

ContainerPower Energy Solutions

Mobile base station lithium-ion battery room battery



Overview

What is a telecom battery backup system?

A telecom battery backup system is a comprehensive portfolio of energy storage batteries used as backup power for base stations to ensure a reliable and stable power supply. As we are entering the 5G era and the energy consumption of 5G base stations has been substantially increasing, this system is playing a more significant role than ever before.

How do you store lithium ion batteries in a room?

Racks or trolleys can be used to allow movement of batteries, while walkways between battery stands should remain unobstructed. If your room will house both lead-acid and lithium-ion batteries, it's good practice to physically separate these systems, especially considering their different safety and environmental requirements.

Where should a lithium ion battery be installed?

Intake vents should be located near the floor, while exhaust fans should be installed near the ceiling to remove lighter-than-air hydrogen effectively. For lithium-ion battery systems, thermal management is more important than gas removal. These batteries perform best in ambient temperatures between 15°C and 25°C.

What types of batteries are available?

Our range also includes Power Storage Wall, Stackable Batteries, High Voltage LiFePO4 Batteries and Floor Standing Lithium Batteries. Whether you're looking to power a small communication station or a large-scale telecom network, our products offer the scalability, reliability, and long-lasting performance required for demanding environments.

What should a battery room look like?

Battery rooms must be easy to inspect and maintain. Lighting should be bright

and resistant to corrosion or acid vapours. Install pull-out trays or sliding racks for traction batteries, and provide room to safely top up lead-acid cells. Include cable management systems to prevent tripping hazards or strain on terminals.

Should you separate lithium ion and lead-acid batteries?

If your room will house both lead-acid and lithium-ion batteries, it's good practice to physically separate these systems, especially considering their different safety and environmental requirements. The floor of a battery room must be robust and resistant to chemical corrosion.

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