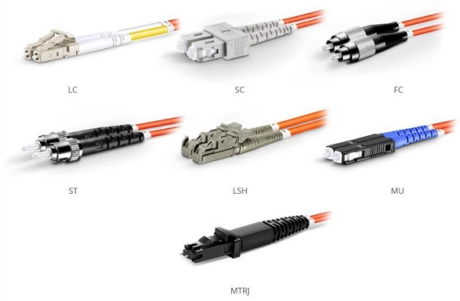
Charging of sanitation power distribution boxes



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Overview

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Key Takeaways

Sanitation power distribution boxes can be charged while maintaining hygiene using sealed designs and optional UV-C sterilization for devices connected to them.Overview

Sanitation power distribution boxes, often used in food, beverage, or healthcare facilities, are designed to distribute power safely in environments where cleanliness is critical. These boxes are typically environmentally sealed to prevent dust, moisture, and contaminants from entering, making them suitable for washdown or sanitary applications (Grainger Industrial Supply) . They can power sensors, actuators, and modules without requiring an external power source, allowing for passive distribution in sensitive areas.

Charging Considerations

While traditional ASI distribution boxes distribute power passively, charging integrated devices (like tablets, phones, or VR headsets) in a sanitary environment requires additional features:

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• UV-C Sterilization Integration: Some charging cabinets or lockers are equipped with UV-C lights to sterilize devices while charging, eliminating bacteria and viruses on surfaces (US20210052755A1, Y2Power, Data Distributing LLC) . Each device receives a controlled UV dose to ensure effective disinfection.

• Multiple Device Charging: Modern sanitizing lockers can charge multiple devices simultaneously, often with PD 20W fast charging cables compatible with most smartphones and tablets (Y2Power) .

• Secure and Durable Design: Lockers and cabinets are made from industrial-grade, wear-resistant materials to withstand frequent use and prevent theft or damage while maintaining hygiene standards .
Practical Implementation
• Placement: These boxes or lockers are often installed in waiting areas, labs, or production floors, allowing users to safely charge devices while ensuring sanitation.

• Environmental Protection: For washdown environments, distribution boxes are sealed against water and dust ingress, ensuring that power distribution remains reliable even during cleaning procedures .

• Device Compatibility: Shelving and cradles can be configured to fit various device sizes, from smartphones to tablets, ensuring both charging and UV-C sanitization are effective .
Summary

Charging sanitation power distribution boxes involves a combination of environmental sealing, passive or active power distribution, and optional UV-C sterilization. These systems allow devices to be charged safely in sanitary environments, protecting both the equipment and users from contamination. For industrial or healthcare applications, selecting boxes with durable, washable materials and configurable charging bays ensures both operational efficiency and hygiene compliance.

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It specifies that the General Contractor will provide temporary water, sanitation, heating, waste removal, site access including snow

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